

|                           |    |     |             |     |     |                 |     |     |     |         |         |     |     |     |
|---------------------------|----|-----|-------------|-----|-----|-----------------|-----|-----|-----|---------|---------|-----|-----|-----|
| 1. Paraseleene_10 + 9     | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 2. Molly_12 + 1           | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 3. Francis47_11 + 19      | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 4. Euphonia_11 + 6        | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 5. BeesKnees_12           | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 6. Thor_11 + 1            | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 7. MmieFeunie_8 + 2       | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 8. Pta2_13 + 6            | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 9. Acme_13 + 8            | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 10. Bigchung1_11 + 5      | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 11. Switzer_12 + 2        | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 12. Aldrich_12 + 7        | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 13. Fushigi_12 + 4        | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 14. Oogway_10             | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 15. Petrucio_11 + 1       | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 16. TheIoniousMonk_13     | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 17. Marchy_10 + 7         | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 18. Lockley_11 + 1        | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 19. A6_09 + 2             | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 20. Ichabod_12 + 1        | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 21. Fajezeel_13 + 1       | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 22. EnzoK_12 + 8          | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 23. Mikhusei_12           | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 24. Agallana_11 + 4       | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 25. Perseus_12 + 8        | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 26. Doom_11 + 5           | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 27. McGuire_12 + 1        | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 28. Applejack_11 + 3      | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 29. SilScum_12            | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 30. Dulcie_10             | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 31. CactusRose_10 + 2     | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 32. Siagathor_12 + 1      | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 33. QTRMcCrisis_11        | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 34. Gwendoluna_13         | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 35. Nerujay_12 + 3        | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 36. Pepe_12 + 5           | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 37. Squee_12              | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 38. Bruns_10 + 2          | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 39. Topgun_11 + 2         | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 40. Rohr_12 + 1           | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 41. GMonster_10 + 1       | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 42. Magnar_11             | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 43. HanShotFirst_11 + 1   | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 44. Target_13 + 1         | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 45. BillKnuckles_12       | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 46. GrecoEtereo_12        | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 47. JackSparrow_12        | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 48. Rufus_12              | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 49. Ashbailer_10          | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |
| 50. IgnatiusPatJac_10 + 1 | 62 | 179 | 213 249 255 | 265 | 299 | 313 319 321 337 | 359 | 379 | 392 | 472 481 | 488 515 | 545 | 594 | 621 |

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|                          |    |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 51: Tripist_12           | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 |     | 594 | 621 |
| 52: WhitSpit_12          | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 53: Bx01_10              | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 54: Seabiscuit_13        | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 55: PinkPlastic_10       | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 56: Peterson_14          | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 57: Kennech_14           | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 58: MaryBeth_11 + 2      | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 59: Seanderson_12 + 2    | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 60: Barriga_11           | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 61: Wilkins_11           | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 62: Edmerson_12          | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 63: Niza_13              | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 64: NEHaio_11            | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 65: ProMouse_10          | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 66: Chanagan_10          | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 67: McSinger_12          | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 68: Cla0_11              | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 69: Sanya_10             | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 70: DreamCatcher_14      | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 71: Raid_12              | 62 |     | 188 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 72: Biesser_11           | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 73: Pari_12              | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 74: Laminar3_11          | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 75: Manatee_12           | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 76: Atkinbua_12          | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 77: Michney_11           | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 78: Cueyliss_11 + 1      | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 79: Mryoio_10            | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 80: Blue_11              | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 81: Hami1_13             | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 82: Peily_12             | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 83: PherisBuelier_12 + 1 | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 84: Kugel_12             | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 85: Tasp14_12            | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 86: inyanga_10           | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 87: Papfu_10             | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 88: Rutherford_13        | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 89: Espresso_11          | 62 |     |     | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 90: Norz_13              | 62 |     | 179 | 213 | 253 | 299 | 339 | 389 |     | 472 | 488 | 521 | 594 | 621 |
| 91: Onno789_10           | 62 | 148 | 188 | 213 | 253 | 299 | 339 | 389 | 438 | 472 | 488 | 521 | 594 | 621 |
| 92: Eaglepride_12        | 62 | 148 | 188 | 213 | 253 | 299 | 339 | 389 | 438 | 472 | 488 | 521 | 594 | 621 |
| 93: Drake94_10           | 62 | 148 | 188 | 213 | 253 | 299 | 339 | 389 | 438 | 472 | 488 | 521 | 594 | 621 |
| 94: Snapes_14 + 3        | 62 | 148 | 188 | 213 | 253 | 299 | 339 | 389 | 438 | 472 | 488 | 521 | 594 | 621 |
| 95: Chupacabra_11        | 62 | 148 | 188 | 213 | 253 | 299 | 339 | 389 | 438 | 472 | 488 | 521 | 594 | 621 |
| 96: Rebeuca_12 + 1       | 62 | 148 | 188 | 213 | 253 | 299 | 339 | 389 | 438 | 472 | 488 | 521 | 594 | 621 |
| 97: KittenMittens_10     | 62 | 148 | 188 | 213 | 253 | 299 | 339 | 389 | 438 | 472 | 488 | 521 | 594 | 621 |
| 98: DontArgue_10         | 62 | 148 | 188 | 213 | 253 | 299 | 339 | 389 | 438 | 472 | 488 | 521 | 594 | 621 |
| 99: Topanga_11 + 3       | 62 | 148 | 188 | 213 | 253 | 299 | 339 | 389 | 438 | 472 | 488 | 521 | 594 | 621 |
| 100: Goose_11 + 1        | 62 | 148 | 188 | 213 | 253 | 299 | 339 | 389 | 438 | 472 | 488 | 521 | 594 | 621 |

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| t51: npsyntherRex_11 | 63 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|



## Pham 283330

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|---------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 251: Sunk_11 + 1          | 61 | 179 | 213 | 265 | 276 | 283 | 288 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 606 | 636 |
| 252: Mundrea_11           | 61 | 213 | 265 | 276 | 283 | 288 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 | 636 |
| 253: Cindaradix_10        | 61 | 213 | 265 | 276 | 283 | 288 | 313 | 335 | 379 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 | 636 | 666 |
| 254: Perplexer_11         | 61 | 148 | 198 | 213 | 265 | 276 | 283 | 313 | 335 | 379 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 | 636 |
| 255: LeoAvram_11          | 61 | 148 | 198 | 213 | 265 | 276 | 283 | 313 | 335 | 379 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 | 636 |
| 256: Morrow_11            | 61 | 148 | 198 | 213 | 265 | 276 | 283 | 313 | 335 | 379 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 | 636 |
| 257: LochMonster_11       | 61 | 148 | 198 | 213 | 265 | 276 | 283 | 313 | 335 | 379 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 | 636 |
| 258: Cimron_11            | 61 | 148 | 198 | 213 | 265 | 276 | 283 | 313 | 335 | 379 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 | 636 |
| 259: Miliski_11           | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 260: Tiger_9 + 1          | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 261: Florence4_10 + 1     | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 262: Arimid_9             | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 263: Micasa_9 + 1         | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 264: Midas2_9 + 1         | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 265: George_8 + 1         | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 266: Chadwick_10 + 1      | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 267: Conspiracy_9 + 5     | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 268: OnionJack_9          | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 269: Naca_9               | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 270: Dublin_8 + 1         | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 271: Mlicery_9 + 1        | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 272: Discoknowium_9       | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 273: twigg_9 + 2          | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 274: Jabiru_9             | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 275: Bluefacon_8          | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 276: Ghoulboy_9           | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 277: Petten_10 + 1        | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 278: Farynearai_8         | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 279: Sydnat_9 + 1         | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 280: ElTiger69_9          | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 281: Jovo_9               | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 282: Aragog_9             | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 283: Bonamassa_9          | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 284: Marysven_8           | 61 | 148 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 | 576 | 606 |
| 285: DelvinSonDori_14 + 3 | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 286: Phiamo_15 + 16       | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 287: Hammer_15 + 18       | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 288: Neenanka16_15 + 5    | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 289: Ritter_15 + 2        | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 290: SuperAwesome_15      | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 291: isiphiwo_15          | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 292: PP_21                | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 293: Hmshei_12            | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 294: Hinder_11            | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 295: Sheen_13 + 2         | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 296: DroogsArmy_12        | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 297: Smeadley_9 + 2       | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 298: Astro_9 + 5          | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 299: Saintus_9            | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |
| 300: NearyHeadless_9      | 61 | 148 | 175 | 188 | 203 | 226 | 265 | 276 | 283 | 313 | 335 | 379 | 389 | 401 | 408 | 438 | 464 | 488 | 516 | 545 |

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# Pham 283330

|                        |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 851: Kaylissa_2        | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 852: Sue2_2            | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 853: Subaru_2+2        | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 854: DTSierra_2        | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 855: Pumpkins_2        | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 856: MissSwiss_2       | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 857: AGrandora_2       | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 858: DrManhattan_2+1   | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 859: Joemato_2+2       | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 860: iter_2+1          | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 861: Janeemi_3         | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 862: Nan_2+1           | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 863: Furao_2+1         | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 864: ntyBittyPiggy_2   | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 865: Tuck_3+2          | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 866: Adumb2043_2       | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 867: VResidence_2      | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 868: Cassia_2          | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 869: Crewmate_3        | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 870: Noritoy_2         | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 871: AEgle_2+3         | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 872: Lego_2            | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 873: Schallner_2       | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 874: UFootbal_2+2      | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 875: MaGuCo_2          | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 876: Tweety19_3+1      | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 877: JohnHicc_2+2      | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 878: Emotion_2         | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 879: JasmineDragon_2+1 | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 880: MiniMommy_2       | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 881: Origami_2         | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 882: VroomVroom_2      | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 883: Haisey_2+3        | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 884: Sabourin_2+5      | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 885: Mysterium_2+3     | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 886: Ashes_2           | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 887: Giorgio_2         | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 888: Soondubu_2        | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 889: Exile_2           | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 890: AmVach_2          | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 891: SPB78_2           | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 892: VWB_2             | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 893: Phettuccine_6+7   | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 894: Nabl_6+1          | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 895: Eddasa_7+3        | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 896: Lorelei_6         | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 897: Asten_6+9         | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 898: Onstoppable_6+5   | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 899: Katalie_7+2       | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |
| 900: Emaahora_8        | 45 | 84 | 247 | 265 | 280 | 305 | 316 | 344 | 367 | 418 | 464 | 531 | 555 | 576 | 599 | 621 |

|                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| #01: PageFighter_7       | 596 | 150 | 189 | 203 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 624 | 660 |
| #02: Lika_6 + 2          | 596 |     | 189 | 203 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 624 | 660 |
| #03: Ejemplo_6 + 3       | 596 |     | 189 | 203 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 624 | 660 |
| #04: Rusticus_7 + 2      | 596 |     | 189 | 203 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 624 | 660 |
| #05: Daitran_7 + 1       | 596 |     | 189 | 203 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 624 | 660 |
| #06: Lannister_7         | 596 |     | 189 | 203 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 624 | 660 |
| #07: Zemiya_7 + 3        | 596 |     | 189 | 203 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 624 | 660 |
| #08: Nanodon_8           | 596 |     | 189 | 203 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 624 | 660 |
| #09: Toma_6              | 596 | 150 | 189 | 203 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 624 | 660 |
| #10: Triste_6            | 596 |     | 189 | 203 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 624 | 660 |
| #11: Axiom_7             | 596 |     | 189 | 203 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 624 | 660 |
| #12: ELB20_05 + 1        | 596 | 120 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 624 | 660 |     |
| #13: Imabeischer_6       | 596 | 120 | 189 | 213 | 218 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #14: Amethyst_6          | 596 | 131 | 189 | 213 | 218 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #15: Haizum_6            | 596 |     | 213 | 218 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 660 |
| #16: Andris_6            | 596 |     | 213 | 218 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 660 |
| #17: Puginator_8         | 596 |     | 203 | 213 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 660 |
| #18: Janus_7 + 2         | 596 |     | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 624 | 660 |     |
| #19: Zainub_8            | 596 | 150 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 624 | 660 |     |
| #20: Pabito_6            | 596 | 150 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 624 | 660 |     |
| #21: Jevington_8         | 596 |     | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 624 | 660 |     |
| #22: Triumph_8           | 596 | 150 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 624 | 660 |     |
| #23: BartholomewSD_8 + 1 | 596 |     | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 624 | 660 |     |
| #24: Daudau_6            | 596 | 120 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 624 | 660 |     |
| #25: TrvxScott_5         | 596 | 131 | 189 | 213 | 218 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #26: SqueakyClean_7      | 596 |     | 189 | 213 | 218 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #27: Nishikigoi_6        | 596 |     | 189 | 213 | 218 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #28: Loolian_7 + 1       | 596 | 189 | 213 | 218 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 660 |
| #29: Caelum_7            | 596 |     | 189 | 213 | 218 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #30: Telunt_6            | 596 | 150 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 624 | 660 |     |
| #31: Marav_9             | 596 | 150 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 624 | 660 |     |
| #32: HankI44_7           | 596 | 150 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 624 | 660 |     |
| #33: Paulo_8             | 596 |     | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 624 | 660 |     |
| #34: Thestral_7          | 596 |     | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 599 | 624 | 660 |     |
| #35: Bowden_7            | 596 | 120 | 189 | 213 | 218 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #36: Diane_6             | 596 | 120 | 189 | 213 | 218 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #37: Omar_7              | 596 |     | 203 | 213 | 218 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #38: Issmi_7             | 596 |     | 203 | 213 | 218 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #39: Superstar_8         | 596 |     | 189 | 203 | 213 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #40: Kaine_6 + 4         | 596 | 109 | 189 | 203 | 213 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #41: Saltant_6           | 596 | 109 | 189 | 203 | 213 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #42: Amelia_6 + 1        | 596 | 109 | 189 | 203 | 213 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #43: Aisaber_7           | 596 |     | 189 | 203 | 213 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #44: Verabelle_7         | 596 | 150 | 189 | 203 | 213 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #45: Provolone_7         | 596 | 101 | 189 | 203 | 213 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #46: Jmitchelle_6        | 596 | 120 | 189 | 203 | 213 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #47: Dexers_5            | 596 |     | 189 | 203 | 213 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #48: Yosi_7              | 596 | 101 | 189 | 203 | 213 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #49: Vanseggeien_9       | 596 |     | 189 | 203 | 213 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |
| #50: ZamZam_9            | 596 |     | 189 | 203 | 213 | 256 | 282 | 296 | 307 | 313 | 388 | 405 | 425 | 464 | 502 | 533 | 545 | 553 | 660 |

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## Pham 283330

|                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 501: WhoseManz_26       | 99  | 134 | 184 | 197 | 239 | 251 | 313 | 323 | 391 | 405 | 476 | 501 | 518 | 547 | 611 | 619 | 651 |
| 502: Hubbabubba_22      | 99  | 153 | 184 | 191 | 213 | 251 | 313 | 321 | 391 | 405 | 476 | 498 | 500 | 521 | 591 | 611 | 651 |
| 503: Preakley_33 + 1    | 99  | 134 | 184 | 200 | 213 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 518 | 521 | 591 | 611 | 651 |
| 504: HomeFly_30         | 99  | 153 | 184 | 200 | 213 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 518 | 521 | 591 | 611 | 651 |
| 505: Scuba_33           | 99  | 184 | 191 | 213 | 251 | 292 | 313 | 321 | 391 | 405 | 476 | 491 | 518 | 521 | 591 | 611 | 651 |
| 506: Polyuyuki_28 + 1   | 99  | 184 | 191 | 213 | 251 | 292 | 313 | 321 | 391 | 405 | 476 | 491 | 518 | 521 | 591 | 611 | 651 |
| 507: Apiary_28 + 2      | 99  | 184 | 191 | 213 | 251 | 292 | 313 | 321 | 391 | 405 | 476 | 491 | 518 | 521 | 591 | 611 | 651 |
| 508: GuyFagien_28       | 99  | 134 | 184 | 200 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 518 | 521 | 591 | 611 | 651 |
| 509: MacGully_32        | 101 | 134 | 184 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 518 | 521 | 591 | 611 | 651 |
| 510: Sopeesian_4 + 2    | 101 | 134 | 171 | 188 | 203 | 213 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 511: RSchmalzi_5        | 101 | 134 | 171 | 188 | 203 | 213 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 512: MScam_6 + 3        | 101 | 141 | 171 | 188 | 203 | 213 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 513: Azira_6            | 101 | 134 | 171 | 188 | 203 | 213 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 514: Agatha_4           | 101 | 134 | 171 | 188 | 203 | 213 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 515: Carsonalex_5       | 99  | 134 | 171 | 192 | 203 | 226 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 516: RanchPamCat_7      | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 517: Quasar_4 + 2       | 839 | 134 | 171 | 188 | 203 | 226 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 518: Hexbug_5           | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 519: PotPie_4           | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 520: KayGee_4 + 1       | 101 | 141 | 171 | 188 | 203 | 213 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 521: Survivors_6 + 2    | 101 | 134 | 171 | 188 | 203 | 213 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 522: Biskit_5 + 3       | 99  | 134 | 171 | 188 | 203 | 226 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 523: Ona_5              | 99  | 134 | 171 | 192 | 203 | 226 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 524: GIKK_7             | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 525: Dre3_4 + 2         | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 526: CocoaPuff_3 + 1    | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 527: Lauer_3            | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 528: Lucky_4            | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 529: Socotra_5 + 2      | 101 | 134 | 171 | 188 | 203 | 213 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 530: Amok_3             | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 531: Cozz_4 + 4         | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 532: MunkgeeRoachy_4    | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 533: SummitAcademy_3    | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 534: ElJefes_3          | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 535: MAAnor_4           | 99  | 134 | 171 | 188 | 203 | 226 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 536: Nodigi_5           | 99  | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 537: Yakuit_5           | 101 | 134 | 171 | 188 | 203 | 224 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 538: Feastonyeel_3 + 1  | 101 | 141 | 171 | 188 | 203 | 213 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 539: HippoPoirot_6      | 101 | 134 | 171 | 188 | 203 | 224 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 540: CherryonLim_5      | 101 | 141 | 171 | 188 | 203 | 213 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 541: Zareef_6           | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 542: GREZ_02            | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 543: AndPeggy_3 + 1     | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 544: Typhonomachy_4     | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 545: Vine_5             | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 546: Toils_6            | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 547: CaramelLatte_4 + 2 | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 548: Elmai_5            | 101 | 141 | 171 | 188 | 203 | 213 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 549: Woolwood_7         | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |
| 550: BmDoor_6           | 101 | 134 | 171 | 188 | 203 | 225 | 251 | 313 | 321 | 391 | 405 | 476 | 491 | 521 | 591 | 611 | 651 |

## Pham 283330

|                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 551: SteamedHams_6    |     |     | 101 | 127 | 177 |     |     | 201 | 241 | 250 | 278 | 301 | 316 | 326 | 362 | 372 | 383 | 414 | 436 | 466 | 496 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |
| 552: Emalyn_3         |     |     | 101 | 131 | 177 |     |     | 203 | 224 | 243 | 278 | 301 | 324 | 330 | 347 | 367 | 383 | 407 | 412 | 436 | 453 | 480 | 523 | 556 | 587 | 611 | 632 | 650 |     |
| 553: McDazzle_3       |     |     | 101 | 131 | 177 |     |     | 203 | 224 | 243 | 278 | 301 | 324 | 330 | 347 | 367 | 383 | 407 | 412 | 436 | 453 | 480 | 523 | 556 | 587 | 611 | 632 | 650 |     |
| 554: SheckWes_3       |     |     | 101 | 131 | 177 |     |     | 203 | 224 | 243 | 278 | 301 | 324 | 330 | 347 | 367 | 383 | 407 | 412 | 436 | 453 | 480 | 523 | 556 | 587 | 611 | 632 | 650 |     |
| 555: AikoCarson_3     |     |     | 101 | 131 | 177 | 189 | 203 | 224 | 243 | 250 | 278 | 301 | 324 | 330 | 347 | 367 | 383 | 407 | 412 | 436 | 453 | 480 | 523 | 556 | 587 | 611 | 632 | 650 |     |
| 556: Mayweather_5     |     |     | 101 | 131 | 177 |     |     | 203 | 224 | 243 | 278 | 301 | 324 | 330 | 347 | 367 | 383 | 407 | 412 | 436 | 453 | 480 | 523 | 556 | 587 | 611 | 632 | 650 |     |
| 557: Flib8_5          |     |     | 101 | 131 | 177 |     |     | 203 | 224 | 243 | 278 | 301 | 316 | 326 | 362 | 372 | 383 | 414 | 436 | 466 | 496 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |
| 558: RADical_5        |     |     | 99  | 131 | 151 |     | 193 | 203 | 226 | 250 | 278 | 305 | 326 | 347 | 367 | 383 | 398 | 407 | 412 | 436 | 453 | 480 | 523 | 556 | 587 | 611 | 632 | 650 |     |
| 559: Button_5         |     |     | 99  | 131 | 151 |     | 193 | 203 | 226 | 250 | 278 | 305 | 326 | 347 | 367 | 383 | 398 | 407 | 412 | 436 | 453 | 480 | 523 | 556 | 587 | 611 | 632 | 650 |     |
| 560: Margaret_7       |     |     | 99  | 131 | 151 |     | 193 | 203 | 226 | 250 | 278 | 305 | 326 | 347 | 367 | 383 | 398 | 407 | 412 | 436 | 453 | 480 | 523 | 556 | 587 | 611 | 632 | 650 |     |
| 561: Jamzy_7          |     |     | 101 | 131 | 177 |     |     | 203 | 224 | 243 | 278 | 301 | 324 | 330 | 347 | 367 | 383 | 407 | 412 | 436 | 453 | 480 | 523 | 556 | 587 | 611 | 632 | 650 |     |
| 562: Pons_4           |     |     | 101 | 131 | 174 |     |     | 203 | 224 | 243 | 278 | 301 | 324 | 330 | 347 | 367 | 383 | 407 | 412 | 436 | 453 | 480 | 523 | 556 | 587 | 611 | 632 | 650 |     |
| 563: SweatTears_6     | 70  |     |     | 146 |     |     | 203 | 224 | 229 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |
| 564: Confidence_2     | 70  |     |     | 145 |     |     | 203 | 224 | 229 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |
| 565: Bradissa_2       | 70  |     |     | 145 |     |     | 203 | 224 | 229 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |
| 566: Angelique_2      | 70  |     |     | 145 |     |     | 203 | 224 | 229 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |
| 567: BritBrat_2+6     | 70  |     |     | 145 |     |     | 203 | 224 | 229 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |
| 568: Jablonski_2+1    | 70  |     |     | 146 |     |     | 203 | 224 | 229 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 399 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |
| 569: Wrigley_2        | 70  |     |     | 145 |     |     | 203 | 224 | 229 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |
| 570: Posh_2           | 70  |     |     | 145 |     |     | 203 | 224 | 229 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |
| 571: BeeGee_2         | 70  |     |     | 145 |     |     | 203 | 224 | 229 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |
| 572: Cashline_2       | 70  |     |     | 145 |     |     | 203 | 224 | 229 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |
| 573: LonelyBoi_2      |     |     | 102 | 125 | 145 |     |     | 178 | 225 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 399 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |
| 574: Cardigan_30      |     |     | 102 | 125 | 145 |     | 178 | 225 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 399 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |
| 575: Yvonnetaastic_28 |     |     | 102 | 143 |     |     | 225 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 399 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |     |
| 576: DatBoi_13        |     |     | 102 | 143 | 177 |     | 225 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 399 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |     |
| 577: SpeedDemon_130   |     |     | 102 | 143 | 177 |     | 225 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 399 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |     |
| 578: Moliymur_13      |     |     | 102 | 143 | 177 |     | 225 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 399 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |     |
| 579: Banlam_12        |     |     | 102 | 143 | 177 |     | 225 | 243 | 278 | 285 | 296 | 306 | 316 | 331 | 343 | 350 | 371 | 399 | 401 | 412 | 436 | 453 | 476 | 501 | 608 | 632 | 650 |     |     |
| 580: Daredevil_12+1   | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 581: MontyNRICK_2+1   | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 582: Birdsong_2       | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 583: Apricot_2        | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 584: Crater_2         | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 585: Kuwabara_2       | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 586: UtzChips_2+1     | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 587: IAmGroot_2+1     | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 588: Honk_2           | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 589: Forester_4+3     | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 590: Mabodamaca_2     | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 591: Caron_2          | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 592: Cent1621_2       | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 593: Floor_2          | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 594: SuMoo_2          | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 595: Zeta1847_2       | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 596: KimChi1738_62    | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 597: SticknQue_14     | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 598: PeterPan_12      | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 599: Cruella_12       | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 600: C3PO_12          | 343 | 367 | 383 | 407 | 412 | 436 | 453 | 476 | 501 | 523 | 556 | 587 | 596 | 632 | 650 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

## Pham 283330

|                       | 127 | 163 | 181 | 193 | 207 | 219 | 233 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 501: Darwin_15        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 502: TouchMeNot_3+3   | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 503: Clank_2          | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 504: Rita_2+20        | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 505: LunaBio_2+2      | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 506: Scottish_2+21    | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 507: OlympiaSaint_2+9 | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 508: Eish_2           | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 509: ByChance_2+4     | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 510: wachhund_2       | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 511: rhubesi_2+1      | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 512: Saai_2+2         | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 513: vRedHorse_2      | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 514: Doug_2+4         | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 515: Vivum_2          | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 516: Nivrat_2         | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 517: Phanphagia_2+27  | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 518: violac_2         | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 519: Juniper1_2       | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 520: Modragons_2      | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 521: Hlubikazi_2+2    | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 522: Spartacus_2+2    | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 523: MilanaBonita_3+3 | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 524: Chevrolet_2+1    | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 525: Matres_2         | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 526: PhosterPotato_2  | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 527: Jennisea_2       | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 528: Wee_2+1          | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 529: Jacob_2+1        | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 530: Latetium_2       | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 531: ibOuu_2+1        | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 532: EmmMonkey_2+4    | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 533: Zerg_2           | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 534: Grr_2+3          | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 535: Polo2Bam_2+1     | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 536: Phatniss_2       | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 537: Grimmer_3        | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 538: Hades_2          | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 539: Topiatin_4       | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 540: Kersh_2          | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 541: KristaRAM_3      | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 542: Blexus_2         | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 543: Mutalorma13_2    | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 544: Wnouxphi_2       | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 545: tDanisky_2+2     | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 546: DLane_2          | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 547: Fancypants_2     | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 548: Yorick_2         | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 549: Liama_2+2        | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |
| 550: GOMbie_2+1       | 98  | 121 | 148 | 163 | 181 | 207 | 219 | 241 | 252 | 268 | 280 | 299 | 313 | 327 | 345 | 358 | 367 | 394 | 421 | 439 | 465 | 502 | 514 | 532 | 591 | 624 | 659 |

## Pham 283330

[illegible]

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 283330 Report

This analysis was run 02/23/26 on database version 636.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 283330 has 1609 members, 210 are drafts.

Phages represented in each track:

- Track 1 : Paraselene\_10, Ringer\_11, StewieG\_10, Marsha\_11, Smeagol\_12, Sorpresa\_11, Sandaddy\_10, KyMonks1A\_13, AFIS\_11, Nhonho\_11
- Track 2 : Molly\_12, BPBiebs31\_12
- Track 3 : Francis47\_11, Alvin\_12, Gompeii16\_11, Aeneas\_13, ChristmasHams\_11, Eyeball\_11, Bircsak\_11, Magnito\_10, HermioneGrange\_12, ConceptII\_11, PascalRango\_10, PhrostyMug\_11, Abrogate\_120, MPlant7149\_10, Mule\_11, Carlyle\_13, Adahisdi\_12, Pinto\_13, Bob3\_10, Licorice\_13
- Track 4 : Euphoria\_11, Sumter\_10, Scowl\_12, Marco3\_11, BaconJack\_13, DrFeelGood\_10, Marcell\_11
- Track 5 : BeesKnees\_12
- Track 6 : Thor\_11, SarFire\_11
- Track 7 : MilleFeuille\_8, BigPaolini\_12, Alsfro\_15
- Track 8 : Pita2\_13, Tote\_13, RidgeCB\_11, JuliaChild\_13, LilBib\_12, PSullivan\_13, Swole\_13
- Track 9 : Acme\_13, BigMau\_13, Jerm2\_12, Museum\_13, Pippin\_13, Rubeus\_12, Sibs6\_13, PattyP\_13, Burton\_12
- Track 10 : Bigchung\_11, PowerRanger\_11, Abbyshoes\_12, Zephyr\_11, Dussy\_12, Zeuska\_12
- Track 11 : Switzer\_12, U2\_11, KSSJEB\_11
- Track 12 : Aldrich\_12, Noxious\_12, Hermia\_13, Iqorha\_10, KikiBouba\_12, CatBus\_12, DirtDevil\_12, GroundGoblin\_12
- Track 13 : Fushigi\_12, Marge\_12, SpikeBT\_13, Monet\_13, GageAP\_13
- Track 14 : Oogway\_10
- Track 15 : Petruccio\_11, Froghopper\_12
- Track 16 : TheloniousMonk\_13
- Track 17 : Marchy\_10, Ajay\_11, Snazzy\_9, Payneful\_11, Graduation\_13, Bones\_11, BarrowTuph\_10, LunarLander\_11
- Track 18 : Lockley\_11, DD5\_12
- Track 19 : A6\_09, BK1\_09, Papez\_13
- Track 20 : Ichabod\_12, Briton15\_13
- Track 21 : Fajezeel\_13, Greg\_13
- Track 22 : EnzoK\_12, Sagefire\_12, Altman\_12, Traft412\_13, Kanely\_12, Wheeler\_11, Solon\_11, Gachnar\_11, Dexes\_12

- Track 23 : Mkhuseli\_12
- Track 24 : Agaliana\_11, Smairt\_12, PacerPaul\_11, Gandalf20\_12, KBG\_12
- Track 25 : Perseus\_12, Blackflame\_11, Jasper\_12, Moose\_10, Turj99\_10, Forsytheast\_10, ShortQueendom\_10, Dreamboat\_12, SwissCheese\_11
- Track 26 : Doom\_11, Watermelon\_13, Crispicous1\_10, Ruotula\_10, Lesedi\_10, MrGordo\_11
- Track 27 : McGuire\_12, Dynamix\_12
- Track 28 : Applejack\_11, Sunshine924\_10, Rhynn\_11, ILeeKay\_13
- Track 29 : STLscum\_12
- Track 30 : Dulcie\_10
- Track 31 : CactusRose\_10, Fascinus\_10, Bigfoot\_10
- Track 32 : Slagathor\_12, HarryOW\_12
- Track 33 : QTRlifeCrisis\_11
- Track 34 : Gwendoluna\_13
- Track 35 : Nerujay\_12, Maroc7\_10, Arlo\_10, Puppet\_11
- Track 36 : Pepe\_12, Arcanine\_12, Rajelicia\_11, Killigrew\_9, Hope4ever\_11, Parliament\_10
- Track 37 : Squee\_12
- Track 38 : Bruns\_10, Gyzlar\_13, Treddle\_13
- Track 39 : Topgun\_11, Teodoridan\_9, SkiPole\_13
- Track 40 : Rohr\_12, Buttons\_12
- Track 41 : GMonster\_10, TwoPeat\_12
- Track 42 : Magnar\_11
- Track 43 : HanShotFirst\_11, Homines\_11
- Track 44 : Target\_13, Kykar\_9
- Track 45 : BillKnuckles\_12
- Track 46 : GrecoEtereo\_12
- Track 47 : JackSparrow\_12
- Track 48 : Rufus\_12
- Track 49 : Ashballer\_10
- Track 50 : IgnatiusPatJac\_10, BluSpix\_11
- Track 51 : Tripl3t\_12
- Track 52 : Whitspit\_12
- Track 53 : Bxb1\_10
- Track 54 : Seabiscuit\_13
- Track 55 : PinkPlastic\_10
- Track 56 : Peterson\_14
- Track 57 : Kenmech\_14
- Track 58 : MaryBeth\_11, MetalQZJ\_11, Corvo\_11
- Track 59 : Seanderson\_12, JC27\_13, Trouble\_11
- Track 60 : Barriga\_11
- Track 61 : Wilkins\_11
- Track 62 : Edtherson\_12
- Track 63 : Niza\_13
- Track 64 : NEHalo\_11
- Track 65 : ProMouse\_10
- Track 66 : Chanagan\_10
- Track 67 : McSinger\_12
- Track 68 : Ciao\_11
- Track 69 : Sanya\_10
- Track 70 : DreamCatcher\_14
- Track 71 : Raid\_12
- Track 72 : Blessor\_11

- Track 73 : Pari\_12
- Track 74 : Lamina13\_11
- Track 75 : Manatee\_12
- Track 76 : Atkinbua\_12
- Track 77 : Michley\_11
- Track 78 : Cueylyss\_11, Zeeculate\_10
- Track 79 : Mryolo\_10
- Track 80 : Blue\_11
- Track 81 : Hami1\_13
- Track 82 : Pelly\_12
- Track 83 : PherrisBueller\_12, Jorgensen\_11
- Track 84 : Kugel\_12
- Track 85 : Tasp14\_12
- Track 86 : Inyanga\_10
- Track 87 : Paphu\_10
- Track 88 : Rutherferd\_13
- Track 89 : Espresso\_11
- Track 90 : Norz\_13
- Track 91 : Ohno789\_10
- Track 92 : Eaglepride\_12
- Track 93 : Drake94\_10
- Track 94 : Shapes\_14, RhynO\_12, DustyMartin\_14, Rowdy\_14
- Track 95 : Chupacabra\_11
- Track 96 : Rebeuca\_12, Kristoff\_12
- Track 97 : KittenMittens\_10
- Track 98 : DontArgue\_10
- Track 99 : Topanga\_11, Edison31\_11, WalterMcMickey\_11, Twister\_11
- Track 100 : Goose\_11, OKCentral2016\_11
- Track 101 : Severus\_10
- Track 102 : Poompha\_10
- Track 103 : PeaceMeal1\_10
- Track 104 : Trike\_9
- Track 105 : Salz\_12, Mulciber\_12, Snape\_12
- Track 106 : Et2Brutus\_11, Wolpertinger\_11, Bachome\_12, Petersenfast\_11, Gilberta\_12, Bud\_12, Mabel\_12, Munch\_12, Ebony\_12, MaCh\_12, Orange\_12, Bowtie\_12, Sham4\_12, Joselito\_12, TinyTimmy\_12, Aneem\_12
- Track 107 : Timothy\_12, Fibonacci\_12, Hutc2\_12
- Track 108 : Saskia\_11
- Track 109 : Lucivia\_12, Jabith\_12, Flaverint\_12, Insomnia\_12, Kimba\_12
- Track 110 : Refuge\_15
- Track 111 : DARTHPhader\_13
- Track 112 : Pharaoh\_12
- Track 113 : Zimmer\_14
- Track 114 : Steamy\_13
- Track 115 : Phlei\_8
- Track 116 : Jeeves\_11
- Track 117 : Sunhee\_10
- Track 118 : Gail\_11
- Track 119 : Luchador\_12
- Track 120 : SororFago\_11
- Track 121 : Switzerland\_14, LastResort\_14, Soups\_14, ReMo\_14, MinecraftSteve\_15, Anaysia\_14, Boohoo\_14, Warrior24\_14, Nebulosus\_14, Looper\_15, Battleship\_15, Rosalind\_14, Oofda\_14, Epsocamisio\_14

- Track 122 : ShayRa\_15, KatherineG\_14, Strosahl\_14, JSwag\_14, Remus\_14, Ravana\_15, DekHockey33\_14, Waits\_14
- Track 123 : Elle\_12
- Track 124 : Nedarya\_13
- Track 125 : Anon\_12
- Track 126 : EagleEye\_14, PainterBoy\_13, Lucyedi\_13
- Track 127 : 40AC\_15
- Track 128 : MyraDee\_9
- Track 129 : Kimona\_8
- Track 130 : Tomathan\_15, D32\_15, Naji\_15, Travvers\_15, DBQu4n\_15, StarStuff\_15, Kerberos\_15, D29\_13, Duplo\_15
- Track 131 : GaugeLDP\_14, BabyBack\_14
- Track 132 : Malec\_13
- Track 133 : FiringLine\_12, Crucio\_12, QueenBeesly\_12, Retro23\_12, Dalmatian\_12, SemperFi\_14, Georgie2\_13, DudeLittle\_12, SnapTap\_12
- Track 134 : NicoleTera\_16
- Track 135 : Miko\_15
- Track 136 : Landor\_13, Bactobuster\_13, Tristan\_13, Jaan\_15, Phaded\_15, IronMan\_14
- Track 137 : AN9\_15, VC3\_15, ANI8\_15, C3\_10
- Track 138 : Equemioh13\_14, WideWale\_14, Updawg\_14, Gratitude\_13
- Track 139 : AnnaL29\_15
- Track 140 : Prudy\_14
- Track 141 : Rachaly\_15
- Track 142 : Serenity\_11, Bradman\_11, Quokka\_10, MajorMajor\_11
- Track 143 : TarsusIV\_12
- Track 144 : Leogania\_14, BiancaTri92\_14
- Track 145 : Changeling\_15
- Track 146 : JoshKayV\_14
- Track 147 : Drake55\_14, Piro94\_13, Flare16\_12, HarryHoudini\_14
- Track 148 : First\_0012, 20ES\_12
- Track 149 : AN3\_12
- Track 150 : Che12\_13
- Track 151 : TopsytheTRex\_11
- Track 152 : Caraxes\_11, Superchunk\_11
- Track 153 : ForesterFrank\_13
- Track 154 : Whabigail7\_14, LilTurb\_14, Jerm\_14, Buggy\_14, Leviathan\_14, Turbido\_14, Dignity\_14, AbbyPaige\_14, Agape74\_14
- Track 155 : EZMoney23\_16
- Track 156 : Fameo\_12, Heffalump\_14, QueenB2\_12
- Track 157 : Colin\_16
- Track 158 : Echid\_12, Benvolio\_12
- Track 159 : MissWhite\_12, Journey13\_10
- Track 160 : RedRock\_15
- Track 161 : Sknot\_12
- Track 162 : Loser\_15
- Track 163 : WeiHuaDA\_18, Trixie\_15
- Track 164 : HippoHollow\_13
- Track 165 : Jsquared\_11
- Track 166 : Kalpine\_15
- Track 167 : ArcherNM\_14
- Track 168 : MiculUcigas\_12
- Track 169 : Anselm\_12

- Track 170 : SwirlSquare\_14
- Track 171 : ChipMunk\_14, EvilGenius\_14
- Track 172 : Trooper\_12
- Track 173 : Herbertwm\_10
- Track 174 : NaSiaTalie\_12
- Track 175 : VA6\_12
- Track 176 : L5\_13, Koduck\_12
- Track 177 : Smeagan\_14
- Track 178 : KingCyrus\_14
- Track 179 : LionsBait\_13
- Track 180 : XianYue\_12
- Track 181 : Pukovnik\_14
- Track 182 : BengiVuitton\_13
- Track 183 : Centaur\_14
- Track 184 : Lokk\_15, BobSwaget\_15
- Track 185 : DeerParkTS\_13
- Track 186 : Acolyte\_12
- Track 187 : Odin\_11
- Track 188 : Larenn\_13
- Track 189 : LadyBird\_12
- Track 190 : CRB1\_12
- Track 191 : SweetiePie\_12
- Track 192 : Deloris\_13
- Track 193 : Power\_12
- Track 194 : Baehexic\_13
- Track 195 : Iwokeuplikedis\_12
- Track 196 : Pomar16\_15
- Track 197 : Ph8s\_13, Adzzy\_13
- Track 198 : Terrific\_16
- Track 199 : NothingSpecial\_14
- Track 200 : Anthony\_11
- Track 201 : FatCactus\_10
- Track 202 : Kinmap\_11
- Track 203 : Chargerpower\_12
- Track 204 : Noella\_12, Texage\_11, Veracruz\_11, Panamaxus\_12, Caviar\_12, QuinnKiro\_11, EtoileNova\_12, Norbert\_11, Margo\_12, Popcicle\_12, ResDef\_12, Pocahontas\_12, Todacoro\_12, Lambert1\_12, Hookmount\_12
- Track 205 : Lowa\_13, Malinsilva\_15, SoYo\_13, StepMih\_13, Grub\_13, KADY\_14, Misomonster\_15, Dieselweasel\_13, MuchMore\_15, Phoebe\_13, LBerry\_13, Tiffany\_13, MarQuardt\_13, Jobu08\_13, Sabia\_13, Gwennie\_12, LarryKay\_13, Spike509\_13, P28Green\_13, TinyPebbles\_13, HashRod\_14, Croquant\_14, Colbster\_13, Grum1\_13, Grif\_13, BuzzBuzz\_12, Stagni\_13, Wooldri\_15, Hercules11\_13, Rummer\_13, Bxz2\_13, PGHhamlin\_15, Ollie\_13, PotatoSplit\_14, Farber\_13, Microwolf\_13, AgronaGT15\_13, Soshari\_15, JHC117\_13, GtownJaz\_13, Penny1\_13, EpicPhail\_13, Montavir\_12, Phoxy\_13, Aglet\_13, Watson\_13, Lilith\_13, Snickers\_13, SoilDragon\_13, Pembroke\_13, MadMarie\_13, Methuselah\_13, Sabinator\_13, Beauxregard13\_13, BreSam8\_13, DaHudson\_13, Mainiac\_13, AugsMagnumOpus\_15
- Track 206 : Heliosoles\_13, HaveUMetTed\_14, Manu\_14, Pawn\_13, Groupthink\_14, Calvinny\_14, OlanP\_13, Kalb97\_14, PhishRPhriends\_12, Gemma\_13, PurpleHaze\_13, Kalnoky\_14, Marius\_14
- Track 207 : Kachowdy\_11, Heathen\_11, Zarafa\_11

- Track 208 : Marie\_13, JenCasNa\_13, Taurus\_13, LugYA\_15, Fernando\_13, MoneyMay\_13, Bigflo\_13, Cullens\_13
- Track 209 : ACFishhook\_13
- Track 210 : Bugatti\_11, Giroux\_12, TNguyen7\_11, Puppy\_12, Idleandcovert\_11, Clammy\_11, Pistachio\_12, SaturnRing\_11, BlueBird\_12
- Track 211 : Zetzy\_12
- Track 212 : BabyJohn\_10, Chiqui\_10
- Track 213 : Phranny\_14, ClownCar\_14, Reba\_14
- Track 214 : HelDan\_11
- Track 215 : Louie6\_13
- Track 216 : MA5\_11
- Track 217 : Rockstar\_11
- Track 218 : Phantastic\_11
- Track 219 : Scout\_11, Fred313\_11
- Track 220 : JeppNRM\_14
- Track 221 : JF2\_11, B1\_09, MK4\_11, JF4\_11
- Track 222 : BabyRay\_11
- Track 223 : Vix\_13
- Track 224 : Roimos\_11
- Track 225 : DropBear\_11, Marchesa\_11
- Track 226 : Anubis\_15, GingkoMaracino\_13
- Track 227 : Isca\_11
- Track 228 : Daishi\_12
- Track 229 : BubbleTrouble\_11, Mayonnaise\_11, Ulysses\_10, Chaph\_11, Citius\_11, MeeZee\_11, ICleared\_11, Sultana\_11, Bartimeaus\_11, Burger\_10, Flux\_11, Palestino\_11, Annyong\_11, JoongJeon\_11, TygerBlood\_11, Thanksgivukkah\_11, LappelDuVide\_11, Scamp\_11, Baby16\_11, Romney\_11, Cocoaberry\_11, Maverick\_11, NorthStar\_11, SenorClean\_11, TinaFeyge\_11, Funston\_11, Deano\_11, Florean\_11, Dhanush\_11, Happiness\_11, Eros\_11, Clarenza\_11, Sparxx\_11, Koreni\_10, Ruin\_11, PeterPeter\_11, RockieBear\_10, Tinybot\_10, Maxo\_11, Broseidon\_11, Druantia\_11, Kratark\_11, Kamy\_11, Spino\_11, Roosevelt\_11, Pipcraft\_11, Connomayer\_11, JetBlade\_11, KFPoly\_11, Phacado\_11, Peaches\_11, Shaka\_11, Wizard007\_11, Sabertooth\_11, Gadost\_11, NotAPhaseMom\_11, HamSlice\_10, Blackmoor\_11, Abdiel\_11, Pumbaa\_11, KekoraPapaka\_10, Melvin\_11, Phelipe\_11, Alberto7\_12, Eris\_11, Lorenzo\_11, Relief\_11, CentreCat\_11, Jaykayelowell\_11, Phighter1804\_11, Wander\_11, DirtyDunning\_11, TroyPia\_11, Huxley\_11, Taquarus\_11, Commander\_11, Iceman\_11, Eapen\_11, Medusa\_11, Bruiser\_11, Iracema64\_11, Albee\_11, Houdini22\_11, TiroTheta9\_11, Mazhar510\_11, Bombshell\_11, Avle17\_11, SteMason\_10, Holli\_11, Kingmustik0402\_11, Wilbur\_11, Caelakin\_11
- Track 230 : Noelle\_11
- Track 231 : Miramae\_11
- Track 232 : Koan\_11, Kyee\_11, Lunsford\_12, Lemur\_11
- Track 233 : Ohfah\_11, Nebs\_11, BellusTerra\_11, Polymorphads\_11, YoSam321\_11, Eurydice\_11
- Track 234 : Datway\_11, Wile\_11, Cici\_11, Xena\_11, Backyardigan\_11, Badger\_11, Bumblebee11\_11, Achebe\_11
- Track 235 : PetiteSangsue\_11
- Track 236 : Katalie136\_11
- Track 237 : Stasia\_12
- Track 238 : SheldonCooper\_11, Rosa24\_10, BangNhom\_10, Cerulean\_11, Eagle\_10, ChampagnePapi\_11
- Track 239 : Nyxis\_11

- Track 240 : Skipitt\_11
- Track 241 : Shygu2\_11
- Track 242 : LittleB\_11
- Track 243 : Arturo\_10
- Track 244 : Camperdownii\_10
- Track 245 : AbbysRanger\_11
- Track 246 : Nemo27\_11
- Track 247 : Kremtemulon\_11
- Track 248 : Obama12\_11, LHTSCC\_11
- Track 249 : LittleGuy\_11, Phontbonne\_11
- Track 250 : OKaNui\_11
- Track 251 : Stink\_11, AvatarAhPeg\_11
- Track 252 : Mundrea\_11
- Track 253 : Cindaradix\_10
- Track 254 : Perplexer\_11, Morpher26\_11
- Track 255 : LeoAvram\_11
- Track 256 : Morrow\_11
- Track 257 : LochMonster\_11
- Track 258 : Cintron\_11
- Track 259 : Millski\_11
- Track 260 : Tiger\_9, Lev2\_9
- Track 261 : Florence4\_10, Florence1\_9
- Track 262 : Airmid\_9
- Track 263 : Micasa\_9, Prinashe11\_10
- Track 264 : Midas2\_9, Coog\_9
- Track 265 : George\_8, Cuco\_9
- Track 266 : Chadwick\_10, Scorpia\_10
- Track 267 : Conspiracy\_9, ForGetIt\_9, Archetta\_9, AgentM\_9, PickleBack\_9, Phlorence\_9
- Track 268 : UnionJack\_9
- Track 269 : Naca\_9
- Track 270 : Dublin\_8, Theia\_8
- Track 271 : Milcery\_9, Swirley\_9
- Track 272 : Discoknowium\_9
- Track 273 : Twigg\_9, HuhtaEnerson15\_9, LittleCherry\_9
- Track 274 : Jabiru\_9
- Track 275 : Bluefalcon\_8
- Track 276 : Ghoulboy\_9
- Track 277 : PetterN\_10, Benedict\_9
- Track 278 : Tarynearal\_8
- Track 279 : SydNat\_9, Zolita\_8
- Track 280 : ElTiger69\_9
- Track 281 : Jovo\_9
- Track 282 : Aragog\_9
- Track 283 : Bonamassa\_9
- Track 284 : MarysWell\_8
- Track 285 : DelvinSonDorr\_14, SuperCallie99\_15, BABullseye\_15, EricB\_15
- Track 286 : Priamo\_15, SmellyB\_15, Dorothea\_15, Chartreuse\_15, DaVinci\_15, Kazan\_15, VohminGhazi\_15, Candra\_15, Kipper29\_15, Jeffabunny\_15, McFly\_15, JewelBug\_15, Hoot\_15, BennyP\_15, CloudWang3\_15, Blinn1\_15, GreedyLawyer\_15
- Track 287 : Hammer\_15, ToneTone\_14, Artemis2UCLA\_15, Temprado\_15, Lilbunny\_15, Koko\_15, Blue7\_15, Roksolana\_15, Indra\_15, BlessJoy\_15, Wiks\_15, Yokurt\_15, WunderPhul\_15, Hexamo\_15, Zaka\_15, Tucker\_15, Helmet\_15, Zulu\_15,

Garak\_16

- Track 288 : Neeharika16\_15, Cookiedough\_15, Pmask\_15, Jordennis\_15, Newrala\_15, Polyphemus\_15
- Track 289 : Rifter\_15, Gladiator\_15, Gruunaga\_15
- Track 290 : SuperAwesome\_15
- Track 291 : Isiphiwo\_15
- Track 292 : PP\_21
- Track 293 : Timshel\_12
- Track 294 : HINdeR\_11
- Track 295 : Sheen\_13, FlyCatcher\_15, Toro\_14
- Track 296 : DroogsArmy\_12
- Track 297 : Smeadley\_9, Roary\_9, Dixon\_9
- Track 298 : Astro\_9, Caitlin\_8, Stephig9\_9, Expelliarmus\_8, Danforth\_8, Groundhog\_8
- Track 299 : Saintus\_9
- Track 300 : NearlyHeadless\_9
- Track 301 : Phillis\_9
- Track 302 : Tubs\_13, Aliter\_13, Fayely\_13, Priya\_13, Myxus\_13, HortumSL17\_13, Alma\_13, PackMan\_13, Eidsmoe\_13, Ugenie5\_10, Spouty\_13
- Track 303 : Arissanae\_11
- Track 304 : Rahalelujah\_11, WorldCup\_10, Minispark\_10, Bellris\_10, CogOmlette\_10
- Track 305 : Scherzo\_13, Lilleskat\_11, Phonnegut\_13, Halex\_12, Qobbit\_13, RyeScarlet\_14, Hanray\_12, EmyBug\_13, Beemo\_13
- Track 306 : LoneWolf\_13
- Track 307 : Celestialunch\_12
- Track 308 : Darrell\_14
- Track 309 : Toaka\_11
- Track 310 : Onglai\_12
- Track 311 : Vanisoa\_11
- Track 312 : Pioneer\_13, Conquerage\_13, Catalina\_13, ExplosioNervosa\_13, Sachima\_11, Phaeder\_13, EdogawaKiddo\_11, Ayanochan\_14
- Track 313 : Klodlith\_12, DreamTeam1\_12, Charm\_12
- Track 314 : MegTheThird\_11
- Track 315 : Elephantoon\_13
- Track 316 : Keziacharles14\_11
- Track 317 : BogosyJay\_13
- Track 318 : SheaKeira\_12
- Track 319 : Maminiaina\_13
- Track 320 : Yecey3\_12
- Track 321 : Jiawan\_12
- Track 322 : Salvus\_6, LongHai\_6
- Track 323 : 8UZL\_5, FF47\_05
- Track 324 : JacoRen57\_2
- Track 325 : Muddy\_5
- Track 326 : NoShow\_2
- Track 327 : Maco6\_3
- Track 328 : Farewell\_2, Sparky\_2
- Track 329 : Nergal\_5
- Track 330 : MalagasyRose\_7
- Track 331 : Nyilah\_2
- Track 332 : Phrank15\_2
- Track 333 : Mapleville\_3

- Track 334 : Persistence\_2, CosmicBrownie\_2
- Track 335 : Anekin\_2
- Track 336 : Hestia\_2
- Track 337 : MUWow\_2
- Track 338 : ThursdayNight\_2
- Track 339 : Lizalica\_2
- Track 340 : Eraser\_2, Niobe\_2, Asa16\_2, London\_2, Jstan\_2
- Track 341 : Pixelle\_2
- Track 342 : ObiToo\_2
- Track 343 : Berrie\_2
- Track 344 : Nitro\_2
- Track 345 : KeAlii\_2
- Track 346 : Tallboi\_2
- Track 347 : Wildwest\_3
- Track 348 : Reedo\_2
- Track 349 : Yang\_2, JuneStar\_2
- Track 350 : Warda\_2, JohnDoe\_2, Tbone\_2, Mudpuppy\_2
- Track 351 : Kaylissa\_2, Tutumahutu\_2, Powerpuff\_2, Cyan\_2, YesChef\_2
- Track 352 : Sue2\_2
- Track 353 : Subaru\_2, Elezi\_2, Skelbel\_2
- Track 354 : DrSierra\_2
- Track 355 : Pumpkins\_2
- Track 356 : MissSwiss\_2
- Track 357 : AGrandiflora\_2
- Track 358 : DrManhattan\_2, Adolin\_2
- Track 359 : Joemato\_2, Flutur\_2, Simpson\_2
- Track 360 : Iter\_2, Ascela\_2
- Track 361 : Janeemi\_3
- Track 362 : Tian\_2, Amyev\_2
- Track 363 : Turab\_2, Amploria\_2
- Track 364 : IttyBittyPiggy\_2
- Track 365 : Tuck\_3, Phives\_3, Community\_3
- Track 366 : Adumb2043\_2
- Track 367 : VResidence\_2
- Track 368 : Cassia\_2
- Track 369 : Crewmate\_3
- Track 370 : TforTroy\_2
- Track 371 : AEgle\_2
- Track 372 : Lego\_2
- Track 373 : Schaffner\_2
- Track 374 : IUFootball\_2, Maureen\_2, Liebe\_2
- Track 375 : MaGuCo\_2
- Track 376 : Tweety19\_3, Snek\_3
- Track 377 : JohnThicc\_2, LadyAstra\_2, FiveHead\_2
- Track 378 : Emotion\_2
- Track 379 : JasmineDragon\_2, ShakeltOph\_2
- Track 380 : MiniMommy\_2
- Track 381 : Origami\_2
- Track 382 : VroomVroom\_2
- Track 383 : Halsey\_2, Moss\_2, SpecialK\_2, RockScotty\_2
- Track 384 : Sabourin\_2, Kalimba\_2, Sooty\_2, Cappuccino\_2, Gambol\_2, Donkey\_2
- Track 385 : Mysterium\_2, Beaupre\_2, Gumpizza\_2, Stuu\_2
- Track 386 : Ashes\_2

- Track 387 : Giorgio\_2
- Track 388 : Soondubu\_2
- Track 389 : Exile\_2
- Track 390 : AinMach\_2
- Track 391 : SPB78\_2
- Track 392 : VWB\_2
- Track 393 : Phettuccine\_6, Bovely\_6, Aaronocolus\_6, Legacy\_6, Hydra\_8, Nerdos\_6, Indigo\_6, Caliburn\_6
- Track 394 : Nabi\_6, Rana\_6
- Track 395 : Eddasa\_7, Izzy\_7, BryanRecycles\_7, Oliynyk\_7
- Track 396 : Lorelei\_6
- Track 397 : Asten\_6, Dwayne\_6, Chucky\_6, Snorlax\_6, Werner\_6, SarahRose\_6, OzzyJ\_7, BarryBee\_8, Whatever\_6, Hippo\_6
- Track 398 : Unstoppable\_6, Leviticus\_6, Ozzie\_6, BeardedLady\_7, Esperer\_6, SunsetPointe\_6
- Track 399 : Katalie\_7, RedBear\_8, South40\_7
- Track 400 : Emaanora\_8
- Track 401 : TagePhighter\_7
- Track 402 : Lika\_6, Godpower\_7, Sujidade\_7
- Track 403 : Ejemplo\_6, Yasdnii\_6, Maneekul\_6, TuanPN\_6
- Track 404 : Rusticus\_7, EnochSoames\_7, Jash\_7
- Track 405 : Dattran\_7, Goby\_6
- Track 406 : Lannister\_7
- Track 407 : Zemlya\_7, Brataylor\_7, Celeste\_6, Danzina\_7
- Track 408 : Nanodon\_8
- Track 409 : Toma\_6
- Track 410 : Triste\_6
- Track 411 : Axiom\_7
- Track 412 : ELB20\_05, R4\_6
- Track 413 : TinaBelcher\_6
- Track 414 : Amethyst\_6
- Track 415 : Haizum\_6
- Track 416 : Andris\_6
- Track 417 : Puginator\_8
- Track 418 : Janus\_7, GirlDinner\_6, Animus\_7
- Track 419 : Zainub\_8
- Track 420 : Pablito\_6
- Track 421 : Jevington\_8
- Track 422 : Triumph\_8
- Track 423 : BartholomewSD\_8, Alvy\_8
- Track 424 : Daudau\_6
- Track 425 : TrvxScott\_5
- Track 426 : SqueakyClean\_7
- Track 427 : Nishikigoi\_6
- Track 428 : Loofah\_7, Paedore\_6
- Track 429 : Caelum\_7
- Track 430 : Tefunt\_6
- Track 431 : Marav\_9
- Track 432 : Hank144\_7
- Track 433 : Paolo\_8
- Track 434 : Thestral\_7
- Track 435 : Bowden\_7
- Track 436 : Diane\_6

- Track 437 : Omar\_7
- Track 438 : Issmi\_7
- Track 439 : Superstar\_8
- Track 440 : Kaine\_6, Pavo\_7, ElGato\_7, Conan\_7, Sudan\_7
- Track 441 : Saftant\_6
- Track 442 : Amela\_6, Verse\_6
- Track 443 : Alsaber\_7
- Track 444 : Verabelle\_7
- Track 445 : Provolone\_7
- Track 446 : Jhitchelle\_6
- Track 447 : Dexers\_5
- Track 448 : Yosif\_7
- Track 449 : Vanseggelen\_9
- Track 450 : ZamZam\_9
- Track 451 : Speedwell\_7
- Track 452 : Celery\_8
- Track 453 : phiCAM\_06
- Track 454 : GreenWeasel\_8
- Track 455 : BroPlease\_7
- Track 456 : Urza\_6
- Track 457 : VieEnRose\_6, Celia\_6, Itza\_6
- Track 458 : phiSASD1\_22
- Track 459 : Dubu\_2
- Track 460 : Success\_50
- Track 461 : Spooks\_49
- Track 462 : Bimmel\_48
- Track 463 : Lillie\_8, Swann\_8, CosmicSans\_8, Bradshaw\_8, Phrankenstein\_8, TWAMP\_8, Rhodalysa\_8
- Track 464 : Belenaria\_8, Naiad\_8, Nancinator\_8, Natosaleda\_8, StCroix\_8, UhSalsa\_8, Espica\_8, Krishelle\_8, Alatin\_8
- Track 465 : Partridge\_8, Dinger\_8
- Track 466 : Alpacados\_7
- Track 467 : PhailMary\_7
- Track 468 : Erik\_8, Shuman\_8, Rasputin\_8, Gollum\_8, RexFury\_8
- Track 469 : AppleCloud\_6
- Track 470 : AngryOrchard\_7, Takoda\_8
- Track 471 : Yoncess\_8, Bonanza\_8, Bryce\_8, Yogi\_8, Hiro\_8
- Track 472 : Jester\_8, Harlequin\_8
- Track 473 : RGL3\_1
- Track 474 : RER2\_1
- Track 475 : BobbyDazzler\_8
- Track 476 : Abscondus\_29, Culver\_30, Dusty\_29
- Track 477 : Toniann\_30, ClubL\_30, Cucurbita\_32, Engineer\_31, PhinkBoden\_30, Aphelion\_30, Lozinak\_30, Smoothie\_31
- Track 478 : Geeche\_29, Bachita\_32, Norvs\_31
- Track 479 : Miskis\_28
- Track 480 : WilliamBoone\_30
- Track 481 : OneUp\_24
- Track 482 : BrutonGaster\_18
- Track 483 : Flapper\_28
- Track 484 : Turuncu\_28
- Track 485 : GRU1\_terL
- Track 486 : Dalilpop\_29

- Track 487 : GTE5\_terL
- Track 488 : SuperSulley\_25, Bonum\_27, Buggaboo\_25
- Track 489 : MerCougar\_25
- Track 490 : Outis\_25, StarStruck\_25
- Track 491 : GrootJr\_26, Phomeo\_23, Kurt\_24, Emianna\_24, NatB6\_24, Foxboro\_25, Wheezy\_24, NovumRegina\_24, Tracker\_24, Jifall16\_23, Arti\_24
- Track 492 : Kabluna\_27, NosilaM\_27
- Track 493 : Commandaria\_26
- Track 494 : KidneyBean\_24
- Track 495 : GTE8\_13
- Track 496 : Lollipop1437\_29, Skysand\_26, Patio\_27, Ennea\_30, Float294\_26
- Track 497 : RedRaider\_31
- Track 498 : IDyn\_25, Pemberton\_27
- Track 499 : Marietta\_26, NadineRae\_24
- Track 500 : Sukkupi\_26, Yndexa\_26, BiPauneto\_27
- Track 501 : WhoseManz\_26
- Track 502 : HubbaBubba\_22
- Track 503 : Pleakley\_33, Fury\_33
- Track 504 : HomeFry\_30
- Track 505 : Scuba\_33
- Track 506 : Polyuyuki\_28, Braxoaddie\_28
- Track 507 : Apiary\_28, Maselop\_28, CoffeeBean\_28
- Track 508 : GuyFagieri\_28
- Track 509 : MacGully\_32
- Track 510 : Sopespian\_4, Elliott\_4, PsychoKiller\_4
- Track 511 : RSchmailz\_5
- Track 512 : MScarn\_6, Horseradish\_5, Yummy\_5, Blondies\_5
- Track 513 : Azira\_6
- Track 514 : Agatha\_4
- Track 515 : Carsonalex\_5
- Track 516 : RanchParmCat\_7
- Track 517 : Quasar\_4, Bubble\_4, Nina\_4
- Track 518 : Hexbug\_5
- Track 519 : PotPie\_4
- Track 520 : KayGee\_4, Bavilard\_4
- Track 521 : Survivors\_6, Nibbles\_6, MaVan\_6
- Track 522 : Biskit\_5, Buttrmlkdreams\_4, Troje\_4, SketchMex\_3
- Track 523 : Orla\_5
- Track 524 : GiKK\_7
- Track 525 : Dre3\_4, Cleo\_4, Gibbous\_4
- Track 526 : CocoaPuff\_3, Balloona\_3
- Track 527 : Lauer\_3
- Track 528 : Yucky\_4
- Track 529 : Socotra\_5, GoldHunter\_5, RedBaron\_5
- Track 530 : Amok\_3
- Track 531 : Cozz\_4, Burnsey\_4, Starburst\_5, ChickenTender\_6, Axym\_4
- Track 532 : MunkgeeRoachy\_4
- Track 533 : SummitAcademy\_3
- Track 534 : ElJefes\_3
- Track 535 : MAnor\_4
- Track 536 : Nodigi\_5
- Track 537 : Yakult\_5
- Track 538 : Feastonyeet\_3, BigChungus\_3

- Track 539 : HippoPololi\_6
- Track 540 : CherryonLim\_5
- Track 541 : Zareef\_6
- Track 542 : GTE2\_02
- Track 543 : AndPeggy\_3, Yarn\_3
- Track 544 : Typhonomachy\_4
- Track 545 : Vine\_5
- Track 546 : Tolls\_6
- Track 547 : CaramellLatte\_4, CanesSauce\_4, ChocoMunchkin\_4
- Track 548 : Elinal\_5
- Track 549 : Wolfwood\_7
- Track 550 : BillDoor\_6
- Track 551 : SteamedHams\_6
- Track 552 : Emalyn\_3
- Track 553 : McDazzle\_3
- Track 554 : SheckWes\_3
- Track 555 : AikoCarson\_3
- Track 556 : Mayweather\_5
- Track 557 : Fribs8\_5
- Track 558 : RADical\_5
- Track 559 : Button\_5
- Track 560 : Margaret\_7
- Track 561 : Jamzy\_7
- Track 562 : Pons\_4
- Track 563 : SweatNTears\_6
- Track 564 : Confidence\_2
- Track 565 : Bradissa\_2
- Track 566 : Angelique\_2
- Track 567 : BritBrat\_2, Pollux\_2, EnalisNailo\_2, Marteenaa\_2, Lilas\_2, EMSquaredA\_2, Floral\_2
- Track 568 : Jablanski\_2, Pytheas\_2
- Track 569 : Wrigley\_2
- Track 570 : Posh\_2
- Track 571 : BeeGee\_2
- Track 572 : Cashline\_2
- Track 573 : LonelyBoi\_2
- Track 574 : Cardigan\_30
- Track 575 : Yvonnetastic\_28
- Track 576 : DatBoi\_13
- Track 577 : SpeedDemon\_130
- Track 578 : Mollymur\_13
- Track 579 : Bantam\_12
- Track 580 : Daredevil\_12, Towmatter\_11
- Track 581 : MortyNRick\_2, BearBQ\_2
- Track 582 : Birdsong\_2
- Track 583 : Apricot\_2
- Track 584 : Crater\_2
- Track 585 : Kuwabara\_2
- Track 586 : UtzChips\_2, Barnstormer\_2
- Track 587 : IAmGroot\_2, GardenState\_2
- Track 588 : Honk\_2
- Track 589 : Forester\_4, Gretchen\_2, SuperHands\_2, Percival\_2
- Track 590 : Mabodamaca\_2

- Track 591 : Caron\_2
- Track 592 : Cen1621\_2
- Track 593 : Floof\_2
- Track 594 : SuMoo\_2
- Track 595 : Zeta1847\_2
- Track 596 : Kimchi1738\_12
- Track 597 : Stickynote\_14
- Track 598 : PeteyPab\_12, Zion\_12, PotatoChip\_12
- Track 599 : Cruella\_12
- Track 600 : C3PO\_12
- Track 601 : Darwin\_15
- Track 602 : TouchMeNot\_3, Colleen\_3, Poushou\_3, Arianna\_3
- Track 603 : Clank\_2
- Track 604 : Rita\_2, Phalconet\_2, CaptainTrips\_3, DotProduct\_2, SG4\_2, Phasih\_2, PatoPoderoso\_2, Ardmore\_2, Jant\_2, PopTart\_2, Minnie\_2, QuickMath\_2, Emma\_2, Ovechkin\_2, Dante\_2, Tweety\_2, Krakatau\_3, Sandalphon\_2, MinionDave\_3, Hamulus\_2, SassyB\_2
- Track 605 : LunaBlu\_2, NewHope4\_2, Galactic\_2
- Track 606 : Scottish\_2, KingMidas\_2, OldBen\_2, Daenerys\_2, Inventum\_2, RedBird\_2, RitaG\_2, BodEinwohner17\_2, JoeyJr\_2, Spoonbill\_2, Dorothy\_2, Empress\_2, BlueCrab\_2, Pacc40\_2, Nimbo\_2, Radiance\_2, Deb65\_2, PHappiness\_2, Doomphist\_2, Sassafras\_2, Poenanya\_2, Geralt\_2
- Track 607 : OlympiaSaint\_2, NormanBulbieJr\_2, Crumble\_2, Pippy\_2, LastJedi\_2, Priscilla\_2, Koella\_2, Clifton\_2, Cabrinians\_2, FreddyB\_2
- Track 608 : Eish\_2
- Track 609 : ByChance\_2, Lizziana\_2, ShowerHandel\_2, SwagPigglett\_2, Martik\_2
- Track 610 : Wachhund\_2
- Track 611 : Ibhubesi\_2, Harley\_2
- Track 612 : Saal\_2, Brocalys\_2, Gorge\_2
- Track 613 : VRedHorse\_2
- Track 614 : Doug\_2, Philus\_2, LilMoolah\_2, Moonbeam\_2, Eradicator\_2
- Track 615 : Vivum\_2
- Track 616 : Nivrat\_2
- Track 617 : Phanphagia\_2, Kenuha5\_2, Zizzle\_2, Bipolar\_2, MadMen\_2, Medindi\_2, Fastidio\_2, Melissaueren88\_2, Shauna1\_2, Aubs\_2, MilleniumForce\_3, DillTech15\_2, Chuckly\_2, KingJulian\_2, Taj\_2, SuperGrey\_2, EleanorGeorge\_2, Donkeykong\_2, Karhdo\_2, Bubbles123\_2, StAnnes\_2, XFactor\_2, Corium\_2, Fruitloop\_2, Batiatus\_2, Whatsapiecost\_2, ShroomBoi\_2, Filuzino\_2
- Track 618 : Violac\_2
- Track 619 : Juniper1\_2
- Track 620 : Modragons\_2
- Track 621 : Hlubikazi\_2, Mandlovu\_2, Strokeseat\_2
- Track 622 : Spartacus\_2, IrishSherpFalk\_2, WillSterrel\_2
- Track 623 : MilanaBonita\_3, Firehouse51\_2, Akhila\_3, Royals2015\_2
- Track 624 : Chevrolet\_2, ArcusAngelus\_2
- Track 625 : Mattes\_2
- Track 626 : PhesterPhotato\_2
- Track 627 : Jennelsea\_2
- Track 628 : Wee\_2, DeadP\_2
- Track 629 : Jarcob\_2, ShiLan\_2
- Track 630 : Latretium\_2
- Track 631 : IbOuu\_2, DaddyRickover\_2
- Track 632 : EmiMonkey\_2, Gandalph\_2, GigiOuiOui\_2, Mantra\_2, PhlipPhlop\_2

- Track 633 : Zerg\_2
- Track 634 : Girr\_2, Ruby\_2, MisterCuddles\_2, SiSi\_2
- Track 635 : Polo2Bam\_2, Enzomatic\_2
- Track 636 : Phatniss\_2
- Track 637 : Grimmer\_3
- Track 638 : Hades\_2
- Track 639 : Topiatin\_4
- Track 640 : Kersh\_2
- Track 641 : KristaRAM\_3
- Track 642 : Blexus\_2
- Track 643 : Mutaforma13\_2
- Track 644 : Whouxphf\_2
- Track 645 : TDanisky\_2, Sparkdehlily\_2, DRBy19\_2
- Track 646 : DLane\_2
- Track 647 : Fancypants\_2
- Track 648 : Yorick\_2
- Track 649 : Llama\_2, Jinglebell\_2, Ochi17\_2
- Track 650 : GUmbie\_2, Veteran\_2
- Track 651 : Estave1\_2
- Track 652 : Seabastian\_2, AlpineSix\_2, OfUltron\_2
- Track 653 : Florinda\_2
- Track 654 : PMC\_2, Rockne\_2
- Track 655 : Ms6\_2
- Track 656 : Maravista\_2
- Track 657 : DoRead\_2
- Track 658 : Che8\_2
- Track 659 : Llij\_2
- Track 660 : BobaPhett\_2
- Track 661 : Guppsters\_2
- Track 662 : IMpilo\_2
- Track 663 : Mwanjiwa\_2
- Track 664 : Burwell21\_2
- Track 665 : Sabbb\_2
- Track 666 : James\_2, Polka14\_2
- Track 667 : Leperchaun\_2
- Track 668 : Byougenkin\_2
- Track 669 : Nitzel\_3
- Track 670 : Cheesepuff\_2
- Track 671 : Mahavrat\_2
- Track 672 : Renaud18\_2, TChen\_2, ThetaBob\_2, LunaStella\_2
- Track 673 : Cornie\_2
- Track 674 : Toron\_2
- Track 675 : MulchSalad\_2
- Track 676 : Hum25\_2
- Track 677 : JoieB\_36, Marvin\_33, Lilbit\_34, Poise\_35, Beelzebub\_39, RedRaider77\_35, Huphlepuuff\_37, Raela\_35, Blackbeetle\_35, LittleLaf\_35, FeliMaine\_37, Pringar\_35, MosMoris\_33, Gattaca\_34, Caprice\_32, Corazon\_33, GoongGoong\_34, VasuNzinga\_35, Tesla\_34, Clarkson\_36
- Track 678 : Bernal13\_3, Nairb\_3, RonRayGun\_3, ZenTime222\_3, Whitty\_3, Ibrahim\_3
- Track 679 : Nette\_3
- Track 680 : Mendokysei\_2
- Track 681 : RunningOnE\_64

- Track 682 : Stellammi\_2
- Track 683 : Samy\_5
- Track 684 : Kromp\_2
- Track 685 : TPA4\_2
- Track 686 : Ibantik\_67
- Track 687 : GMA4\_2
- Track 688 : Footloose\_2
- Track 689 : ChewyVIII\_38
- Track 690 : GAL1\_4
- Track 691 : DS6A\_5
- Track 692 : Juicebox\_3
- Track 693 : Tailonex\_9
- Track 694 : Attoomi\_3

***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 62, it was called in 371 of the 1399 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• A6\_09, AFIS\_11, AbbysRanger\_11, Abbyshoes\_12, Abdiel\_11, Abrogate\_120, Achebe\_11, Adahisdi\_12, Aeneas\_13, Agaliana\_11, Ajay\_11, Albee\_11, Alberto7\_12, Aldrich\_12, Alsfro\_15, Altman\_12, Alvin\_12, Annyong\_11, Applejack\_11, Arcanine\_12, Arlo\_10, Arturo\_10, Atkinbua\_12, AvatarAhPeg\_11, Avle17\_11, B1\_09, BK1\_09, BPBiebs31\_12, Baby16\_11, BabyJohn\_10, BabyRay\_11, Backyardigan\_11, BaconJack\_13, Badger\_11, BangNhom\_10, Barriga\_11, BarrowTuph\_10, Bartimeaus\_11, BeesKnees\_12, BellusTerra\_11, BigPaolini\_12, Bigchungi\_11, Bigfoot\_10, BillKnuckles\_12, Bircsak\_11, Blackflame\_11, Blackmoor\_11, Blessor\_11, BluSpix\_11, BlueBird\_12, Blue\_11, Bob3\_10, Bombshell\_11, Bones\_11, Briton15\_13, Broseidon\_11, Bruiser\_11, BubbleTrouble\_11, Bugatti\_11, Bumblebee11\_11, Burger\_10, Buttons\_12, Bxb1\_10, CactusRose\_10, Caelakin\_11, Camperdownii\_10, Carlyle\_13, CatBus\_12, Caviar\_12, CentreCat\_11, Cerulean\_11, ChampagnePapi\_11, Chanagan\_10, Chaph\_11, Chiqui\_10, ChristmasHams\_11, Chupacabra\_11, Ciao\_11, Cici\_11, Cindaradix\_10, Cintron\_11, Citius\_11, Clammy\_11, Clarenza\_11, Cocoaberry\_11, Commander\_11, ConceptII\_11, Connomayer\_11, Corvo\_11, Crispicous1\_10, Cueylyss\_11, DD5\_12, Datway\_11, Deano\_11, Dexes\_12, Dhanush\_11, DirtDevil\_12, DirtyDunning\_11, DontArgue\_10, Doom\_11, DrFeelGood\_10, Drake94\_10, Dreamboat\_12, DroogsArmy\_12, DropBear\_11, Druantia\_11, Dulcie\_10, Dussy\_12, DustyMartin\_14, Dynamix\_12, Eagle\_10, Eaglepride\_12, Eapen\_11, Edison31\_11, Edtherson\_12, EnzoK\_12, Eris\_11, Eros\_11, Espresso\_11, EtoileNova\_12, Euphoria\_11, Eurydice\_11, Eyeball\_11, Fascinus\_10, Florean\_11, Flux\_11, FlyCatcher\_15, Forsytheast\_10, Francis47\_11, Fred313\_11, Froghopper\_12, Funston\_11, GMonster\_10, Gachnar\_11, Gadost\_11, Gandalf20\_12, Giroux\_12, Gompeii16\_11, Goose\_11, Graduation\_13, GrecoEtereo\_12, GroundGoblin\_12, Gwendoluna\_13, HINdeR\_11, HamSlice\_10, Hani1\_13, HanShotFirst\_11, Happiness\_11, HarryOW\_12, Heathen\_11, HelDan\_11, Hermia\_13, HermioneGrange\_12, Holli\_11, Homines\_11, Hookmount\_12, Hope4ever\_11, Houdini22\_11, Huxley\_11, ICleared\_11, ILeeKay\_13, Iceman\_11, Ichabod\_12, Idleandcovert\_11, IgnatiusPatJac\_10, Inyanga\_10, Iqorha\_10, Iracema64\_11, Isca\_11, JC27\_13, JF2\_11, JF4\_11,

JackSparrow\_12, Jasper\_12, Jaykayelowell\_11, JetBlade\_11, JoongJeon\_11, Jorgensen\_11, JuliaChild\_13, KBG\_12, KFPoly\_11, KSSJEB\_11, Kachowdy\_11, Kamy\_11, Kanely\_12, Katalie136\_11, KekoraPapaka\_10, KikiBouba\_12, Killigrew\_9, Kimona\_8, Kingmustik0402\_11, KittenMittens\_10, Koan\_11, Koreni\_10, Kratak\_11, Kremtemulon\_11, Kristoff\_12, Kugel\_12, KyMonks1A\_13, Kyee\_11, Kykar\_9, LHTSCC\_11, Lambert1\_12, Lamina13\_11, LappelDuVide\_11, Lemur\_11, Lesedi\_10, Licorice\_13, LilBib\_12, LittleB\_11, LittleGuy\_11, LochMonster\_11, Lockley\_11, Lorenzo\_11, LunarLander\_11, Lunsford\_12, MA5\_11, MK4\_11, MPlant7149\_10, Magnar\_11, Magnito\_10, Manatee\_12, Marcell\_11, Marchesa\_11, Marchy\_10, Marco3\_11, Margo\_12, Maroc7\_10, Marsha\_11, MaryBeth\_11, Maverick\_11, Maxo\_11, Mayonnaise\_11, Mazhar510\_11, McGuire\_12, McSinger\_12, Medusa\_11, MeeZee\_11, Melvin\_11, MetalQZJ\_11, Michley\_11, MilleFeuille\_8, Miramae\_11, Molly\_12, Moose\_10, Morpher26\_11, MrGordo\_11, Mryolo\_10, Mule\_11, Mundrea\_11, NEHalo\_11, Nebs\_11, Nerujay\_12, Nhonho\_11, Noella\_12, Noelle\_11, Norbert\_11, NorthStar\_11, Norz\_13, NotAPhaseMom\_11, Noxious\_12, Nyxis\_11, OKCentral2016\_11, OKaNui\_11, Obama12\_11, Ohfah\_11, Ohno789\_10, Oogway\_10, PP\_21, PSullivan\_13, PacerPaul\_11, Palestino\_11, Panamaxus\_12, Papez\_13, Paphu\_10, Paraselene\_10, Pari\_12, Parliament\_10, PascalRango\_10, Payneful\_11, PeaceMeal1\_10, Peaches\_11, Pelly\_12, Pepe\_12, Perplexer\_11, Perseus\_12, PeterPeter\_11, Peterson\_14, PetiteSangsue\_11, Petruchio\_11, Phacado\_11, Phantastic\_11, Felipe\_11, PherrisBueller\_12, Phighter1804\_11, Phontbonne\_11, PhrostyMug\_11, PinkPlastic\_10, Pinto\_13, Pipcraft\_11, Pistachio\_12, Pita2\_13, Pocahontas\_12, Polymorphads\_11, Poompha\_10, Popcicle\_12, PowerRanger\_11, ProMouse\_10, Pumbaa\_11, Puppet\_11, Puppy\_12, QTRLifeCrisis\_11, QuinnKiro\_11, Raid\_12, Rajelicia\_11, Rebeuca\_12, Relief\_11, ResDef\_12, RhynO\_12, Rhynn\_11, RidgeCB\_11, Ringer\_11, RockieBear\_10, Rockstar\_11, Rohr\_12, Roimos\_11, Romney\_11, Roosevelt\_11, Rosa24\_10, Rowdy\_14, Ruin\_11, Ruotula\_10, STLscum\_12, Sabertooth\_11, Sagefire\_12, Sandaddy\_10, Sanya\_10, SarFire\_11, SaturnRing\_11, Scamp\_11, Scout\_11, Scowl\_12, Seabiscuit\_13, Seanderson\_12, SenorClean\_11, Severus\_10, Shaka\_11, Shapes\_14, Sheen\_13, SheldonCooper\_11, ShortQueendom\_10, Shygu2\_11, SkiPole\_13, Slagathor\_12, Smairt\_12, Smeagol\_12, Snazzy\_9, Solon\_11, Sorpresa\_11, Sparxx\_11, Spino\_11, Squee\_12, Stasia\_12, SteMason\_10, StewieG\_10, Stink\_11, Sultana\_11, Sumter\_10, Sunshine924\_10, SwissCheese\_11, Switzer\_12, Swole\_13, TNguyen7\_11, Taquarus\_11, Target\_13, Tasp14\_12, Teodoridan\_9, Texage\_11, Thanksgivukkah\_11, TheloniousMonk\_13, Thor\_11, Timshel\_12, TinaFeyge\_11, Tinybot\_10, TiroTheta9\_11, Todacoro\_12, Topanga\_11, Topgun\_11, Toro\_14, Tote\_13, Traft412\_13, Trike\_9, Tripl3t\_12, Trouble\_11, TroyPia\_11, Turj99\_10, Twister\_11, TwoPeat\_12, TygerBlood\_11, U2\_11, Ulysses\_10, Veracruz\_11, WalterMcMickey\_11, Wander\_11, Watermelon\_13, Wheeler\_11, Whitspit\_12, Wilbur\_11, Wile\_11, Wilkins\_11, Wizard007\_11, Xena\_11, YoSam321\_11, Zarafa\_11, Zeeculate\_10, Zephyr\_11, Zeuska\_12,

Genes that have the "Most Annotated" start but do not call it:

- LeoAvram\_11, Nemo27\_11, Skipitt\_11,

Genes that do not have the "Most Annotated" start:

- 20ES\_12, 40AC\_15, 8UZL\_5, ACFishhook\_13, AEgle\_2, AGrandiflora\_2, AN3\_12, AN9\_15, ANI8\_15, Aaronocolus\_6, AbbyPaige\_14, Abscondus\_29, Acme\_13, Acolyte\_12, Adolin\_2, Adumb2043\_2, Adzzy\_13, Agape74\_14, Agatha\_4, AgentM\_9, Aglet\_13, AgronaGT15\_13, AikoCarson\_3, AinMach\_2, Airmid\_9, Akhila\_3, Alatin\_8, Aliter\_13, Alma\_13, Alpacados\_7, AlpineSix\_2, Alsaber\_7, Alvy\_8, Amela\_6, Amethyst\_6, Amok\_3, Amploria\_2, Amyev\_2, Anaysia\_14, AndPeggy\_3, Andris\_6,

Aneem\_12, Anekin\_2, Angelique\_2, AngryOrchard\_7, Animus\_7, AnnaL29\_15, Anon\_12, Anselm\_12, Anthony\_11, Anubis\_15, Aphelion\_30, Apiary\_28, AppleCloud\_6, Apricot\_2, Aragog\_9, ArcherNM\_14, Archetta\_9, ArcusAngelus\_2, Ardmore\_2, Arianna\_3, Arissanae\_11, Artemis2UCLA\_15, Arti\_24, Asa16\_2, Ascela\_2, Ashballer\_10, Ashes\_2, Asten\_6, Astro\_9, Attoomi\_3, Aubs\_2, AugsMagnumOpus\_15, Axiom\_7, Axym\_4, Ayanochan\_14, Azira\_6, BABullseye\_15, BabyBack\_14, Bachita\_32, Bachome\_12, Bactobuster\_13, Baehexic\_13, Balloona\_3, Bantam\_12, Barnstormer\_2, BarryBee\_8, BartholomewSD\_8, Batiatius\_2, Battleship\_15, Bavilard\_4, BearBQ\_2, BeardedLady\_7, Beaupre\_2, Beauxregard13\_13, BeeGee\_2, Beelzebub\_39, Beemo\_13, Belenaria\_8, Bellris\_10, Benedict\_9, BengiVuitton\_13, BennyP\_15, Benvolio\_12, Bernal13\_3, Berrie\_2, BiPauneto\_27, BiancaTri92\_14, BigChungus\_3, BigMau\_13, Bigflo\_13, BillDoor\_6, Bimmel\_48, Bipolar\_2, Birdsong\_2, Biskit\_5, Blackbeetle\_35, BlessJoy\_15, Blexus\_2, Blinn1\_15, Blondies\_5, Blue7\_15, BlueCrab\_2, Bluefalcon\_8, BobSwaget\_15, BobaPhett\_2, BobbyDazzler\_8, BodEinwohner17\_2, BogosyJay\_13, Bonamassa\_9, Bonanza\_8, Bonum\_27, Boohoo\_14, Bovely\_6, Bowden\_7, Bowtie\_12, Bradissa\_2, Bradman\_11, Bradshaw\_8, Brataylor\_7, Braxoaddie\_28, BreSam8\_13, BritBrat\_2, BroPlease\_7, Brocalys\_2, Bruns\_10, BrutonGaster\_18, BryanRecycles\_7, Bryce\_8, Bubble\_4, Bubbles123\_2, Bud\_12, Buggaboo\_25, Bugsy\_14, Burnsey\_4, Burton\_12, Burwell21\_2, Button\_5, Buttrmkdreams\_4, BuzzBuzz\_12, Bxz2\_13, ByChance\_2, Byougenkin\_2, C3PO\_12, C3\_10, CRB1\_12, Cabrinians\_2, Caelum\_7, Caitlin\_8, Caliburn\_6, Calvinny\_14, Candra\_15, CanesSauce\_4, Cappuccino\_2, Caprice\_32, CaptainTrips\_3, CaramelLatte\_4, Caraxes\_11, Cardigan\_30, Caron\_2, Carsonalex\_5, Cashline\_2, Cassia\_2, Catalina\_13, Celery\_8, Celeste\_6, Celestiallunch\_12, Celia\_6, Cen1621\_2, Centaur\_14, Chadwick\_10, Changeling\_15, Chargerpower\_12, Charm\_12, Chartreuse\_15, Che12\_13, Che8\_2, Cheesepuff\_2, CherryonLim\_5, Chevrolet\_2, ChewyVIII\_38, ChickenTender\_6, ChipMunk\_14, ChocoMunchkin\_4, Chuckly\_2, Chucky\_6, Clank\_2, Clarkson\_36, Cleo\_4, Clifton\_2, CloudWang3\_15, ClownCar\_14, ClubL\_30, CocoaPuff\_3, CoffeeBean\_28, CogOmlette\_10, Colbster\_13, Colin\_16, Colleen\_3, Commandaria\_26, Community\_3, Conan\_7, Confidence\_2, Conquerage\_13, Conspiracy\_9, Coog\_9, Cookiedough\_15, Corazon\_33, Corium\_2, Cornie\_2, CosmicBrownie\_2, CosmicSans\_8, Cozz\_4, Crater\_2, Crewmate\_3, Croquant\_14, Crucio\_12, Cruella\_12, Crumble\_2, Cuco\_9, Cucurbita\_32, Cullens\_13, Culver\_30, Cyan\_2, D29\_13, D32\_15, DBQu4n\_15, DLane\_2, DRBy19\_2, DS6A\_5, DaHudson\_13, DaVinci\_15, DaddyRickover\_2, Daenerys\_2, Daishi\_12, Dalilpop\_29, Dalmatian\_12, Danforth\_8, Dante\_2, Danzina\_7, Daredevil\_12, Darrell\_14, DarthPhader\_13, Darwin\_15, DatBoi\_13, Dattran\_7, Daudau\_6, DeadP\_2, Deb65\_2, DeerParkTS\_13, DekHockey33\_14, Deloris\_13, DelvinSonDorr\_14, Dexers\_5, Diane\_6, Dieselweasel\_13, Dignity\_14, DillTech15\_2, Dinger\_8, Discoknowium\_9, Dixon\_9, DoRead\_2, Donkey\_2, Donkeykong\_2, Doomphist\_2, Dorothea\_15, Dorothy\_2, DotProduct\_2, Doug\_2, DrManhattan\_2, DrSierra\_2, Drake55\_14, Dre3\_4, DreamCatcher\_14, DreamTeam1\_12, Dublin\_8, Dubu\_2, DudeLittle\_12, Duplo\_15, Dusty\_29, Dwayne\_6, ELB20\_05, EmsquaredA\_2, EZMoney23\_16, EagleEye\_14, Ebony\_12, Echild\_12, Eddasa\_7, EdogawaKiddo\_11, Eidsmoe\_13, Eish\_2, Ejemplo\_6, ElGato\_7, ElJefes\_3, ElTiger69\_9, EleanorGeorge\_2, Elephantoon\_13, Elezi\_2, Elinal\_5, Elliott\_4, Elle\_12, Emaanora\_8, Emalyn\_3, EmiMonkey\_2, Emianna\_24, Emma\_2, Emotion\_2, Empress\_2, EmyBug\_13, EnalisNailo\_2, Engineer\_31, Ennea\_30, EnochSoames\_7, Enzomatic\_2, EpicPhail\_13, Epsocamisio\_14, Equemioh13\_14, Eradicator\_2, Eraser\_2, EricB\_15, Erik\_8, Esperer\_6, Espica\_8, Estave1\_2, Et2Brutus\_11, EvilGenius\_14, Exile\_2, Expelliarmus\_8, ExplosioNervosa\_13, FF47\_05, Fajezeel\_13, Fameo\_12, Fancypants\_2, Farber\_13, Farewell\_2, Fastidio\_2, FatCactus\_10, Fayely\_13, Feastonyeet\_3, FeliMaine\_37,

Fernando\_13, Fibonacci\_12, Filuzino\_2, Firehouse51\_2, FiringLine\_12, First\_0012, FiveHead\_2, Flapper\_28, Flare16\_12, Flaverint\_12, Float294\_26, Floof\_2, Floral\_2, Florence1\_9, Florence4\_10, Florinda\_2, Flutur\_2, Footloose\_2, ForGetIt\_9, ForesterFrank\_13, Forester\_4, Foxboro\_25, FreddyB\_2, Fribs8\_5, Fruitloop\_2, Fury\_33, Fushigi\_12, GAL1\_4, GMA4\_2, GRU1\_terL, GTE2\_02, GTE5\_terL, GTE8\_13, GUmble\_2, GageAP\_13, Gail\_11, Galactic\_2, Gambol\_2, Gandolph\_2, Garak\_16, GardenState\_2, Gattaca\_34, GaugeLDP\_14, Geeche\_29, Gemma\_13, George\_8, Georgie2\_13, Geralt\_2, Ghoulboy\_9, GiKK\_7, Gibbous\_4, GigiOuiOui\_2, Gilberta\_12, GingkoMaracino\_13, Giorgio\_2, GirlDinner\_6, Girr\_2, Gladiator\_15, Goby\_6, Godpower\_7, GoldHunter\_5, Gollum\_8, GoongGoong\_34, Gorge\_2, Gratitude\_13, GreedyLawyer\_15, GreenWeasel\_8, Greg\_13, Gretchen\_2, Grif\_13, Grimmer\_3, GrootJr\_26, Groundhog\_8, Groupthink\_14, Grub\_13, Grum1\_13, Gruunaga\_15, GtownJaz\_13, Gumpizza\_2, Guppsters\_2, GuyFagieri\_28, Gwennie\_12, Gyzlar\_13, Hades\_2, Haizum\_6, Halsey\_2, Hammer\_15, Hamulus\_2, Hank144\_7, Hanray\_12, Harlequin\_8, Harley\_2, HarryHoudini\_14, HashRod\_14, HaveUMetTed\_14, Heffalump\_14, Heliosoles\_13, Helmet\_15, Herbertwm\_10, Hercules11\_13, Hestia\_2, Hexamo\_15, Hexbug\_5, HippoHollow\_13, HippoPololi\_6, Hippo\_6, Hiro\_8, Hlubikazi\_2, Horex\_12, HomeFry\_30, Honk\_2, Hoot\_15, Horseradish\_5, HortumSL17\_13, HubbaBubba\_22, HuhtaEnerson15\_9, Hum25\_2, Huphlepuuff\_37, Hutc2\_12, Hydra\_8, IAmGroot\_2, IDyn\_25, IMpilo\_2, IUFootball\_2, IbOuu\_2, Ibantik\_67, Ibhubesi\_2, Ibrahim\_3, Indigo\_6, Indra\_15, Insomnia\_12, Inventum\_2, IrishSherpFalk\_2, IronMan\_14, Isiphiwo\_15, Issmi\_7, Iter\_2, IttyBittyPiggy\_2, Itza\_6, Iwokeuplikedis\_12, Izzy\_7, JHC117\_13, JSwag\_14, Jaan\_15, Jabiru\_9, Jabith\_12, Jablanski\_2, JacoRen57\_2, James\_2, Jamzy\_7, Janeemi\_3, Jant\_2, Janus\_7, Jarcob\_2, Jash\_7, JasmineDragon\_2, Jeeves\_11, Jeffabunny\_15, JenCasNa\_13, Jennelsea\_2, JeppNRM\_14, Jerm2\_12, Jerm\_14, Jester\_8, Jevington\_8, JewelBug\_15, Jhitchelle\_6, Jiawan\_12, Jifall16\_23, Jinglebell\_2, Jobu08\_13, Joemato\_2, JoeyJr\_2, JohnDoe\_2, JohnThicc\_2, JoieB\_36, Jordennis\_15, Joselito\_12, JoshKayV\_14, Journey13\_10, Jovo\_9, Jsquared\_11, Jstan\_2, Juicebox\_3, JuneStar\_2, Juniper1\_2, KADY\_14, Kabluna\_27, Kaine\_6, Kalb97\_14, Kalimba\_2, Kalnoky\_14, Kalpine\_15, Karhdo\_2, Katalie\_7, KatherineG\_14, KayGee\_4, Kaylissa\_2, Kazan\_15, KeAlii\_2, Kenmech\_14, Kenuha5\_2, Kerberos\_15, Kersh\_2, Keziacharles14\_11, KidneyBean\_24, Kimba\_12, Kimchi1738\_12, KingCyrus\_14, KingJulian\_2, KingMidas\_2, Kinmap\_11, Kipper29\_15, Klodlith\_12, Koduck\_12, Koella\_2, Koko\_15, Krakatau\_3, Krishelle\_8, KristaRAM\_3, Kromp\_2, Kurt\_24, Kuwabara\_2, L5\_13, LBerry\_13, LadyAstra\_2, LadyBird\_12, Landor\_13, Lannister\_7, Larenn\_13, LarryKay\_13, LastJedi\_2, LastResort\_14, Latretium\_2, Lauer\_3, Legacy\_6, Lego\_2, Leogania\_14, Leperchaun\_2, Lev2\_9, Leviathan\_14, Leviticus\_6, Liebe\_2, Lika\_6, LilMoolah\_2, LilTurb\_14, Lilas\_2, Lilbit\_34, Lilbunny\_15, Lilith\_13, Lilleskat\_11, Lillie\_8, LionsBait\_13, LittleCherry\_9, LittleLaf\_35, Lizalica\_2, Lizziana\_2, Llama\_2, Llij\_2, Lokk\_15, Lollipop1437\_29, London\_2, LoneWolf\_13, LonelyBoi\_2, LongHai\_6, Loofah\_7, Looper\_15, Lorelei\_6, Loser\_15, Louie6\_13, Iowa\_13, Lozinak\_30, Luchador\_12, Lucivia\_12, Lucyedi\_13, LugYA\_15, LunaBlu\_2, LunaStella\_2, MAnor\_4, MScarn\_6, MUWow\_2, MaCh\_12, MaGuCo\_2, MaVan\_6, Mabel\_12, Mabodamaca\_2, MacGully\_32, Maco6\_3, MadMarie\_13, MadMen\_2, Mahavrat\_2, Mainiac\_13, MajorMajor\_11, MalagasyRose\_7, Malec\_13, Malinsilva\_15, Maminiaina\_13, Mandlovu\_2, Maneekul\_6, Mantra\_2, Manu\_14, Mapleville\_3, MarQuardt\_13, Marav\_9, Maravista\_2, Margaret\_7, Marge\_12, Marie\_13, Marietta\_26, Marius\_14, Marteen\_2, Martik\_2, Marvin\_33, MarysWell\_8, Maselop\_28, Mattes\_2, Maureen\_2, Mayweather\_5, McDazzle\_3, McFly\_15, Medindi\_2, MegTheThird\_11, Melissauren88\_2, Mendokysei\_2, MerCougar\_25, Methuselah\_13, Micasa\_9, Microwolf\_13, MiculUcigas\_12, Midas2\_9, Miko\_15,

MilanaBonita\_3, Milcery\_9, MilleniumForce\_3, Millski\_11, MinecraftSteve\_15, MiniMommy\_2, MinionDave\_3, Minispark\_10, Minnie\_2, Miskis\_28, Misomonster\_15, MissSwiss\_2, MissWhite\_12, MisterCuddles\_2, Mkhuseleli\_12, Modragons\_2, Mollymur\_13, Monet\_13, MoneyMay\_13, Montavir\_12, Moonbeam\_2, Morrow\_11, MortyNRick\_2, MosMoris\_33, Moss\_2, Ms6\_2, MuchMore\_15, Muddy\_5, Mudpuppy\_2, MulchSalad\_2, Mulciber\_12, Munch\_12, MunkgeeRoachy\_4, Museum\_13, Mutaforma13\_2, Mwanjiwa\_2, MyraDee\_9, Mystorium\_2, Myxus\_13, NaSiaTalie\_12, Nabi\_6, Naca\_9, NadineRae\_24, Naiad\_8, Nairb\_3, Naji\_15, Nancinator\_8, Nanodon\_8, NatB6\_24, Natosaleda\_8, NearlyHeadless\_9, Nebulosus\_14, Nedarya\_13, Neeharika16\_15, Nerdos\_6, Nergal\_5, Nette\_3, NewHope4\_2, Newrala\_15, Nibbles\_6, NicoleTera\_16, Nimbo\_2, Nina\_4, Niobe\_2, Nishikigoi\_6, Nitro\_2, Nitzel\_3, Nivrat\_2, Niza\_13, NoShow\_2, Nodigi\_5, NormanBulbieJr\_2, Norvs\_31, NosilaM\_27, NothingSpecial\_14, NovumRegina\_24, Nyilah\_2, ObiToo\_2, Ochi17\_2, Odin\_11, OfUltron\_2, OlanP\_13, OldBen\_2, Oliynyk\_7, Ollie\_13, OlympiaSaint\_2, Omar\_7, OneUp\_24, Onglai\_12, Oofda\_14, Orange\_12, Origami\_2, Orla\_5, Outis\_25, Ovechkin\_2, Ozzie\_6, OzzyJ\_7, P28Green\_13, PGHhamlin\_15, PHappiness\_2, PMC\_2, Pablito\_6, Pacc40\_2, PackMan\_13, Paedore\_6, PainterBoy\_13, Paolo\_8, Partridge\_8, Patio\_27, PatoPoderoso\_2, PattyP\_13, Pavo\_7, Pawn\_13, Pemberton\_27, Pembroke\_13, Penny1\_13, Percival\_2, Persistence\_2, Petersenfast\_11, PeteyPab\_12, PetterN\_10, Ph8s\_13, Phaded\_15, Phaeder\_13, PhailMary\_7, Phalconet\_2, Phanphagia\_2, Pharaoh\_12, Phasih\_2, Phatniss\_2, PhesterPhotato\_2, Phettuccine\_6, Phillis\_9, Philus\_2, PhinkBoden\_30, PhishRPhriends\_12, Phives\_3, Phlei\_8, PhilipPhlop\_2, Phlorence\_9, Phoebe\_13, Phomeo\_23, Phonnegut\_13, Phoxy\_13, Phrank15\_2, Phrankenstein\_8, Phranny\_14, PickleBack\_9, Pioneer\_13, Pippin\_13, Pippy\_2, Piro94\_13, Pixelle\_2, Pleakley\_33, Pmask\_15, Poenanya\_2, Poise\_35, Polka14\_2, Pollux\_2, Polo2Bam\_2, Polyphemus\_15, Polylyuki\_28, Pomar16\_15, Pons\_4, PopTart\_2, Posh\_2, PotPie\_4, PotatoChip\_12, PotatoSplit\_14, Poushou\_3, Power\_12, Powerpuff\_2, Priamo\_15, Prinasse11\_10, Pringar\_35, Priscilla\_2, Priya\_13, Provolone\_7, Prudy\_14, PsychoKiller\_4, Puginator\_8, Pukovnik\_14, Pumpkins\_2, PurpleHaze\_13, Pytheas\_2, Qobbit\_13, Quasar\_4, QueenB2\_12, QueenBeesly\_12, QuickMath\_2, Quokka\_10, R4\_6, RADical\_5, RER2\_1, RGL3\_1, RSchmailzl\_5, Rachaly\_15, Radiance\_2, Raela\_35, Rahalelujah\_11, Rana\_6, RanchParmCat\_7, Rasputin\_8, Ravana\_15, ReMo\_14, Reba\_14, RedBaron\_5, RedBear\_8, RedBird\_2, RedRaider77\_35, RedRaider\_31, RedRock\_15, Reedo\_2, Refuge\_15, Remus\_14, Renaud18\_2, Retro23\_12, RexFury\_8, Rhodalysa\_8, Rifter\_15, RitaG\_2, Rita\_2, Roary\_9, RockScotty\_2, Rockne\_2, Roksolana\_15, RonRayGun\_3, Rosalind\_14, Royals2015\_2, Rubeus\_12, Ruby\_2, Rufus\_12, Rummer\_13, RunningOnE\_64, Rusticus\_7, Rutherford\_13, RyeScarlet\_14, SG4\_2, SPB78\_2, Saal\_2, Sabbab\_2, Sabia\_13, Sabinator\_13, Sabourin\_2, Sachima\_11, Saftant\_6, Saintus\_9, Salvus\_6, Salz\_12, Samy\_5, Sandalphon\_2, SarahRose\_6, Saskia\_11, Sassafras\_2, SassyB\_2, Schaffner\_2, Scherzo\_13, Scorpia\_10, Scottish\_2, Scuba\_33, Seabastian\_2, SemperFi\_14, Serenity\_11, ShaktiOph\_2, Sham4\_12, Shauna1\_2, ShayRa\_15, SheaKeira\_12, SheckWes\_3, ShiLan\_2, ShowerHandel\_2, ShroomBoi\_2, Shuman\_8, SiSi\_2, Sibs6\_13, Simpson\_2, Skelbel\_2, SketchMex\_3, Sknot\_12, Skysand\_26, Smeadley\_9, Smeagan\_14, SmellyB\_15, Smoothie\_31, SnapTap\_12, Snape\_12, Snek\_3, Snickers\_13, Snorlax\_6, SoYo\_13, Socotra\_5, SoilDragon\_13, Soondubu\_2, Sooty\_2, Sopespian\_4, SororFago\_11, Soshari\_15, Soups\_14, South40\_7, Sparkdehlily\_2, Sparky\_2, Spartacus\_2, SpecialK\_2, SpeedDemon\_130, Speedwell\_7, Spike509\_13, SpikeBT\_13, Spooks\_49, Spoonbill\_2, Spouty\_13, SqueakyClean\_7, StAnnes\_2, StCroix\_8, Stagni\_13, StarStruck\_25, StarStuff\_15, Starburst\_5, SteamedHams\_6, Steamy\_13, Stellammi\_2, StepMiH\_13, Stephig9\_9, Stickynote\_14, Strokeseat\_2,

Strosahl\_14, Stuu\_2, SuMoo\_2, Subaru\_2, Success\_50, Sudan\_7, Sue2\_2, Sujidade\_7, Sukkupi\_26, SummitAcademy\_3, Sunhee\_10, SunsetPointe\_6, SuperAwesome\_15, SuperCallie99\_15, SuperGrey\_2, SuperHands\_2, SuperSulley\_25, Superchunk\_11, Superstar\_8, Survivors\_6, SwagPigglett\_2, Swann\_8, SweatNTears\_6, SweetiePie\_12, SwirlSquare\_14, Swirley\_9, Switzerland\_14, SydNat\_9, TChen\_2, TDanisky\_2, TPA4\_2, TWAMP\_8, TagePhighter\_7, Tailonex\_9, Taj\_2, Takoda\_8, Tallboi\_2, TarsusIV\_12, Tarynearal\_8, Taurus\_13, Tbone\_2, Tefunt\_6, Temprado\_15, Terrific\_16, Tesla\_34, TforTroy\_2, Theia\_8, Thestral\_7, ThetaBob\_2, ThursdayNight\_2, Tian\_2, Tiffany\_13, Tiger\_9, Timothy\_12, TinaBelcher\_6, TinyPebbles\_13, TinyTimmy\_12, TipsytheTRex\_11, Toaka\_11, Tolls\_6, Toma\_6, Tomathan\_15, ToneTone\_14, Toniann\_30, Topiatin\_4, Toron\_2, TouchMeNot\_3, Towmatter\_11, Tracker\_24, Travvers\_15, Treddle\_13, Tristan\_13, Triste\_6, Triumph\_8, Trixie\_15, Troje\_4, Trooper\_12, TrvxScott\_5, TuanPN\_6, Tubs\_13, Tuck\_3, Tucker\_15, Turab\_2, Turbido\_14, Turuncu\_28, Tutumahutu\_2, Tweety19\_3, Tweety\_2, Twigg\_9, Typhonomachy\_4, Ugenie5\_10, UhSalsa\_8, UnionJack\_9, Unstoppable\_6, Updawg\_14, Urza\_6, UtzChips\_2, VA6\_12, VC3\_15, VRedHorse\_2, VResidence\_2, VWB\_2, Vanisoa\_11, Vanseggelen\_9, VasuNzinga\_35, Verabelle\_7, Verse\_6, Veteran\_2, VieEnRose\_6, Vine\_5, Violac\_2, Vivum\_2, Vix\_13, VohminGhazi\_15, VroomVroom\_2, Wachhund\_2, Waits\_14, Warda\_2, Warrior24\_14, Watson\_13, Wee\_2, WeiHuaDA\_18, Werner\_6, Whabigail7\_14, Whatever\_6, Whatsapiecost\_2, Wheezy\_24, Whitty\_3, WhoseManz\_26, Whouxphf\_2, WideWale\_14, Wiks\_15, Wildwest\_3, WillSterrel\_2, WilliamBoone\_30, Wolfwood\_7, Wolpertinger\_11, Wooldri\_15, WorldCup\_10, Wrigley\_2, WunderPhul\_15, XFactor\_2, XianYue\_12, Yakult\_5, Yang\_2, Yarn\_3, Yasdnil\_6, Yecey3\_12, YesChef\_2, Yindexa\_26, Yogi\_8, Yokurt\_15, Yoncess\_8, Yorick\_2, Yosif\_7, Yucky\_4, Yummy\_5, YvonneTastic\_28, Zainub\_8, Zaka\_15, ZamZam\_9, Zareef\_6, Zemlya\_7, ZenTime222\_3, Zerg\_2, Zeta1847\_2, Zetzy\_12, Zimmer\_14, Zion\_12, Zizzle\_2, Zolita\_8, Zulu\_15, phiCAM\_06, phiSASD1\_22,

### Summary by start number:

#### Start 4:

- Found in 5 of 1609 ( 0.3% ) of genes in pham
- Manual Annotations of this start: 5 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: C3PO\_12 (EN), Cruella\_12 (EN), PeteyPab\_12 (EN), PotatoChip\_12 (EN), Zion\_12 (EN),

#### Start 12:

- Found in 1 of 1609 ( 0.1% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stickynote\_14 (EN),

#### Start 32:

- Found in 2 of 1609 ( 0.1% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Mendokysei\_2 (T),

#### Start 37:

- Found in 46 of 1609 ( 2.9% ) of genes in pham

- Manual Annotations of this start: 19 of 1399
- Called 41.3% of time when present
- Phage (with cluster) where this start called: AgentM\_9 (A5), Archetta\_9 (A5), Bluefalcon\_8 (A5), Conspiracy\_9 (A5), Cuco\_9 (A5), Discoknowium\_9 (A5), Dublin\_8 (A5), ElTiger69\_9 (A5), ForGetIt\_9 (A5), George\_8 (A5), Ghoulboy\_9 (A5), Milcery\_9 (A5), Naca\_9 (A5), Phlorence\_9 (A5), PickleBack\_9 (A5), Swirley\_9 (A5), Tarynearal\_8 (A5), Theia\_8 (A5), UnionJack\_9 (A5),

#### Start 42:

- Found in 54 of 1609 ( 3.4% ) of genes in pham
- Manual Annotations of this start: 30 of 1399
- Called 64.8% of time when present
- Phage (with cluster) where this start called: Airmid\_9 (A5), Aragog\_9 (A5), Astro\_9 (A8), Benedict\_9 (A5), Bonamassa\_9 (A5), Caitlin\_8 (A8), Chadwick\_10 (A5), Coog\_9 (A5), Danforth\_8 (A8), Dixon\_9 (A8), Expelliarmus\_8 (A8), Florence1\_9 (A5), Florence4\_10 (A5), Groundhog\_8 (A8), HuhtaEnerson15\_9 (A5), Jabiru\_9 (A5), Jovo\_9 (A5), Lev2\_9 (A5), LittleCherry\_9 (A5), MarysWell\_8 (A5), Micasa\_9 (A5), Midas2\_9 (A5), NearlyHeadless\_9 (A8), PetterN\_10 (A5), Phillis\_9 (A8), Prinashe11\_10 (A5), Roary\_9 (A8), Saintus\_9 (A8), Scorpia\_10 (A5), Smeadley\_9 (A8), Stephig9\_9 (A8), SydNat\_9 (A5), Tiger\_9 (A5), Twigg\_9 (A5), Zolita\_8 (A5),

#### Start 54:

- Found in 21 of 1609 ( 1.3% ) of genes in pham
- Manual Annotations of this start: 7 of 1399
- Called 38.1% of time when present
- Phage (with cluster) where this start called: Bernal13\_3 (T), Footloose\_2 (singleton), Ibrahim\_3 (T), Nairb\_3 (T), Nette\_3 (T), RonRayGun\_3 (T), Whitty\_3 (T), ZenTime222\_3 (T),

#### Start 57:

- Found in 19 of 1609 ( 1.2% ) of genes in pham
- Manual Annotations of this start: 2 of 1399
- Called 10.5% of time when present
- Phage (with cluster) where this start called: DS6A\_5 (singleton), Provolone\_7 (BD3),

#### Start 58:

- Found in 6 of 1609 ( 0.4% ) of genes in pham
- Manual Annotations of this start: 3 of 1399
- Called 83.3% of time when present
- Phage (with cluster) where this start called: IUFootball\_2 (AZ2), Liebe\_2 (AZ2), MaGuCo\_2 (AZ2), Maureen\_2 (AZ2), ThursdayNight\_2 (AZ),

#### Start 59:

- Found in 101 of 1609 ( 6.3% ) of genes in pham
- Manual Annotations of this start: 85 of 1399
- Called 89.1% of time when present
- Phage (with cluster) where this start called: Aaronocolus\_6 (BD1), Alvy\_8 (BD2), Amethyst\_6 (BD2), Andris\_6 (BD2), Animus\_7 (BD2), Asten\_6 (BD1), Axiom\_7 (BD2), BarryBee\_8 (BD1), BartholomewSD\_8 (BD2), Bovely\_6 (BD1), Bowden\_7 (BD2), Brataylor\_7 (BD1), BryanRecycles\_7 (BD1), Caelum\_7 (BD2), Caliburn\_6 (BD1), Celeste\_6 (BD1), Celia\_6 (BD6), Chucky\_6 (BD1), Danzina\_7 (BD1), Dattran\_7 (BD1), Daudau\_6 (BD2), Diane\_6 (BD2), Dwayne\_6 (BD1), ELB20\_05 (BD2), Eddasa\_7 (BD1), Ejemplo\_6 (BD1), Emaanora\_8 (BD1), FiveHead\_2 (AZ4),

GirlDinner\_6 (BD2), Goby\_6 (BD1), Godpower\_7 (BD1), Haizum\_6 (BD2), Hank144\_7 (BD2), Hippo\_6 (BD1), Hydra\_8 (BD1), Indigo\_6 (BD1), Issmi\_7 (BD2), Itza\_6 (BD6), Izzy\_7 (BD1), Janus\_7 (BD2), JasmineDragon\_2 (AZ4), Jevington\_8 (BD2), JohnThicc\_2 (AZ4), Katalie\_7 (BD1), LadyAstra\_2 (AZ4), Lannister\_7 (BD1), Legacy\_6 (BD1), Lika\_6 (BD1), Loofah\_7 (BD2), Maneekul\_6 (BD1), Marav\_9 (BD2), MiniMommy\_2 (AZ4), Nabi\_6 (BD1), Nanodon\_8 (BD1), Nerdos\_6 (BD1), Nishikigoi\_6 (BD2), Oliynyk\_7 (BD1), Omar\_7 (BD2), Origami\_2 (AZ4), OzzyJ\_7 (BD1), Pablito\_6 (BD2), Paedore\_6 (BD2), Paolo\_8 (BD2), Phettuccine\_6 (BD1), Puginator\_8 (BD2), R4\_6 (BD2), Rana\_6 (BD1), RedBear\_8 (BD1), SarahRose\_6 (BD1), ShakeltOph\_2 (AZ4), Snorlax\_6 (BD1), South40\_7 (BD1), SqueakyClean\_7 (BD2), Sujidade\_7 (BD1), Superstar\_8 (BD2), TagePhighter\_7 (BD1), Tefunt\_6 (BD2), Thestral\_7 (BD2), TinaBelcher\_6 (BD2), Triste\_6 (BD1), TrvxScott\_5 (BD2), TuanPN\_6 (BD1), Urza\_6 (BD6), VieEnRose\_6 (BD6), VroomVroom\_2 (AZ4), Werner\_6 (BD1), Whatever\_6 (BD1), Yasdni\_6 (BD1), Zainub\_8 (BD2), Zemlya\_7 (BD1),

#### Start 61:

- Found in 21 of 1609 ( 1.3% ) of genes in pham
- Manual Annotations of this start: 11 of 1399
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Alsaber\_7 (BD3), Amela\_6 (BD3), Celery\_8 (BD3), Conan\_7 (BD3), Dexers\_5 (BD3), ElGato\_7 (BD3), Emotion\_2 (AZ4), Hitchhike\_6 (BD3), Kaine\_6 (BD3), Pavo\_7 (BD3), Speedwell\_7 (BD3), Sudan\_7 (BD3), Vanseggelen\_9 (BD3), Verabelle\_7 (BD3), Verse\_6 (BD3), Yosif\_7 (BD3), ZamZam\_9 (BD3), phiCAM\_06 (BD3),

#### Start 62:

- Found in 420 of 1609 ( 26.1% ) of genes in pham
- Manual Annotations of this start: 371 of 1399
- Called 99.3% of time when present
- Phage (with cluster) where this start called: A6\_09 (A1), AFIS\_11 (A1), AbbysRanger\_11 (A4), Abbyshoes\_12 (A1), Abdiel\_11 (A4), Abrogate\_120 (A1), Achebe\_11 (A4), Adahisdi\_12 (A1), Aeneas\_13 (A1), Agaliana\_11 (A1), Ajay\_11 (A1), Albee\_11 (A4), Alberto7\_12 (A4), Aldrich\_12 (A1), Alsfro\_15 (A1), Altman\_12 (A1), Alvin\_12 (A1), Annyong\_11 (A4), Applejack\_11 (A1), Arcanine\_12 (A1), Arlo\_10 (A1), Arturo\_10 (A4), Atkinbua\_12 (A1), AvatarAhPeg\_11 (A4), Avle17\_11 (A4), B1\_09 (A3), BK1\_09 (A1), BPBiebs31\_12 (A1), Baby16\_11 (A4), BabyJohn\_10 (A3), BabyRay\_11 (A3), Backyardigan\_11 (A4), BaconJack\_13 (A1), Badger\_11 (A4), BangNhom\_10 (A4), Barriga\_11 (A1), BarrowTuph\_10 (A1), Bartimeaus\_11 (A4), BeesKnees\_12 (A1), BellusTerra\_11 (A4), BigPaolini\_12 (A1), Bigchung\_11 (A1), Bigfoot\_10 (A1), BillKnuckles\_12 (A1), Birscak\_11 (A1), Blackflame\_11 (A1), Blackmoor\_11 (A4), Blesser\_11 (A1), BluSpix\_11 (A1), BlueBird\_12 (A3), Blue\_11 (A1), Bob3\_10 (A1), Bombshell\_11 (A4), Bones\_11 (A1), Briton15\_13 (A1), Broseidon\_11 (A4), Bruiser\_11 (A4), BubbleTrouble\_11 (A4), Bugatti\_11 (A3), Bumblebee11\_11 (A4), Burger\_10 (A4), Buttons\_12 (A1), Bxb1\_10 (A1), CactusRose\_10 (A1), Caelakin\_11 (A4), Camperdownii\_10 (A4), Carlyle\_13 (A1), CatBus\_12 (A1), Caviar\_12 (A3), CentreCat\_11 (A4), Cerulean\_11 (A4), ChampagnePapi\_11 (A4), Chanagan\_10 (A1), Chaph\_11 (A4), Chiqui\_10 (A3), ChristmasHams\_11 (A1), Chupacabra\_11 (A10), Ciao\_11 (A1), Cici\_11 (A4), Cindaradix\_10 (A4), Cintron\_11 (A4), Citius\_11 (A4), Clammy\_11 (A3), Clarenza\_11 (A4), Cocoaberry\_11 (A4), Commander\_11 (A4), ConceptII\_11 (A1), Connomayer\_11 (A4), Corvo\_11 (A1), Crispicous1\_10 (A1), Cueyllyss\_11 (A1), DD5\_12 (A1), Datway\_11 (A4), Deano\_11 (A4), Dexes\_12 (A1), Dhanush\_11 (A4), DirtDevil\_12

(A1), DirtyDunning\_11 (A4), DontArgue\_10 (A10), Doom\_11 (A1), DrFeelGood\_10 (A1), Drake94\_10 (A10), Dreamboat\_12 (A1), DroogsArmy\_12 (A7), DropBear\_11 (A3), Druantia\_11 (A4), Dulcie\_10 (A1), Dussy\_12 (A1), DustyMartin\_14 (A10), Dynamix\_12 (A1), Eagle\_10 (A4), Eaglepride\_12 (A10), Eapen\_11 (A4), Edison31\_11 (A10), Edtherson\_12 (A1), EnzoK\_12 (A1), Eris\_11 (A4), Eros\_11 (A4), Espresso\_11 (A1), EtoileNova\_12 (A3), Euphoria\_11 (A1), Eurydice\_11 (A4), Eyeball\_11 (A1), Fascinus\_10 (A1), Florean\_11 (A4), Flux\_11 (A4), FlyCatcher\_15 (A7), Forsytheast\_10 (A1), Francis47\_11 (A1), Fred313\_11 (A3), FrogHopper\_12 (A1), Funston\_11 (A4), GMonster\_10 (A1), Gachnar\_11 (A1), Gadost\_11 (A4), Gandalf20\_12 (A1), Giroux\_12 (A3), Gompeii16\_11 (A1), Goose\_11 (A10), Graduation\_13 (A1), GrecoEtereo\_12 (A1), GroundGoblin\_12 (A1), Gwendoluna\_13 (A1), HINdeR\_11 (A7), HamSlice\_10 (A4), Hami1\_13 (A1), HanShotFirst\_11 (A1), Happiness\_11 (A4), HarryOW\_12 (A1), Heathen\_11 (A3), HelDan\_11 (A3), Hermia\_13 (A1), HermioneGrange\_12 (A1), Holli\_11 (A4), Homines\_11 (A1), Hookmount\_12 (A3), Hope4ever\_11 (A1), Houdini22\_11 (A4), Huxley\_11 (A4), ICleared\_11 (A4), ILeekKay\_13 (A1), Iceman\_11 (A4), Ichabod\_12 (A1), Idleandcovert\_11 (A3), IgnatiusPatJac\_10 (A1), Inyanga\_10 (A1), Iqorha\_10 (A1), Iracema64\_11 (A4), Isca\_11 (A3), JC27\_13 (A1), JF2\_11 (A3), JF4\_11 (A3), JackSparrow\_12 (A1), Jasper\_12 (A1), Jaykayelowell\_11 (A4), JetBlade\_11 (A4), JoongJeon\_11 (A4), Jorgensen\_11 (A1), JuliaChild\_13 (A1), KBG\_12 (A1), KFPoly\_11 (A4), KSSJEB\_11 (A1), Kachowdy\_11 (A3), Kampy\_11 (A4), Kanely\_12 (A1), Katalie136\_11 (A4), KekoraPapaka\_10 (A4), KikiBouba\_12 (A1), Killigrew\_9 (A1), Kimona\_8 (A19), Kingmustik0402\_11 (A4), KittenMittens\_10 (A10), Koan\_11 (A4), Koreni\_10 (A4), Kratark\_11 (A4), Kremtemulon\_11 (A4), Kristoff\_12 (A10), Kugel\_12 (A1), KyMonks1A\_13 (A1), Kyee\_11 (A4), Kykar\_9 (A1), LHTSCC\_11 (A4), Lambert1\_12 (A3), Lamina13\_11 (A1), LappelDuVide\_11 (A4), Lemur\_11 (A4), Lesedi\_10 (A1), Licorice\_13 (A1), LilBib\_12 (A1), LittleB\_11 (A4), LittleGuy\_11 (A4), LochMonster\_11 (A4), Lockley\_11 (A1), Lorenzo\_11 (A4), LunarLander\_11 (A1), Lunsford\_12 (A4), MA5\_11 (A3), MK4\_11 (A3), MPlant7149\_10 (A1), Magnar\_11 (A1), Magnito\_10 (A1), Manatee\_12 (A1), Marcell\_11 (A1), Marchesa\_11 (A3), Marchy\_10 (A1), Marco3\_11 (A1), Margo\_12 (A3), Maroc7\_10 (A1), Marsha\_11 (A1), MaryBeth\_11 (A1), Maverick\_11 (A4), Maxo\_11 (A4), Mayonnaise\_11 (A4), Mazhar510\_11 (A4), McGuire\_12 (A1), McSinger\_12 (A1), Medusa\_11 (A4), MeeZee\_11 (A4), Melvin\_11 (A4), MetalQZJ\_11 (A1), Michley\_11 (A1), MilleFeuille\_8 (A1), Miramae\_11 (A4), Molly\_12 (A1), Moose\_10 (A1), Morpher26\_11 (A4), MrGordo\_11 (A1), Mryolo\_10 (A1), Mule\_11 (A1), Mundrea\_11 (A4), NEHalo\_11 (A1), Nebs\_11 (A4), Nerujay\_12 (A1), Nhonho\_11 (A1), Noella\_12 (A3), Noelle\_11 (A4), Norbert\_11 (A3), NorthStar\_11 (A4), Norz\_13 (A1), NotAPhaseMom\_11 (A4), Noxious\_12 (A1), Nyxis\_11 (A4), OKCentral2016\_11 (A10), OKaNui\_11 (A4), Obama12\_11 (A4), Ohfah\_11 (A4), Ohno789\_10 (A1), Oogway\_10 (A1), PP\_21 (A7), PSullivan\_13 (A1), PacerPaul\_11 (A1), Palestino\_11 (A4), Panamaxus\_12 (A3), Papez\_13 (A1), Paphu\_10 (A1), Paraselene\_10 (A1), Pari\_12 (A1), Parliament\_10 (A1), PascalRango\_10 (A1), Payneful\_11 (A1), PeaceMeal\_10 (A10), Peaches\_11 (A4), Pelly\_12 (A1), Pepe\_12 (A1), Perplexer\_11 (A4), Perseus\_12 (A1), PeterPeter\_11 (A4), Peterson\_14 (A1), PetiteSangsue\_11 (A4), Petruchio\_11 (A1), Phacado\_11 (A4), Phantastic\_11 (A3), Phelipe\_11 (A4), PherrisBueller\_12 (A1), Phighter1804\_11 (A4), Phontbonne\_11 (A4), PhrostyMug\_11 (A1), PinkPlastic\_10 (A1), Pinto\_13 (A1), Pipcraft\_11 (A4), Pistachio\_12 (A3), Pita2\_13 (A1), Pocahontas\_12 (A3), Polymorphads\_11 (A4), Poompha\_10 (A10), Popcicle\_12 (A3), PowerRanger\_11 (A1), ProMouse\_10 (A1), Pumbaa\_11 (A4), Puppet\_11 (A1), Puppy\_12 (A3), QTRLifeCrisis\_11 (A1), QuinnKiro\_11 (A3), Raid\_12 (A1), Rajelicia\_11 (A1), Rebeuca\_12 (A10), Relief\_11 (A4), ResDef\_12 (A3), RhynO\_12 (A10), Rhynn\_11 (A1), RidgeCB\_11 (A1), Ringer\_11 (A1), RockieBear\_10 (A4),

Rockstar\_11 (A3), Rohr\_12 (A1), Roimos\_11 (A3), Romney\_11 (A4), Roosevelt\_11 (A4), Rosa24\_10 (A4), Rowdy\_14 (A10), Ruin\_11 (A4), Ruotula\_10 (A1), STLscum\_12 (A1), Sabertooth\_11 (A4), Sagefire\_12 (A1), Sandaddy\_10 (A1), Sanya\_10 (A1), SarFire\_11 (A1), SaturnRing\_11 (A3), Scamp\_11 (A4), Scout\_11 (A3), Scowl\_12 (A1), Seabiscuit\_13 (A1), Seanderson\_12 (A1), SenorClean\_11 (A4), Severus\_10 (A10), Shaka\_11 (A4), Shapes\_14 (A10), Sheen\_13 (A7), SheldonCooper\_11 (A4), ShortQueendom\_10 (A1), Shygu2\_11 (A4), SkiPole\_13 (A1), Slagathor\_12 (A1), Smairt\_12 (A1), Smeagol\_12 (A1), Snazzy\_9 (A1), Solon\_11 (A1), Sorpresa\_11 (A1), Sparxx\_11 (A4), Spino\_11 (A4), Squee\_12 (A1), Stasia\_12 (A4), SteMason\_10 (A4), StewieG\_10 (A1), Stink\_11 (A4), Sultana\_11 (A4), Sumter\_10 (A1), Sunshine924\_10 (A1), SwissCheese\_11 (A1), Switzer\_12 (A1), Swole\_13 (A1), TNguyen7\_11 (A3), Taquarus\_11 (A4), Target\_13 (A1), Tasp14\_12 (A1), Teodoridan\_9 (A1), Texage\_11 (A3), Thanksgivukkah\_11 (A4), TheloniousMonk\_13 (A1), Thor\_11 (A1), Timshel\_12 (A7), TinaFeyge\_11 (A4), Tinybot\_10 (A4), TiroTheta9\_11 (A4), Todacoro\_12 (A3), Topanga\_11 (A10), Topgun\_11 (A1), Toro\_14 (A7), Tote\_13 (A1), Traft412\_13 (A1), Trike\_9 (A10), Tripl3t\_12 (A1), Trouble\_11 (A1), TroyPia\_11 (A4), Turj99\_10 (A1), Twister\_11 (A10), TwoPeat\_12 (A1), TygerBlood\_11 (A4), U2\_11 (A1), Ulysses\_10 (A4), Veracruz\_11 (A3), WalterMcMickey\_11 (A10), Wander\_11 (A4), Watermelon\_13 (A1), Wheeler\_11 (A1), Whitspit\_12 (A1), Wilbur\_11 (A4), Wile\_11 (A4), Wilkins\_11 (A1), Wizard007\_11 (A4), Xena\_11 (A4), YoSam321\_11 (A4), Zarafa\_11 (A3), Zeeculate\_10 (A1), Zephyr\_11 (A1), Zeuska\_12 (A1),

Start 63:

- Found in 294 of 1609 ( 18.3% ) of genes in pham
- Manual Annotations of this start: 231 of 1399
- Called 90.8% of time when present
- Phage (with cluster) where this start called: 20ES\_12 (A2), 40AC\_15 (A17), AN3\_12 (A2), AN9\_15 (A2), ANI8\_15 (A2), AbbyPaige\_14 (A2), Acolyte\_12 (A2), Adzzy\_13 (A2), Agape74\_14 (A2), Aliter\_13 (A9), Alma\_13 (A9), Anaysia\_14 (A15), Aneem\_12 (A11), AnnaL29\_15 (A2), Anon\_12 (A15), Anselm\_12 (A2), ArcherNM\_14 (A2), Arissanae\_11 (A9), Artemis2UCLA\_15 (A6), BABullseye\_15 (A6), BabyBack\_14 (A2), Bachome\_12 (A11), Bactobuster\_13 (A2), Baehexic\_13 (A2), Battleship\_15 (A15), Bellris\_10 (A9), BengiVuitton\_13 (A2), BennyP\_15 (A6), Benvolio\_12 (A2), BiancaTri92\_14 (A2), BlessJoy\_15 (A6), Blinn1\_15 (A6), Blue7\_15 (A6), BobSwaget\_15 (A2), BogosyJay\_13 (A9), Boohoo\_14 (A15), Bowtie\_12 (A11), Bradman\_11 (A2), Bud\_12 (A11), Buggy\_14 (A2), C3\_10 (A2), CRB1\_12 (A2), Candra\_15 (A6), Caraxes\_11 (A2), Centaur\_14 (A2), Changeling\_15 (A2), Chargerpower\_12 (A22), Chartreuse\_15 (A6), Che12\_13 (A2), ChipMunk\_14 (A2), CloudWang3\_15 (A6), CogOmlette\_10 (A9), Colin\_16 (A2), Cookiedough\_15 (A6), Crucio\_12 (A2), D29\_13 (A2), D32\_15 (A2), DBQu4n\_15 (A2), DaVinci\_15 (A6), Dalmatian\_12 (A2), Darrell\_14 (A9), DARTHPhader\_13 (A12), DeerParkTS\_13 (A2), DekHockey33\_14 (A15), Deloris\_13 (A2), DelvinSonDorr\_14 (A6), Dignity\_14 (A2), Dorothea\_15 (A6), Drake55\_14 (A2), DudeLittle\_12 (A2), Duplo\_15 (A2), EZMoney23\_16 (A2), EagleEye\_14 (A16), Ebony\_12 (A11), Echild\_12 (A2), Eidsmoe\_13 (A9), Elephantoon\_13 (A9), Elle\_12 (A15), Epsocamisio\_14 (A15), Equemioh13\_14 (A2), EricB\_15 (A6), Et2Brutus\_11 (A11), EvilGenius\_14 (A2), Fameo\_12 (A2), Fayely\_13 (A9), Fibonacci\_12 (A11), FiringLine\_12 (A2), First\_0012 (A2), Flare16\_12 (A2), Flaverint\_12 (A11), ForesterFrank\_13 (A2), Gail\_11 (A14), Garak\_16 (A6), GaugeLDP\_14 (A2), Georgie2\_13 (A2), Gilberta\_12 (A11), Gladiator\_15 (A6), Gratitude\_13 (A2), GreedyLawyer\_15 (A6), Gruunaga\_15 (A6), Hammer\_15 (A6), HarryHoudini\_14 (A2), Heffalump\_14 (A2), Helmet\_15 (A6), Herbertwm\_10 (A2), Hexamo\_15 (A6), HippoHollow\_13 (A2), Hoot\_15 (A6),

HortumSL17\_13 (A9), Hutc2\_12 (A11), Indra\_15 (A6), Insomnia\_12 (A11), IronMan\_14 (A2), Isiphiwo\_15 (A6), Iwokeuplikedis\_12 (A2), JSwag\_14 (A15), Jaan\_15 (A2), Jabith\_12 (A11), Jeeves\_11 (A14), Jeffabunny\_15 (A6), Jerm\_14 (A2), JewelBug\_15 (A6), Jordennis\_15 (A6), Joselito\_12 (A11), JoshKayV\_14 (A2), Journey13\_10 (A2), Jsquared\_11 (A2), Kalpine\_15 (A2), KatherineG\_14 (A15), Kazan\_15 (A6), Kerberos\_15 (A2), Keziacharles14\_11 (A9), Kimba\_12 (A11), KingCyrus\_14 (A2), Kipper29\_15 (A6), Koduck\_12 (A2), Koko\_15 (A6), L5\_13 (A2), LadyBird\_12 (A2), Landor\_13 (A2), Larenn\_13 (A2), LastResort\_14 (A15), Leogania\_14 (A2), Leviathan\_14 (A2), LilTurb\_14 (A2), Lilbunny\_15 (A6), LionsBait\_13 (A2), Lokk\_15 (A2), Looper\_15 (A15), Loser\_15 (A2), Luchador\_12 (A14), Lucivia\_12 (A11), Lucyedi\_13 (A16), MaCh\_12 (A11), Mabel\_12 (A11), MajorMajor\_11 (A2), Malec\_13 (A2), Maminiaina\_13 (A9), McFly\_15 (A6), MiculUcigas\_12 (A2), Miko\_15 (A2), MinecraftSteve\_15 (A15), Minispark\_10 (A9), MissWhite\_12 (A2), Mulciber\_12 (A11), Munch\_12 (A11), Myxus\_13 (A9), NaSiaTalie\_12 (A2), Naji\_15 (A2), Nebulosus\_14 (A15), Nedarya\_13 (A15), Neeharika16\_15 (A6), Newrala\_15 (A6), NicoleTera\_16 (A2), NothingSpecial\_14 (A2), Odin\_11 (A2), Oofda\_14 (A15), Orange\_12 (A11), PackMan\_13 (A9), PainterBoy\_13 (A16), Petersenfast\_11 (A11), Ph8s\_13 (A2), Phaded\_15 (A2), Pharaoh\_12 (A12), Piro94\_13 (A2), Pmask\_15 (A6), Polyphemus\_15 (A6), Pomar16\_15 (A2), Power\_12 (A2), Priamo\_15 (A6), Priya\_13 (A9), Prudy\_14 (A2), Pukovnik\_14 (A2), QueenB2\_12 (A2), QueenBeesly\_12 (A2), Quokka\_10 (A2), Rachaly\_15 (A2), Rahalelujah\_11 (A9), Ravana\_15 (A15), ReMo\_14 (A15), RedRock\_15 (A2), Refuge\_15 (A12), Remus\_14 (A15), Retro23\_12 (A2), Rifter\_15 (A6), Roksolana\_15 (A6), Rosalind\_14 (A15), Salz\_12 (A11), Saskia\_11 (A11), SemperFi\_14 (A2), Serenity\_11 (A2), Sham4\_12 (A11), ShayRa\_15 (A15), Sknot\_12 (A2), Smeagan\_14 (A2), SmellyB\_15 (A6), SnapTap\_12 (A2), Snape\_12 (A11), SororFago\_11 (A14), Soups\_14 (A15), Spouty\_13 (A9), StarStuff\_15 (A2), Steamy\_13 (A12), Strosahl\_14 (A15), Sunhee\_10 (A14), SuperAwesome\_15 (A6), SuperCallie99\_15 (A6), Superchunk\_11 (A2), SweetiePie\_12 (A2), SwirlSquare\_14 (A2), Switzerland\_14 (A15), TarsusIV\_12 (A2), Temprado\_15 (A6), Terrific\_16 (A2), Timothy\_12 (A11), TinyTimmy\_12 (A11), TipsytheTRex\_11 (A2), Toaka\_11 (A9), Tomathan\_15 (A2), ToneTone\_14 (A6), Travvers\_15 (A2), Tristan\_13 (A2), Trixie\_15 (A2), Trooper\_12 (A2), Tubs\_13 (A9), Tucker\_15 (A6), Turbido\_14 (A2), Ugenie5\_10 (A9), Updawg\_14 (A2), VA6\_12 (A2), VC3\_15 (A2), Vanisoa\_11 (A9), VohminGhazi\_15 (A6), Waits\_14 (A15), Warrior24\_14 (A15), WeiHuaDA\_18 (A2), Whabigail7\_14 (A2), WideWale\_14 (A2), Wiks\_15 (A6), Wolpertinger\_11 (A11), WorldCup\_10 (A9), WunderPhul\_15 (A6), XianYue\_12 (A2), Yokurt\_15 (A6), Zaka\_15 (A6), Zimmer\_14 (A12), Zulu\_15 (A6),

#### Start 64:

- Found in 18 of 1609 ( 1.1% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 5.6% of time when present
- Phage (with cluster) where this start called: Saftant\_6 (BD3),

#### Start 65:

- Found in 92 of 1609 ( 5.7% ) of genes in pham
- Manual Annotations of this start: 85 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ACFishhook\_13 (A3), Aglet\_13 (A3), AgronaGT15\_13 (A3), Anubis\_15 (A3), AugsMagnumOpus\_15 (A3), Beauxregard13\_13 (A3), Bigflo\_13 (A3), BreSam8\_13 (A3), BuzzBuzz\_12 (A3), Bx2\_13 (A3), Calvinny\_14 (A3), ClownCar\_14 (A3), Colbster\_13 (A3), Croquant\_14

(A3), Cullens\_13 (A3), DaHudson\_13 (A3), Daishi\_12 (A3), Dieselweasel\_13 (A3), EpicPhail\_13 (A3), Farber\_13 (A3), Fernando\_13 (A3), Gemma\_13 (A3), GingkoMaracino\_13 (A3), Grif\_13 (A3), Groupthink\_14 (A3), Grub\_13 (A3), Grum1\_13 (A3), GtownJaz\_13 (A3), Gwennie\_12 (A3), HashRod\_14 (A3), HaveUMetTed\_14 (A3), Heliosoles\_13 (A3), Hercules11\_13 (A3), JHC117\_13 (A3), JenCasNa\_13 (A3), JeppNRM\_14 (A3), Jobu08\_13 (A3), KADY\_14 (A3), Kalb97\_14 (A3), Kalnoky\_14 (A3), LBerry\_13 (A3), LarryKay\_13 (A3), Lilith\_13 (A3), Louie6\_13 (A3), Lowa\_13 (A3), LugYA\_15 (A3), MadMarie\_13 (A3), Mainiac\_13 (A3), Malinsilva\_15 (A3), Manu\_14 (A3), MarQuardt\_13 (A3), Marie\_13 (A3), Marius\_14 (A3), Methuselah\_13 (A3), Microwolf\_13 (A3), Millski\_11 (A4), Misomonster\_15 (A3), MoneyMay\_13 (A3), Montavir\_12 (A3), Morrow\_11 (A4), MuchMore\_15 (A3), OlanP\_13 (A3), Ollie\_13 (A3), P28Green\_13 (A3), PGHhamlin\_15 (A3), Pawn\_13 (A3), Pembroke\_13 (A3), Penny1\_13 (A3), PhishRPhriends\_12 (A3), Phoebe\_13 (A3), Phoxy\_13 (A3), Phranny\_14 (A3), PotatoSplit\_14 (A3), PurpleHaze\_13 (A3), Reba\_14 (A3), Rummer\_13 (A3), Sabia\_13 (A3), Sabinator\_13 (A3), Snickers\_13 (A3), SoYo\_13 (A3), SoilDragon\_13 (A3), Soshari\_15 (A3), Spike509\_13 (A3), Stagni\_13 (A3), StepMih\_13 (A3), Taurus\_13 (A3), Tiffany\_13 (A3), TinyPebbles\_13 (A3), Vix\_13 (A3), Watson\_13 (A3), Wooldri\_15 (A3), Zetzy\_12 (A3),

#### Start 66:

- Found in 46 of 1609 ( 2.9% ) of genes in pham
- Manual Annotations of this start: 35 of 1399
- Called 78.3% of time when present
- Phage (with cluster) where this start called: Alatin\_8 (CA), Alpacados\_7 (CA), AngryOrchard\_7 (CA), AppleCloud\_6 (CA), Belenaria\_8 (CA), Bonanza\_8 (CA), Bradshaw\_8 (CA), Bryce\_8 (CA), CosmicSans\_8 (CA), Dinger\_8 (CA), Erik\_8 (CA), Espica\_8 (CA), Gollum\_8 (CA), Harlequin\_8 (CA), Hiro\_8 (CA), Jester\_8 (CA), Krishelle\_8 (CA), Lillie\_8 (CA), Naiad\_8 (CA), Nancinator\_8 (CA), Natosaleda\_8 (CA), Partridge\_8 (CA), PhailMary\_7 (CA), Phrankenstien\_8 (CA), RER2\_1 (CA), Rasputin\_8 (CA), RexFury\_8 (CA), Rhodalysa\_8 (CA), Shuman\_8 (CA), StCroix\_8 (CA), Swann\_8 (CA), TWAMP\_8 (CA), Takoda\_8 (CA), UhSalsa\_8 (CA), Yogi\_8 (CA), Yoncess\_8 (CA),

#### Start 67:

- Found in 3 of 1609 ( 0.2% ) of genes in pham
- Manual Annotations of this start: 2 of 1399
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Farewell\_2 (AF), Sparky\_2 (AF),

#### Start 68:

- Found in 2 of 1609 ( 0.1% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anthony\_11 (A20), FatCactus\_10 (A20),

#### Start 69:

- Found in 1 of 1609 ( 0.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kinmap\_11 (A21),

#### Start 70:

- Found in 50 of 1609 ( 3.1% ) of genes in pham

- Manual Annotations of this start: 45 of 1399
- Called 94.0% of time when present
- Phage (with cluster) where this start called: Acme\_13 (A1), Angelique\_2 (CY1), BeeGee\_2 (CY5), BigMau\_13 (A1), Bradissa\_2 (CY1), BritBrat\_2 (CY2), Bruns\_10 (A1), Burton\_12 (A1), Cashline\_2 (CY6), Confidence\_2 (CY1), DreamCatcher\_14 (A1), EMsquaredA\_2 (CY1), EnalisNailo\_2 (CY1), Fajezeel\_13 (A1), Floral\_2 (CY1), Fushigi\_12 (A1), GageAP\_13 (A1), Greg\_13 (A1), Gyzlar\_13 (A1), Jablanski\_2 (CY3), Jerm2\_12 (A1), Kenmech\_14 (A1), Lilas\_2 (CY1), LonelyBoi\_2 (CY7), LunaStella\_2 (F4), Marge\_12 (A1), Marteenaa\_2 (CY1), Monet\_13 (A1), Museum\_13 (A1), Niza\_13 (A1), PattyP\_13 (A1), Pippin\_13 (A1), Pollux\_2 (CY1), Posh\_2 (CY4), Pytheas\_2 (CY3), Renaud18\_2 (F4), Rubeus\_12 (A1), Rufus\_12 (A1), Rutherford\_13 (A1), Sibs6\_13 (A1), SpikeBT\_13 (A1), Stellammi\_2 (UNK), TChen\_2 (F4), ThetaBob\_2 (F4), Toron\_2 (F6), Treddle\_13 (A1), Wrigley\_2 (CY4),

#### Start 71:

- Found in 1 of 1609 ( 0.1% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MyraDee\_9 (A18),

#### Start 75:

- Found in 121 of 1609 ( 7.5% ) of genes in pham
- Manual Annotations of this start: 21 of 1399
- Called 23.1% of time when present
- Phage (with cluster) where this start called: Ayanochan\_14 (A9), BeardedLady\_7 (BD1), Catalina\_13 (A9), Celestiallunch\_12 (A9), Charm\_12 (A9), Conquerage\_13 (A9), DreamTeam1\_12 (A9), EdogawaKiddo\_11 (A9), EnochSoames\_7 (BD1), Esperer\_6 (BD1), ExplosioNervosa\_13 (A9), Jash\_7 (BD1), Klodlith\_12 (A9), Leviticus\_6 (BD1), LoneWolf\_13 (A9), Lorelei\_6 (BD1), MalagasyRose\_7 (AG), Onglai\_12 (A9), Ozzie\_6 (BD1), Phaeder\_13 (A9), Pioneer\_13 (A9), Rusticus\_7 (BD1), Sachima\_11 (A9), SheaKeira\_12 (A9), SunsetPointe\_6 (BD1), Toma\_6 (BD1), Unstoppable\_6 (BD1), Yecey3\_12 (A9),

#### Start 77:

- Found in 2 of 1609 ( 0.1% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Nergal\_5 (AG),

#### Start 80:

- Found in 73 of 1609 ( 4.5% ) of genes in pham
- Manual Annotations of this start: 5 of 1399
- Called 12.3% of time when present
- Phage (with cluster) where this start called: Beemo\_13 (A9), EmyBug\_13 (A9), Hanray\_12 (A9), Horex\_12 (A9), Lilleskat\_11 (A9), Phonnegut\_13 (A9), Qobbit\_13 (A9), RyeScarlet\_14 (A9), Scherzo\_13 (A9),

#### Start 81:

- Found in 201 of 1609 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 1.0% of time when present
- Phage (with cluster) where this start called: Nemo27\_11 (A4), Tailonex\_9 (singleton),

Start 83:

- Found in 21 of 1609 ( 1.3% ) of genes in pham
- Manual Annotations of this start: 13 of 1399
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Apricot\_2 (DN3), Barnstormer\_2 (EH), Caron\_2 (EH), Cen1621\_2 (EH), Floof\_2 (EH), Forester\_4 (EH), GardenState\_2 (EH), Gretchen\_2 (EH), IAmGroot\_2 (EH), Mabodamaca\_2 (EH), Percival\_2 (EH), SuMoo\_2 (EH), SuperHands\_2 (EH), UtzChips\_2 (EH), Zeta1847\_2 (EH),

Start 84:

- Found in 55 of 1609 ( 3.4% ) of genes in pham
- Manual Annotations of this start: 42 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AEgle\_2 (AZ1), AGrandiflora\_2 (AZ1), Adumb2043\_2 (AZ1), AinMach\_2 (AZ7), Amploria\_2 (AZ1), Amyev\_2 (AZ1), Asa16\_2 (AZ1), Ascela\_2 (AZ1), Berrie\_2 (AZ1), Cassia\_2 (AZ1), Community\_3 (AZ1), Crewmate\_3 (AZ1), Cyan\_2 (AZ1), DrSierra\_2 (AZ1), Elezi\_2 (AZ1), Eraser\_2 (AZ1), Exile\_2 (AZ6), Flutur\_2 (AZ), Iter\_2 (AZ1), IttyBittyPiggy\_2 (AZ1), Janeemi\_3 (AZ1), Joemato\_2 (AZ1), JohnDoe\_2 (AZ1), Jstan\_2 (AZ1), JuneStar\_2 (AZ1), Kaylissa\_2 (AZ1), Lego\_2 (AZ1), Lizalica\_2 (AZ1), London\_2 (AZ1), Mudpuppy\_2 (AZ1), Niobe\_2 (AZ1), Nitro\_2 (AZ1), ObiToo\_2 (AZ1), Phives\_3 (AZ1), Pixelle\_2 (AZ1), Powerpuff\_2 (AZ1), Pumpkins\_2 (AZ1), Schaffner\_2 (AZ1), Simpson\_2 (AZ1), Skelbel\_2 (AZ1), Snek\_3 (AZ3), Soondubu\_2 (AZ6), Subaru\_2 (AZ1), Tallboi\_2 (AZ1), Tbone\_2 (AZ1), TforTroy\_2 (AZ1), Tian\_2 (AZ1), Tuck\_3 (AZ1), Turab\_2 (AZ1), Tutumahutu\_2 (AZ1), Tweety19\_3 (AZ3), Warda\_2 (AZ1), Wildwest\_3 (AZ1), Yang\_2 (AZ1), YesChef\_2 (AZ1),

Start 87:

- Found in 7 of 1609 ( 0.4% ) of genes in pham
- Manual Annotations of this start: 7 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adolin\_2 (AZ1), DrManhattan\_2 (AZ1), KeAlii\_2 (AZ1), MissSwiss\_2 (AZ1), Reedo\_2 (AZ1), Sue2\_2 (AZ1), VResidence\_2 (AZ1),

Start 89:

- Found in 1 of 1609 ( 0.1% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Honk\_2 (EH),

Start 90:

- Found in 19 of 1609 ( 1.2% ) of genes in pham
- Manual Annotations of this start: 17 of 1399
- Called 89.5% of time when present
- Phage (with cluster) where this start called: Ashes\_2 (AZ5), Beaupre\_2 (AZ5), Cappuccino\_2 (AZ5), Donkey\_2 (AZ5), Gambol\_2 (AZ5), Giorgio\_2 (AZ5), Gumpizza\_2 (AZ5), Halsey\_2 (AZ5), Ibantik\_67 (singleton), Kalimba\_2 (AZ5), Moss\_2 (AZ5), Mysterium\_2 (AZ5), RockScotty\_2 (AZ5), Sabourin\_2 (AZ5), Sooty\_2 (AZ5), SpecialK\_2 (AZ5), Stuu\_2 (AZ5),

Start 91:

- Found in 9 of 1609 ( 0.6% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Modragons\_2 (F1),

Start 92:

- Found in 2 of 1609 ( 0.1% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attoomi\_3 (singleton), GMA4\_2 (singleton),

Start 95:

- Found in 5 of 1609 ( 0.3% ) of genes in pham
- Manual Annotations of this start: 3 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fury\_33 (CR5), HomeFry\_30 (CR5), Hum25\_2 (FQ), Pleakley\_33 (CR5), Scuba\_33 (CR5),

Start 96:

- Found in 13 of 1609 ( 0.8% ) of genes in pham
- Manual Annotations of this start: 12 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arti\_24 (CR2), Emianna\_24 (CR2), Foxboro\_25 (CR2), GTE8\_13 (CR2), GrootJr\_26 (CR2), Jifall16\_23 (CR2), KidneyBean\_24 (CR2), Kurt\_24 (CR2), NatB6\_24 (CR2), NovumRegina\_24 (CR2), Phomeo\_23 (CR2), Tracker\_24 (CR2), Wheezy\_24 (CR2),

Start 97:

- Found in 25 of 1609 ( 1.6% ) of genes in pham
- No Manual Annotations of this start.
- Called 4.0% of time when present
- Phage (with cluster) where this start called: Phlei\_8 (A13),

Start 98:

- Found in 1 of 1609 ( 0.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TPA4\_2 (singleton),

Start 99:

- Found in 244 of 1609 ( 15.2% ) of genes in pham
- Manual Annotations of this start: 202 of 1399
- Called 89.8% of time when present
- Phage (with cluster) where this start called: Akhila\_3 (F1), Apiary\_28 (CR6), ArcusAngelus\_2 (F1), Ardmore\_2 (F1), Aubs\_2 (F1), Batiatus\_2 (F1), BiPauneto\_27 (CR4), Bipolar\_2 (F1), Blexus\_2 (F1), BlueCrab\_2 (F1), BodEinwohner17\_2 (F1), Bonum\_27 (CR2), Braxoaddie\_28 (CR6), Brocalys\_2 (F1), Bubbles123\_2 (F1), Buggaboo\_25 (CR2), Burwell21\_2 (F1), Button\_5 (CT), ByChance\_2 (F1), Cabrinians\_2 (F1), CaptainTrips\_3 (F1), Che8\_2 (F1), Cheesepuff\_2 (F1), Chevrolet\_2 (F1), Chuckly\_2 (F1), Clank\_2 (F), Clifton\_2 (F1), CoffeeBean\_28 (CR6), Commandaria\_26 (CR2), Corium\_2 (F1), Crumble\_2 (F1), DLane\_2 (F1), DRBy19\_2 (F1), Daenerys\_2 (F1), Dalilpop\_29 (CR1), Dante\_2 (F1), DeadP\_2 (F1), Deb65\_2

(F1), DillTech15\_2 (F1), DoRead\_2 (F1), Donkeykong\_2 (F1), Doomphist\_2 (F1), Dorothy\_2 (F1), DotProduct\_2 (F1), Doug\_2 (F1), Eish\_2 (F1), EleanorGeorge\_2 (F1), EmiMonkey\_2 (F1), Emma\_2 (F1), Empress\_2 (F1), Ennea\_30 (CR3), Eradicator\_2 (F1), Estave1\_2 (F1), Fastidio\_2 (F1), Filuzino\_2 (F1), Firehouse51\_2 (F1), Flapper\_28 (CR1), Float294\_26 (CR3), Florinda\_2 (F1), FreddyB\_2 (F1), Fruitloop\_2 (F1), GAL1\_4 (singleton), GRU1\_terL (CR1), GTE5\_terL (CR1), GUmble\_2 (F1), Galactic\_2 (F1), Gandolph\_2 (F1), Geralt\_2 (F1), GiKK\_7 (CT), GigiOuiOui\_2 (F1), Girr\_2 (F1), Gorge\_2 (F1), Grimmer\_3 (F1), Guppsters\_2 (F1), GuyFagieri\_28 (CR6), Hades\_2 (F1), Hamulus\_2 (F1), Harley\_2 (F1), Hexbug\_5 (CT), Hlubikazi\_2 (F1), HubbaBubba\_22 (CR4), IDyn\_25 (CR4), IMpilo\_2 (F1), Ibhubesi\_2 (F1), Inventum\_2 (F1), IrishSherpFalk\_2 (F1), James\_2 (F1), Jamzy\_7 (CT), Jant\_2 (F1), Jacob\_2 (F1), Jinglebell\_2 (F1), JoeyJr\_2 (F1), Juniper1\_2 (F1), Karhdo\_2 (F1), Kenuha5\_2 (F1), Kersh\_2 (F1), KingJulian\_2 (F1), KingMidas\_2 (F1), Koella\_2 (F1), Krakatau\_3 (F1), KristaRAM\_3 (F1), LastJedi\_2 (F1), Latretium\_2 (F1), Leperchaun\_2 (F1), LilMoolah\_2 (F1), Lizziana\_2 (F1), Llama\_2 (F1), Llij\_2 (F1), Lollipop1437\_29 (CR3), LunaBlu\_2 (F1), MacGully\_32 (CR7), MadMen\_2 (F1), Mahavrat\_2 (F1), Mandlovu\_2 (F1), Mantra\_2 (F1), Maravista\_2 (F1), Margaret\_7 (CT), Marietta\_26 (CR4), Martik\_2 (F1), Maselop\_28 (CR6), Mattes\_2 (F1), Medindi\_2 (F1), Melissauren88\_2 (F1), MerCougar\_25 (CR2), MilanaBonita\_3 (F1), MilleniumForce\_3 (F1), MinionDave\_3 (F1), Minnie\_2 (F1), MisterCuddles\_2 (F1), Moonbeam\_2 (F1), Ms6\_2 (F1), MulchSalad\_2 (F7), Mutaforma13\_2 (F1), NadineRae\_24 (CR4), NewHope4\_2 (F1), Nimbo\_2 (F1), Nitzel\_3 (F1), Nivrat\_2 (F1), Nodigi\_5 (CT), NormanBulbieJr\_2 (F1), Ochi17\_2 (F1), OldBen\_2 (F1), OlympiaSaint\_2 (F1), Orla\_5 (CT), Outis\_25 (CR2), Ovechkin\_2 (F1), PHappiness\_2 (F1), PMC\_2 (F1), Pacc40\_2 (F1), Patio\_27 (CR3), PatoPoderoso\_2 (F1), Pemberton\_27 (CR4), Phalconet\_2 (F1), Phanphagia\_2 (F1), Phasih\_2 (F1), Phatniss\_2 (F1), PhesterPhotato\_2 (F1), Philus\_2 (F1), PhlipPhlop\_2 (F1), Pippy\_2 (F1), Poenanya\_2 (F1), Polka14\_2 (F1), Polyyuki\_28 (CR6), PopTart\_2 (F1), Priscilla\_2 (F1), QuickMath\_2 (F1), Radiance\_2 (F1), RanchParmCat\_7 (CT), RedBird\_2 (F1), RedRaider\_31 (CR3), RitaG\_2 (F1), Rita\_2 (F1), Rockne\_2 (F1), Royals2015\_2 (F1), Ruby\_2 (F1), SG4\_2 (F1), SPB78\_2 (BA), Saal\_2 (F1), Sabb\_2 (F1), Sandalphon\_2 (F1), Sassafras\_2 (F1), SassyB\_2 (F1), Scottish\_2 (F1), Shauna1\_2 (F1), ShiLan\_2 (F1), ShowerHandel\_2 (F1), ShroomBoi\_2 (F1), SiSi\_2 (F1), Skysand\_26 (CR3), Sparkdehlily\_2 (F1), Spartacus\_2 (F1), Spoonbill\_2 (F1), StAnnes\_2 (F1), StarStruck\_25 (CR2), Strokeseat\_2 (F1), Sukkupi\_26 (CR4), SuperGrey\_2 (F1), SuperSulley\_25 (CR2), SwagPigglett\_2 (F1), TDanisky\_2 (F1), Taj\_2 (F1), Topiatin\_4 (F1), Turuncu\_28 (CR1), Tweety\_2 (F1), VRedHorse\_2 (F1), Veteran\_2 (F1), Violac\_2 (F1), Wachhund\_2 (F1), Wee\_2 (F1), Whatsapiecost\_2 (F1), WhoseManz\_26 (CR4), Whouxphf\_2 (F1), WillSterrel\_2 (F1), XFactor\_2 (F1), Yakult\_5 (CT), Yndexa\_26 (CR4), Yorick\_2 (F1), Zerg\_2 (F1), Zizzle\_2 (F1),

Start 101:

- Found in 122 of 1609 ( 7.6% ) of genes in pham
- Manual Annotations of this start: 80 of 1399
- Called 86.1% of time when present
- Phage (with cluster) where this start called: 8UZL\_5 (AB), Agatha\_4 (CT), AikoCarson\_3 (CT), Amok\_3 (CT), AndPeggy\_3 (CT), Anekin\_2 (AY), Axym\_4 (CT), Azira\_6 (CT), Balloona\_3 (CT), Bavailard\_4 (CT), BearBQ\_2 (DN), Beelzebub\_39 (S), BigChungus\_3 (CT), BillDoor\_6 (CT), Birdsong\_2 (DN), Biskit\_5 (CT), Blackbeetle\_35 (S), Blondies\_5 (CT), Bubble\_4 (CT), Burnsey\_4 (CT), Buttrmilkdreams\_4 (CT), CanesSauce\_4 (CT), Caprice\_32 (S), CaramelLatte\_4 (CT), Carsonalex\_5 (CT), CherryonLim\_5 (CT), ChickenTender\_6 (CT), ChocoMunchkin\_4 (CT), Clarkson\_36 (S), Cleo\_4 (CT), CocoaPuff\_3 (CT), Corazon\_33 (S), Cornie\_2 (F5), Cozz\_4 (CT),

Crater\_2 (DN3), Dre3\_4 (CT), Elinal\_5 (CT), Elliott\_4 (CT), Emalyn\_3 (CT), FF47\_05 (AB), Feastonyeet\_3 (CT), FeliMaine\_37 (S), Fribs8\_5 (CT), GTE2\_02 (CT), Gattaca\_34 (S), Gibbous\_4 (CT), GoldHunter\_5 (CT), GoongGoong\_34 (S), HippoPololi\_6 (CT), Horseradish\_5 (CT), Huphlepufl\_37 (S), JacoRen57\_2 (AB), JoieB\_36 (S), KayGee\_4 (CT), Kuwabara\_2 (DN4), Lauer\_3 (CT), Lilbit\_34 (S), LittleLaf\_35 (S), LongHai\_6 (AB), MAnor\_4 (CT), MScarn\_6 (CT), MUWow\_2 (AY), MaVan\_6 (CT), Maco6\_3 (AB), Marvin\_33 (S), Mayweather\_5 (CT), McDazzle\_3 (CT), MortyNRick\_2 (DN), MosMoris\_33 (S), Muddy\_5 (AB), MunkgeeRoachy\_4 (CT), Nibbles\_6 (CT), Nina\_4 (CT), NoShow\_2 (AB), Phrank15\_2 (AY), Poise\_35 (S), Pons\_4 (CT), PotPie\_4 (CT), Pringar\_35 (S), PsychoKiller\_4 (CT), Quasar\_4 (CT), RADical\_5 (CT), RSchmailzl\_5 (CT), Raela\_35 (S), RedBaron\_5 (CT), RedRaider77\_35 (S), Salvus\_6 (AB), SketchMex\_3 (CT), Socotra\_5 (CT), Sopespian\_4 (CT), Starburst\_5 (CT), SteamedHams\_6 (CT), SummitAcademy\_3 (CT), Survivors\_6 (CT), SweatNTears\_6 (CT), Tesla\_34 (S), Tolls\_6 (CT), Troje\_4 (CT), Typhonmarchy\_4 (CT), VasuNzinga\_35 (S), Vine\_5 (CT), Yarn\_3 (CT), Yucky\_4 (CT), Yummy\_5 (CT), Zareef\_6 (CT),

#### Start 102:

- Found in 41 of 1609 ( 2.5% ) of genes in pham
- Manual Annotations of this start: 27 of 1399
- Called 70.7% of time when present
- Phage (with cluster) where this start called: Abscondus\_29 (CQ1), Aphelion\_30 (CQ1), Bachita\_32 (CQ1), Bantam\_12 (DL), BrutonGaster\_18 (CQ2), Cardigan\_30 (DD), ClubL\_30 (CQ1), Cucurbita\_32 (CQ1), Culver\_30 (CQ1), Daredevil\_12 (DL), DatBoi\_13 (DL), Dusty\_29 (CQ1), Engineer\_31 (CQ1), Geeche\_29 (CQ1), Kabluna\_27 (CR2), Lozinak\_30 (CQ1), Miskis\_28 (CQ1), Mollymur\_13 (DL), Norvs\_31 (CQ1), NosilaM\_27 (CR2), OneUp\_24 (CQ2), PhinkBoden\_30 (CQ1), Sammy\_5 (singleton), Smoothie\_31 (CQ1), SpeedDemon\_130 (DL), Toniann\_30 (CQ1), Towmatter\_11 (DL), WilliamBoone\_30 (CQ1), Yvonnestic\_28 (DD),

#### Start 105:

- Found in 108 of 1609 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 2 of 1399
- Called 1.9% of time when present
- Phage (with cluster) where this start called: Spooks\_49 (BT), Success\_50 (BT),

#### Start 106:

- Found in 1 of 1609 ( 0.1% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kromp\_2 (singleton),

#### Start 112:

- Found in 1 of 1609 ( 0.1% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Juicebox\_3 (singleton),

#### Start 115:

- Found in 189 of 1609 ( 11.7% ) of genes in pham
- Manual Annotations of this start: 3 of 1399
- Called 1.6% of time when present

- Phage (with cluster) where this start called: AlpineSix\_2 (F1), OfUltron\_2 (F1), Sebastian\_2 (F1),

#### Start 119:

- Found in 2 of 1609 ( 0.1% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dubu\_2 (BJ), phiSASD1\_22 (BJ),

#### Start 120:

- Found in 39 of 1609 ( 2.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 2.6% of time when present
- Phage (with cluster) where this start called: Wolfwood\_7 (CT),

#### Start 121:

- Found in 5 of 1609 ( 0.3% ) of genes in pham
- Manual Annotations of this start: 5 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arianna\_3 (EO), ChewyVIII\_38 (singleton), Colleen\_3 (EO), Poushou\_3 (EO), TouchMeNot\_3 (EO),

#### Start 127:

- Found in 38 of 1609 ( 2.4% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 2.6% of time when present
- Phage (with cluster) where this start called: Darwin\_15 (EN),

#### Start 134:

- Found in 158 of 1609 ( 9.8% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 2.5% of time when present
- Phage (with cluster) where this start called: Byougenkin\_2 (F1), Jennelsea\_2 (F1), Mwanjiwa\_2 (F1), Vivum\_2 (F1),

#### Start 137:

- Found in 135 of 1609 ( 8.4% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 1.5% of time when present
- Phage (with cluster) where this start called: ElJefes\_3 (CT), SheckWes\_3 (CT),

#### Start 139:

- Found in 1 of 1609 ( 0.1% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kimchi1738\_12 (EN),

#### Start 143:

- Found in 186 of 1609 ( 11.6% ) of genes in pham
- No Manual Annotations of this start.
- Called 1.6% of time when present
- Phage (with cluster) where this start called: Jiawan\_12 (A9), MegTheThird\_11 (A9), VWB\_2 (BA),

Start 144:

- Found in 188 of 1609 ( 11.7% ) of genes in pham
- Manual Annotations of this start: 2 of 1399
- Called 3.2% of time when present
- Phage (with cluster) where this start called: BobaPhett\_2 (F1), DaddyRickover\_2 (F1), Enzomatic\_2 (F1), Fancypants\_2 (F1), IbOuu\_2 (F1), Polo2Bam\_2 (F1),

Start 148:

- Found in 194 of 1609 ( 12.1% ) of genes in pham
- Manual Annotations of this start: 2 of 1399
- Called 1.0% of time when present
- Phage (with cluster) where this start called: LeoAvram\_11 (A4), Skipitt\_11 (A4),

Start 150:

- Found in 31 of 1609 ( 1.9% ) of genes in pham
- Manual Annotations of this start: 2 of 1399
- Called 12.9% of time when present
- Phage (with cluster) where this start called: CosmicBrownie\_2 (AY), Hestia\_2 (AY), Nyilah\_2 (AY), Persistence\_2 (AY),

Start 179:

- Found in 163 of 1609 ( 10.1% ) of genes in pham
- Manual Annotations of this start: 2 of 1399
- Called 1.2% of time when present
- Phage (with cluster) where this start called: Ashballer\_10 (A1), BobbyDazzler\_8 (CA),

Start 198:

- Found in 1 of 1609 ( 0.1% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bimmel\_48 (BT),

Start 205:

- Found in 8 of 1609 ( 0.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Mapleville\_3 (AY),

Start 213:

- Found in 519 of 1609 ( 32.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 0.2% of time when present
- Phage (with cluster) where this start called: Mkhuseleli\_12 (A1),

Start 218:

- Found in 92 of 1609 ( 5.7% ) of genes in pham
- Manual Annotations of this start: 2 of 1399
- Called 2.2% of time when present
- Phage (with cluster) where this start called: BroPlease\_7 (BD4), Triumph\_8 (BD2),

Start 225:

- Found in 410 of 1609 ( 25.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 0.2% of time when present
- Phage (with cluster) where this start called: RGL3\_1 (CA),

Start 243:

- Found in 86 of 1609 ( 5.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 1.2% of time when present
- Phage (with cluster) where this start called: RunningOnE\_64 (UNK),

Start 313:

- Found in 1078 of 1609 ( 67.0% ) of genes in pham
- Manual Annotations of this start: 1 of 1399
- Called 0.1% of time when present
- Phage (with cluster) where this start called: GreenWeasel\_8 (BD4),

### **Summary by clusters:**

There are 79 clusters represented in this pham: A12, FQ, singleton, BA, DL, DD, CY1, BJ, A21, BT, AY, BD1, AF, CR7, AB, EH, A15, A14, A17, AZ, A11, A10, A13, BD4, F, A19, A18, A1, DN4, A3, A2, A5, A4, BD3, A6, A9, A8, CQ1, CY3, CY2, EO, EN, CY7, A7, AG, CR3, CA, BD2, DN3, S, A16, CY5, T, CQ2, CR4, CR6, UNK, DN, CT, CR2, F1, A22, CR1, F4, F5, F6, CR5, F7, A20, CY6, BD6, CY4, AZ1, AZ2, AZ3, AZ4, AZ5, AZ6, AZ7,

Info for manual annotations of cluster A1:

- Start number 62 was manually annotated 179 times for cluster A1.
- Start number 70 was manually annotated 24 times for cluster A1.
- Start number 179 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A10:

- Start number 62 was manually annotated 17 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 63 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 63 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 63 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A15:

- Start number 63 was manually annotated 23 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 63 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 71 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 62 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 63 was manually annotated 104 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 68 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A22:

- Start number 63 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:

- Start number 62 was manually annotated 33 times for cluster A3.
- Start number 65 was manually annotated 83 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 62 was manually annotated 136 times for cluster A4.
- Start number 65 was manually annotated 2 times for cluster A4.
- Start number 81 was manually annotated 1 time for cluster A4.
- Start number 148 was manually annotated 2 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 37 was manually annotated 19 times for cluster A5.
- Start number 42 was manually annotated 19 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 63 was manually annotated 47 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 62 was manually annotated 5 times for cluster A7.

Info for manual annotations of cluster A8:

- Start number 42 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 63 was manually annotated 20 times for cluster A9.
- Start number 75 was manually annotated 10 times for cluster A9.
- Start number 80 was manually annotated 5 times for cluster A9.

Info for manual annotations of cluster AB:

- Start number 101 was manually annotated 4 times for cluster AB.

Info for manual annotations of cluster AF:

- Start number 67 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AG:

- Start number 75 was manually annotated 1 time for cluster AG.
- Start number 77 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AY:

- Start number 101 was manually annotated 3 times for cluster AY.
- Start number 150 was manually annotated 2 times for cluster AY.

Info for manual annotations of cluster AZ1:

- Start number 84 was manually annotated 39 times for cluster AZ1.
- Start number 87 was manually annotated 7 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 58 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 84 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 59 was manually annotated 4 times for cluster AZ4.
- Start number 61 was manually annotated 1 time for cluster AZ4.

Info for manual annotations of cluster AZ5:

- Start number 90 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster AZ6:

- Start number 84 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster BD1:

- Start number 59 was manually annotated 45 times for cluster BD1.
- Start number 75 was manually annotated 10 times for cluster BD1.

Info for manual annotations of cluster BD2:

- Start number 59 was manually annotated 32 times for cluster BD2.
- Start number 218 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster BD3:

- Start number 57 was manually annotated 1 time for cluster BD3.
- Start number 61 was manually annotated 10 times for cluster BD3.
- Start number 64 was manually annotated 1 time for cluster BD3.

Info for manual annotations of cluster BD4:

- Start number 218 was manually annotated 1 time for cluster BD4.
- Start number 313 was manually annotated 1 time for cluster BD4.

Info for manual annotations of cluster BD6:

- Start number 59 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster BJ:

- Start number 119 was manually annotated 1 time for cluster BJ.

Info for manual annotations of cluster BT:

- Start number 105 was manually annotated 2 times for cluster BT.
- Start number 198 was manually annotated 1 time for cluster BT.

Info for manual annotations of cluster CA:

- Start number 66 was manually annotated 35 times for cluster CA.
- Start number 179 was manually annotated 1 time for cluster CA.

Info for manual annotations of cluster CQ1:

- Start number 102 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 102 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CR1:

- Start number 99 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 96 was manually annotated 12 times for cluster CR2.
- Start number 99 was manually annotated 7 times for cluster CR2.
- Start number 102 was manually annotated 2 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 99 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 99 was manually annotated 8 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 95 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CR6:

- Start number 99 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster CR7:

- Start number 99 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster CT:

- Start number 99 was manually annotated 9 times for cluster CT.
- Start number 101 was manually annotated 49 times for cluster CT.
- Start number 137 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster CY1:

- Start number 70 was manually annotated 9 times for cluster CY1.

Info for manual annotations of cluster CY2:

- Start number 70 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:

- Start number 70 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:

- Start number 70 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY5:

- Start number 70 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:

- Start number 70 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:

- Start number 70 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster DD:

- Start number 102 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster DL:

- Start number 102 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster DN:

- Start number 101 was manually annotated 3 times for cluster DN.

Info for manual annotations of cluster DN3:

- Start number 83 was manually annotated 1 time for cluster DN3.
- Start number 101 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 101 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster EH:

- Start number 83 was manually annotated 12 times for cluster EH.
- Start number 89 was manually annotated 1 time for cluster EH.

Info for manual annotations of cluster EN:

- Start number 4 was manually annotated 5 times for cluster EN.
- Start number 12 was manually annotated 1 time for cluster EN.
- Start number 127 was manually annotated 1 time for cluster EN.
- Start number 139 was manually annotated 1 time for cluster EN.

Info for manual annotations of cluster EO:

- Start number 121 was manually annotated 4 times for cluster EO.

Info for manual annotations of cluster F1:

- Start number 91 was manually annotated 1 time for cluster F1.
- Start number 99 was manually annotated 162 times for cluster F1.
- Start number 115 was manually annotated 3 times for cluster F1.
- Start number 134 was manually annotated 1 time for cluster F1.
- Start number 144 was manually annotated 2 times for cluster F1.

Info for manual annotations of cluster F4:

- Start number 70 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 101 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster FQ:

- Start number 95 was manually annotated 1 time for cluster FQ.

Info for manual annotations of cluster S:

- Start number 101 was manually annotated 18 times for cluster S.

Info for manual annotations of cluster T:

- Start number 32 was manually annotated 1 time for cluster T.
- Start number 54 was manually annotated 6 times for cluster T.

### **Gene Information:**

Gene: 20ES\_12 Start: 7443, Stop: 9233, Start Num: 63

Candidate Starts for 20ES\_12:

(18, 7269), (Start: 63 @7443 has 231 MA's), (128, 7551), (138, 7572), (173, 7680), (263, 7965), (265, 7968), (299, 8076), (Start: 313 @8166 has 1 MA's), (319, 8190), (351, 8307), (357, 8322), (433, 8622), (502, 8808), (511, 8835), (516, 8856), (545, 8952), (636, 9189), (654, 9216), (656, 9219),

Gene: 40AC\_15 Start: 9493, Stop: 11244, Start Num: 63

Candidate Starts for 40AC\_15:

(Start: 63 @9493 has 231 MA's), (Start: 77 @9511 has 1 MA's), (143, 9622), (162, 9688), (173, 9721), (174, 9724), (265, 10006), (276, 10045), (299, 10114), (303, 10138), (304, 10141), (Start: 313 @10204 has 1 MA's), (319, 10228), (344, 10327), (356, 10357), (357, 10360), (396, 10528), (401, 10546), (464, 10720), (471, 10744), (498, 10807), (516, 10867), (545, 10963), (594, 11053), (624, 11167), (625, 11170), (636, 11200), (654, 11227), (656, 11230),

Gene: 8UZL\_5 Start: 1795, Stop: 3459, Start Num: 101

Candidate Starts for 8UZL\_5:

(Start: 101 @1795 has 80 MA's), (131, 1834), (143, 1858), (203, 1987), (244, 2119), (246, 2134), (250, 2149), (265, 2194), (278, 2242), (292, 2278), (304, 2335), (307, 2359), (317, 2395), (367, 2593), (372, 2608), (383, 2647), (414, 2794), (464, 2914), (502, 3019), (533, 3127), (542, 3157), (556, 3184), (559, 3196), (587, 3232), (588, 3235), (616, 3328), (629, 3385),

Gene: A6\_09 Start: 6581, Stop: 8269, Start Num: 62

Candidate Starts for A6\_09:

(Start: 62 @6581 has 371 MA's), (Start: 179 @6761 has 2 MA's), (213, 6845), (219, 6881), (225, 6908), (265, 7031), (274, 7064), (299, 7139), (Start: 313 @7229 has 1 MA's), (319, 7253), (327, 7280), (337, 7328), (379, 7484), (392, 7544), (477, 7778), (481, 7790), (498, 7832), (505, 7853), (515, 7880), (545, 7988), (594, 8078), (621, 8183),

Gene: ACFishhook\_13 Start: 7110, Stop: 8810, Start Num: 65

Candidate Starts for ACFishhook\_13:

(Start: 65 @7110 has 85 MA's), (94, 7158), (175, 7293), (265, 7572), (Start: 313 @7770 has 1 MA's), (335, 7860), (356, 7923), (362, 7962), (392, 8085), (464, 8283), (471, 8307), (472, 8310), (498, 8373), (502, 8385), (505, 8394), (516, 8433), (545, 8529), (569, 8583), (594, 8619), (636, 8766), (656, 8796), (658, 8799),

Gene: AEgle\_2 Start: 537, Stop: 2243, Start Num: 84

Candidate Starts for AEgle\_2:

(Start: 84 @537 has 42 MA's), (Start: 137 @624 has 1 MA's), (247, 909), (265, 966), (270, 987), (280, 1014), (305, 1104), (344, 1278), (418, 1530), (464, 1653), (523, 1833), (545, 1908), (553, 1923), (599, 2058), (609, 2094), (620, 2142), (627, 2166),

Gene: AFIS\_11 Start: 6918, Stop: 8606, Start Num: 62

Candidate Starts for AFIS\_11:

(Start: 62 @6918 has 371 MA's), (Start: 179 @7098 has 2 MA's), (213, 7182), (219, 7218), (225, 7245), (265, 7368), (299, 7476), (Start: 313 @7566 has 1 MA's), (319, 7590), (327, 7617), (337, 7665), (379, 7821), (392, 7881), (472, 8106), (477, 8115), (481, 8127), (498, 8169), (505, 8190), (515, 8217), (545, 8325), (594, 8415), (621, 8520),

Gene: AGrandiflora\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for AGrandiflora\_2:

(Start: 84 @533 has 42 MA's), (247, 905), (265, 962), (280, 1010), (305, 1100), (316, 1154), (344, 1274), (367, 1364), (418, 1526), (464, 1649), (545, 1904), (553, 1919), (576, 1973), (599, 2054), (627, 2162),

Gene: AN3\_12 Start: 7428, Stop: 9218, Start Num: 63

Candidate Starts for AN3\_12:

(Start: 63 @7428 has 231 MA's), (128, 7536), (138, 7557), (173, 7665), (265, 7953), (299, 8061), (Start: 313 @8151 has 1 MA's), (319, 8175), (351, 8292), (357, 8307), (433, 8607), (502, 8793), (511, 8820), (516, 8841), (545, 8937), (636, 9174), (654, 9201), (656, 9204),

Gene: AN9\_15 Start: 7374, Stop: 9164, Start Num: 63

Candidate Starts for AN9\_15:

(Start: 37 @7296 has 19 MA's), (50, 7347), (Start: 63 @7374 has 231 MA's), (128, 7482), (138, 7503), (160, 7569), (173, 7611), (182, 7635), (225, 7773), (263, 7893), (265, 7896), (299, 8007), (Start: 313 @8097 has 1 MA's), (319, 8121), (335, 8187), (345, 8223), (356, 8250), (357, 8253), (433, 8553), (464, 8640), (475, 8673), (502, 8739), (511, 8766), (516, 8787), (539, 8871), (545, 8883), (595, 8976), (600, 8991), (636, 9120), (654, 9147), (656, 9150),

Gene: ANI8\_15 Start: 7374, Stop: 9164, Start Num: 63

Candidate Starts for ANI8\_15:

(Start: 37 @7296 has 19 MA's), (50, 7347), (Start: 63 @7374 has 231 MA's), (128, 7482), (138, 7503), (160, 7569), (173, 7611), (182, 7635), (225, 7773), (263, 7893), (265, 7896), (299, 8007), (Start: 313 @8097 has 1 MA's), (319, 8121), (335, 8187), (345, 8223), (356, 8250), (357, 8253), (433, 8553), (464, 8640), (475, 8673), (502, 8739), (511, 8766), (516, 8787), (539, 8871), (545, 8883), (595, 8976), (600, 8991), (636, 9120), (654, 9147), (656, 9150),

Gene: Aaronocolus\_6 Start: 2402, Stop: 4048, Start Num: 59

Candidate Starts for Aaronocolus\_6:

(Start: 59 @2402 has 85 MA's), (Start: 75 @2420 has 21 MA's), (189, 2624), (Start: 218 @2705 has 2 MA's), (255, 2840), (266, 2861), (296, 2948), (307, 3020), (Start: 313 @3044 has 1 MA's), (338, 3143), (357, 3197), (389, 3296), (405, 3356), (468, 3518), (470, 3527), (502, 3617), (511, 3644), (532, 3722), (533, 3725), (545, 3764), (556, 3785), (558, 3791), (563, 3809), (609, 3905), (624, 3965),

Gene: AbbyPaige\_14 Start: 7888, Stop: 9675, Start Num: 63

Candidate Starts for AbbyPaige\_14:

(Start: 63 @7888 has 231 MA's), (128, 7996), (138, 8017), (160, 8083), (161, 8089), (173, 8125), (182, 8149), (203, 8212), (263, 8407), (265, 8410), (299, 8518), (Start: 313 @8608 has 1 MA's), (319, 8632), (337, 8707), (351, 8749), (357, 8764), (433, 9064), (502, 9250), (511, 9277), (516, 9298), (545, 9394), (636, 9631), (656, 9661),

Gene: AbbysRanger\_11 Start: 6893, Stop: 8590, Start Num: 62

Candidate Starts for AbbysRanger\_11:

(Start: 62 @6893 has 371 MA's), (Start: 81 @6917 has 1 MA's), (213, 7163), (239, 7268), (263, 7346), (265, 7349), (276, 7388), (299, 7457), (303, 7481), (Start: 313 @7547 has 1 MA's), (335, 7637), (379, 7802), (401, 7889), (408, 7922), (454, 8015), (464, 8063), (471, 8087), (498, 8153), (511, 8192), (516, 8213), (545, 8309), (635, 8543), (636, 8546), (656, 8576), (658, 8579),

Gene: Abbyshoes\_12 Start: 7007, Stop: 8695, Start Num: 62

Candidate Starts for Abbyshoes\_12:

(Start: 62 @7007 has 371 MA's), (Start: 179 @7187 has 2 MA's), (213, 7271), (219, 7307), (225, 7334), (265, 7457), (299, 7565), (Start: 313 @7655 has 1 MA's), (319, 7679), (327, 7706), (337, 7754), (359, 7823), (379, 7910), (392, 7970), (472, 8195), (477, 8204), (481, 8216), (498, 8258), (505, 8279), (515, 8306), (545, 8414), (594, 8504), (621, 8609),

Gene: Abdiel\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Abdiel\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Abrogate\_120 Start: 7663, Stop: 9351, Start Num: 62

Candidate Starts for Abrogate\_120:

(Start: 62 @7663 has 371 MA's), (213, 7927), (215, 7951), (265, 8113), (274, 8146), (299, 8221), (Start: 313 @8311 has 1 MA's), (319, 8335), (327, 8362), (337, 8410), (379, 8566), (392, 8626), (472, 8851), (477, 8860), (481, 8872), (498, 8914), (505, 8935), (515, 8962), (545, 9070), (594, 9160), (621, 9265),

Gene: Abscondus\_29 Start: 8433, Stop: 10181, Start Num: 102

Candidate Starts for Abscondus\_29:

(Start: 102 @8433 has 27 MA's), (120, 8463), (186, 8589), (187, 8592), (224, 8706), (235, 8778), (241, 8817), (249, 8841), (263, 8889), (271, 8916), (326, 9138), (329, 9156), (370, 9318), (390, 9366), (396, 9381), (453, 9564), (455, 9570), (471, 9654), (501, 9741), (512, 9774), (541, 9888), (558, 9924), (569, 9948), (579, 9963), (640, 10137), (644, 10143),

Gene: Achebe\_11 Start: 6881, Stop: 8578, Start Num: 62

Candidate Starts for Achebe\_11:

(Start: 62 @6881 has 371 MA's), (Start: 81 @6905 has 1 MA's), (213, 7151), (239, 7256), (263, 7334), (265, 7337), (276, 7376), (299, 7445), (303, 7469), (Start: 313 @7535 has 1 MA's), (335, 7625), (379, 7790), (389, 7835), (401, 7877), (408, 7910), (438, 7976), (463, 8048), (464, 8051), (471, 8075), (498, 8141), (511, 8180), (516, 8201), (545, 8297), (635, 8531), (636, 8534), (656, 8564), (658, 8567),

Gene: Acme\_13 Start: 7354, Stop: 9042, Start Num: 70

Candidate Starts for Acme\_13:

(Start: 70 @7354 has 45 MA's), (175, 7525), (Start: 179 @7534 has 2 MA's), (213, 7618), (216, 7645), (219, 7654), (265, 7804), (274, 7837), (299, 7912), (Start: 313 @8002 has 1 MA's), (319, 8026), (327, 8053), (337, 8101), (379, 8257), (392, 8317), (472, 8542), (477, 8551), (481, 8563), (498, 8605), (505, 8626), (515, 8653), (545, 8761), (594, 8851), (621, 8956),

Gene: Acolyte\_12 Start: 7615, Stop: 9396, Start Num: 63

Candidate Starts for Acolyte\_12:

(Start: 63 @7615 has 231 MA's), (143, 7747), (160, 7804), (173, 7846), (225, 8008), (248, 8077), (263, 8128), (265, 8131), (276, 8170), (299, 8239), (Start: 313 @8329 has 1 MA's), (319, 8353), (344, 8452), (357, 8485), (502, 8971), (511, 8998), (516, 9019), (545, 9115), (636, 9352), (654, 9379), (656, 9382),

Gene: Adahisdi\_12 Start: 7246, Stop: 8934, Start Num: 62

Candidate Starts for Adahisdi\_12:

(Start: 62 @7246 has 371 MA's), (213, 7510), (215, 7534), (265, 7696), (274, 7729), (299, 7804),  
(Start: 313 @7894 has 1 MA's), (319, 7918), (327, 7945), (337, 7993), (379, 8149), (392, 8209), (472,  
8434), (477, 8443), (481, 8455), (498, 8497), (505, 8518), (515, 8545), (545, 8653), (594, 8743), (621,  
8848),

Gene: Adolin\_2 Start: 534, Stop: 2240, Start Num: 87

Candidate Starts for Adolin\_2:

(10, 240), (11, 243), (Start: 87 @534 has 7 MA's), (Start: 99 @555 has 202 MA's), (Start: 137 @621  
has 1 MA's), (247, 906), (265, 963), (305, 1101), (308, 1125), (316, 1155), (326, 1200), (344, 1275),  
(409, 1488), (418, 1527), (533, 1869), (545, 1905), (553, 1920), (559, 1938), (599, 2055), (609, 2091),  
(624, 2151), (627, 2163),

Gene: Adumb2043\_2 Start: 537, Stop: 2243, Start Num: 84

Candidate Starts for Adumb2043\_2:

(Start: 84 @537 has 42 MA's), (Start: 137 @624 has 1 MA's), (247, 909), (265, 966), (270, 987), (280,  
1014), (305, 1104), (344, 1278), (418, 1530), (464, 1653), (523, 1833), (545, 1908), (553, 1923), (599,  
2058), (609, 2094), (620, 2142), (624, 2154), (627, 2166), (656, 2229),

Gene: Adzzy\_13 Start: 6261, Stop: 8045, Start Num: 63

Candidate Starts for Adzzy\_13:

(Start: 63 @6261 has 231 MA's), (173, 6492), (203, 6579), (250, 6732), (263, 6774), (265, 6777), (299,  
6888), (303, 6912), (304, 6915), (Start: 313 @6978 has 1 MA's), (319, 7002), (357, 7134), (511, 7647),  
(516, 7668), (539, 7752), (545, 7764), (595, 7857), (600, 7872), (636, 8001), (654, 8028), (656, 8031),

Gene: Aeneas\_13 Start: 7341, Stop: 9029, Start Num: 62

Candidate Starts for Aeneas\_13:

(Start: 62 @7341 has 371 MA's), (213, 7605), (215, 7629), (265, 7791), (274, 7824), (299, 7899),  
(Start: 313 @7989 has 1 MA's), (319, 8013), (327, 8040), (337, 8088), (379, 8244), (392, 8304), (472,  
8529), (477, 8538), (481, 8550), (498, 8592), (505, 8613), (515, 8640), (545, 8748), (594, 8838), (621,  
8943),

Gene: Agaliana\_11 Start: 7055, Stop: 8743, Start Num: 62

Candidate Starts for Agaliana\_11:

(Start: 62 @7055 has 371 MA's), (Start: 179 @7235 has 2 MA's), (213, 7319), (219, 7355), (225, 7382),  
(265, 7505), (299, 7613), (Start: 313 @7703 has 1 MA's), (319, 7727), (337, 7802), (379, 7958), (392,  
8018), (472, 8243), (477, 8252), (481, 8264), (498, 8306), (505, 8327), (515, 8354), (545, 8462), (594,  
8552), (621, 8657),

Gene: Agape74\_14 Start: 7888, Stop: 9675, Start Num: 63

Candidate Starts for Agape74\_14:

(Start: 63 @7888 has 231 MA's), (128, 7996), (138, 8017), (160, 8083), (161, 8089), (173, 8125), (182,  
8149), (203, 8212), (263, 8407), (265, 8410), (299, 8518), (Start: 313 @8608 has 1 MA's), (319, 8632),  
(337, 8707), (351, 8749), (357, 8764), (433, 9064), (502, 9250), (511, 9277), (516, 9298), (545, 9394),  
(636, 9631), (656, 9661),

Gene: Agatha\_4 Start: 1113, Stop: 2792, Start Num: 101

Candidate Starts for Agatha\_4:

(Start: 101 @1113 has 80 MA's), (Start: 137 @1164 has 1 MA's), (147, 1185), (Start: 148 @1188 has 2  
MA's), (177, 1230), (203, 1311), (224, 1377), (225, 1386), (246, 1458), (250, 1473), (259, 1509), (265,  
1518), (278, 1569), (305, 1668), (316, 1722), (326, 1758), (362, 1902), (372, 1938), (383, 1977), (388,

2010), (408, 2091), (412, 2115), (436, 2148), (455, 2181), (463, 2238), (466, 2247), (496, 2331), (505, 2358), (523, 2418), (556, 2514), (596, 2586), (599, 2598), (632, 2718), (656, 2778), (658, 2781),

Gene: AgentM\_9 Start: 6239, Stop: 8017, Start Num: 37

Candidate Starts for AgentM\_9:

(Start: 37 @6239 has 19 MA's), (Start: 42 @6266 has 30 MA's), (73, 6335), (97, 6374), (140, 6449), (143, 6455), (203, 6587), (225, 6662), (226, 6665), (269, 6800), (284, 6839), (291, 6863), (Start: 313 @6971 has 1 MA's), (324, 7016), (342, 7094), (344, 7100), (385, 7265), (395, 7298), (401, 7319), (464, 7493), (471, 7517), (472, 7520), (498, 7580), (502, 7592), (511, 7619), (516, 7640), (539, 7724), (545, 7736), (636, 7973), (658, 8006), (660, 8012),

Gene: Aglet\_13 Start: 6958, Stop: 8658, Start Num: 65

Candidate Starts for Aglet\_13:

(Start: 65 @6958 has 85 MA's), (94, 7006), (175, 7141), (238, 7333), (265, 7420), (Start: 313 @7618 has 1 MA's), (335, 7708), (356, 7771), (392, 7933), (464, 8131), (471, 8155), (472, 8158), (498, 8221), (505, 8242), (516, 8281), (545, 8377), (569, 8431), (594, 8467), (636, 8614), (656, 8644), (658, 8647),

Gene: AgronaGT15\_13 Start: 6865, Stop: 8565, Start Num: 65

Candidate Starts for AgronaGT15\_13:

(Start: 65 @6865 has 85 MA's), (94, 6913), (175, 7048), (238, 7240), (265, 7327), (Start: 313 @7525 has 1 MA's), (335, 7615), (356, 7678), (392, 7840), (464, 8038), (471, 8062), (472, 8065), (498, 8128), (505, 8149), (516, 8188), (545, 8284), (569, 8338), (594, 8374), (636, 8521), (656, 8551), (658, 8554),

Gene: AikoCarson\_3 Start: 805, Stop: 2487, Start Num: 101

Candidate Starts for AikoCarson\_3:

(Start: 101 @805 has 80 MA's), (Start: 137 @856 has 1 MA's), (147, 877), (Start: 148 @880 has 2 MA's), (203, 1003), (216, 1042), (Start: 218 @1048 has 2 MA's), (224, 1069), (250, 1165), (259, 1201), (265, 1210), (278, 1261), (285, 1279), (305, 1360), (307, 1381), (316, 1414), (326, 1450), (362, 1594), (372, 1630), (383, 1669), (388, 1702), (401, 1750), (408, 1783), (412, 1807), (436, 1840), (463, 1930), (464, 1933), (466, 1939), (496, 2023), (498, 2029), (511, 2068), (523, 2110), (611, 2329), (632, 2410), (656, 2473), (658, 2476),

Gene: AinMach\_2 Start: 571, Stop: 2274, Start Num: 84

Candidate Starts for AinMach\_2:

(Start: 84 @571 has 42 MA's), (243, 928), (255, 979), (265, 997), (305, 1138), (316, 1192), (317, 1195), (344, 1312), (357, 1345), (391, 1459), (456, 1645), (464, 1687), (545, 1942), (553, 1957), (559, 1975), (562, 1984), (576, 2011), (589, 2059), (609, 2125), (627, 2197), (642, 2230),

Gene: Airmid\_9 Start: 6013, Stop: 7764, Start Num: 42

Candidate Starts for Airmid\_9:

(Start: 37 @5986 has 19 MA's), (Start: 42 @6013 has 30 MA's), (Start: 66 @6073 has 35 MA's), (73, 6082), (97, 6121), (140, 6196), (143, 6202), (225, 6409), (226, 6412), (284, 6586), (Start: 313 @6718 has 1 MA's), (324, 6763), (342, 6841), (344, 6847), (385, 7012), (395, 7045), (401, 7066), (464, 7240), (471, 7264), (511, 7366), (516, 7387), (531, 7441), (539, 7471), (545, 7483), (569, 7537), (635, 7717), (636, 7720), (658, 7753), (660, 7759),

Gene: Ajay\_11 Start: 7051, Stop: 8739, Start Num: 62

Candidate Starts for Ajay\_11:

(Start: 62 @7051 has 371 MA's), (213, 7315), (215, 7339), (265, 7501), (274, 7534), (299, 7609), (Start: 313 @7699 has 1 MA's), (319, 7723), (337, 7798), (379, 7954), (382, 7963), (391, 8011), (392, 8014), (472, 8239), (477, 8248), (481, 8260), (498, 8302), (505, 8323), (515, 8350), (545, 8458), (594, 8548), (621, 8653),

Gene: Akhila\_3 Start: 1235, Stop: 2872, Start Num: 99

Candidate Starts for Akhila\_3:

(Start: 99 @1235 has 202 MA's), (109, 1250), (Start: 115 @1259 has 3 MA's), (118, 1265), (Start: 134 @1292 has 1 MA's), (Start: 144 @1316 has 2 MA's), (146, 1319), (185, 1382), (189, 1400), (200, 1421), (222, 1508), (223, 1514), (233, 1568), (241, 1580), (248, 1601), (249, 1604), (252, 1625), (258, 1646), (267, 1661), (282, 1718), (296, 1757), (306, 1826), (309, 1832), (317, 1862), (318, 1865), (319, 1874), (323, 1889), (327, 1907), (338, 1958), (367, 2060), (417, 2231), (435, 2243), (450, 2261), (464, 2327), (474, 2357), (476, 2360), (478, 2363), (498, 2420), (503, 2435), (505, 2441), (506, 2444), (511, 2459), (514, 2468), (532, 2537), (543, 2567), (547, 2576), (560, 2609), (576, 2642), (593, 2669), (605, 2702), (611, 2729), (612, 2732), (617, 2753), (621, 2777), (624, 2786), (625, 2789), (650, 2846),

Gene: Alatin\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Alatin\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (440, 4236), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Albee\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Albee\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Alberto7\_12 Start: 7189, Stop: 8886, Start Num: 62

Candidate Starts for Alberto7\_12:

(Start: 62 @7189 has 371 MA's), (Start: 81 @7213 has 1 MA's), (Start: 148 @7336 has 2 MA's), (196, 7426), (213, 7459), (238, 7558), (263, 7642), (265, 7645), (276, 7684), (299, 7753), (303, 7777), (Start: 313 @7843 has 1 MA's), (335, 7933), (379, 8098), (401, 8185), (408, 8218), (438, 8284), (463, 8356), (464, 8359), (471, 8383), (494, 8434), (498, 8449), (511, 8488), (516, 8509), (545, 8605), (636, 8842), (656, 8872), (658, 8875),

Gene: Aldrich\_12 Start: 7559, Stop: 9247, Start Num: 62

Candidate Starts for Aldrich\_12:

(Start: 62 @7559 has 371 MA's), (Start: 179 @7739 has 2 MA's), (213, 7823), (219, 7859), (225, 7886), (265, 8009), (274, 8042), (299, 8117), (Start: 313 @8207 has 1 MA's), (319, 8231), (327, 8258), (337, 8306), (359, 8375), (375, 8450), (379, 8462), (382, 8471), (392, 8522), (472, 8747), (477, 8756), (481, 8768), (498, 8810), (505, 8831), (515, 8858), (545, 8966), (594, 9056), (621, 9161),

Gene: Aliter\_13 Start: 8037, Stop: 9824, Start Num: 63

Candidate Starts for Aliter\_13:

(Start: 63 @8037 has 231 MA's), (Start: 75 @8052 has 21 MA's), (Start: 80 @8058 has 5 MA's), (143, 8169), (173, 8268), (225, 8430), (248, 8502), (265, 8556), (276, 8595), (299, 8667), (Start: 313 @8757 has 1 MA's), (319, 8781), (351, 8898), (357, 8913), (382, 9021), (400, 9096), (408, 9132), (423, 9192), (468, 9312), (475, 9333), (494, 9372), (511, 9426), (512, 9429), (516, 9447), (531, 9501), (539, 9531), (545, 9543), (594, 9633), (600, 9651), (636, 9780), (654, 9807), (656, 9810),

Gene: Alma\_13 Start: 8116, Stop: 9903, Start Num: 63

Candidate Starts for Alma\_13:

(Start: 63 @8116 has 231 MA's), (Start: 75 @8131 has 21 MA's), (Start: 80 @8137 has 5 MA's), (143, 8248), (173, 8347), (225, 8509), (248, 8581), (265, 8635), (276, 8674), (299, 8746), (Start: 313 @8836

has 1 MA's), (319, 8860), (351, 8977), (357, 8992), (382, 9100), (400, 9175), (408, 9211), (423, 9271), (468, 9391), (475, 9412), (494, 9451), (511, 9505), (512, 9508), (516, 9526), (531, 9580), (539, 9610), (545, 9622), (594, 9712), (600, 9730), (636, 9859), (654, 9886), (656, 9889),

Gene: Alpacados\_7 Start: 3118, Stop: 4800, Start Num: 66

Candidate Starts for Alpacados\_7:

(Start: 66 @3118 has 35 MA's), (Start: 179 @3304 has 2 MA's), (203, 3376), (213, 3388), (215, 3412), (219, 3424), (269, 3592), (291, 3652), (303, 3709), (304, 3712), (Start: 313 @3760 has 1 MA's), (377, 4015), (383, 4033), (395, 4087), (456, 4231), (464, 4273), (475, 4306), (498, 4363), (502, 4375), (545, 4519), (563, 4564), (599, 4624), (624, 4723), (636, 4756), (654, 4783), (656, 4786), (658, 4789),

Gene: AlpineSix\_2 Start: 605, Stop: 2218, Start Num: 115

Candidate Starts for AlpineSix\_2:

(Start: 91 @578 has 1 MA's), (Start: 99 @581 has 202 MA's), (Start: 115 @605 has 3 MA's), (Start: 134 @638 has 1 MA's), (Start: 144 @662 has 2 MA's), (146, 665), (185, 728), (200, 767), (222, 854), (223, 860), (233, 914), (245, 938), (248, 947), (249, 950), (252, 971), (258, 992), (282, 1064), (296, 1103), (306, 1172), (309, 1178), (317, 1208), (318, 1211), (319, 1220), (323, 1235), (327, 1253), (338, 1304), (364, 1397), (367, 1406), (417, 1577), (435, 1589), (464, 1673), (474, 1703), (476, 1706), (478, 1709), (498, 1766), (503, 1781), (505, 1787), (506, 1790), (511, 1805), (514, 1814), (532, 1883), (543, 1913), (547, 1922), (560, 1955), (576, 1988), (593, 2015), (605, 2048), (609, 2069), (611, 2075), (612, 2078), (617, 2099), (621, 2123), (624, 2132), (625, 2135), (650, 2192),

Gene: Alsaber\_7 Start: 2515, Stop: 4161, Start Num: 61

Candidate Starts for Alsaber\_7:

(Start: 57 @2506 has 2 MA's), (Start: 61 @2515 has 11 MA's), (Start: 64 @2518 has 1 MA's), (Start: 75 @2533 has 21 MA's), (189, 2737), (203, 2773), (Start: 218 @2818 has 2 MA's), (246, 2911), (250, 2926), (255, 2953), (259, 2962), (266, 2974), (296, 3061), (304, 3109), (Start: 313 @3157 has 1 MA's), (338, 3256), (351, 3295), (389, 3409), (395, 3430), (405, 3469), (441, 3550), (464, 3619), (466, 3625), (470, 3640), (494, 3703), (532, 3835), (545, 3877), (558, 3904), (563, 3922), (624, 4078),

Gene: Alsfro\_15 Start: 7794, Stop: 9482, Start Num: 62

Candidate Starts for Alsfro\_15:

(Start: 62 @7794 has 371 MA's), (213, 8058), (215, 8082), (265, 8244), (274, 8277), (299, 8352), (Start: 313 @8442 has 1 MA's), (319, 8466), (327, 8493), (337, 8541), (359, 8610), (379, 8697), (382, 8706), (391, 8754), (392, 8757), (477, 8991), (481, 9003), (498, 9045), (505, 9066), (515, 9093), (545, 9201), (594, 9291), (621, 9396),

Gene: Altman\_12 Start: 7589, Stop: 9277, Start Num: 62

Candidate Starts for Altman\_12:

(Start: 62 @7589 has 371 MA's), (213, 7853), (215, 7877), (265, 8039), (274, 8072), (299, 8147), (Start: 313 @8237 has 1 MA's), (319, 8261), (327, 8288), (337, 8336), (379, 8492), (392, 8552), (477, 8786), (481, 8798), (498, 8840), (505, 8861), (515, 8888), (545, 8996), (594, 9086), (621, 9191),

Gene: Alvin\_12 Start: 7262, Stop: 8950, Start Num: 62

Candidate Starts for Alvin\_12:

(Start: 62 @7262 has 371 MA's), (213, 7526), (215, 7550), (265, 7712), (274, 7745), (299, 7820), (Start: 313 @7910 has 1 MA's), (319, 7934), (327, 7961), (337, 8009), (379, 8165), (392, 8225), (472, 8450), (477, 8459), (481, 8471), (498, 8513), (505, 8534), (515, 8561), (545, 8669), (594, 8759), (621, 8864),

Gene: Alvy\_8 Start: 2347, Stop: 3993, Start Num: 59

Candidate Starts for Alvy\_8:

(Start: 59 @2347 has 85 MA's), (Start: 150 @2497 has 2 MA's), (213, 2617), (Start: 218 @2650 has 2 MA's), (246, 2743), (250, 2758), (255, 2785), (266, 2806), (296, 2893), (307, 2965), (Start: 313 @2989 has 1 MA's), (338, 3088), (347, 3124), (376, 3229), (396, 3265), (405, 3301), (409, 3319), (463, 3448), (464, 3451), (468, 3463), (470, 3472), (472, 3478), (473, 3481), (502, 3562), (511, 3589), (533, 3670), (545, 3709), (556, 3730), (563, 3754), (592, 3796), (599, 3814), (624, 3910), (660, 3988),

Gene: Amela\_6 Start: 2575, Stop: 4221, Start Num: 61

Candidate Starts for Amela\_6:

(Start: 57 @2566 has 2 MA's), (Start: 61 @2575 has 11 MA's), (Start: 64 @2578 has 1 MA's), (Start: 75 @2593 has 21 MA's), (107, 2647), (120, 2671), (189, 2797), (Start: 218 @2878 has 2 MA's), (246, 2971), (250, 2986), (255, 3013), (259, 3022), (266, 3034), (296, 3121), (304, 3169), (Start: 313 @3217 has 1 MA's), (338, 3316), (351, 3355), (389, 3469), (395, 3490), (405, 3529), (464, 3679), (466, 3685), (470, 3700), (475, 3712), (494, 3763), (511, 3817), (532, 3895), (533, 3898), (545, 3937), (558, 3964), (563, 3982), (624, 4138),

Gene: Amethyst\_6 Start: 2142, Stop: 3791, Start Num: 59

Candidate Starts for Amethyst\_6:

(Start: 59 @2142 has 85 MA's), (120, 2241), (182, 2340), (189, 2367), (213, 2415), (Start: 218 @2448 has 2 MA's), (250, 2556), (255, 2583), (266, 2604), (282, 2649), (296, 2691), (307, 2763), (Start: 313 @2787 has 1 MA's), (338, 2886), (347, 2922), (357, 2940), (395, 3060), (396, 3063), (405, 3099), (441, 3180), (454, 3201), (470, 3270), (475, 3282), (494, 3333), (511, 3387), (545, 3507), (556, 3528), (563, 3552), (599, 3612), (624, 3708), (660, 3786),

Gene: Amok\_3 Start: 806, Stop: 2488, Start Num: 101

Candidate Starts for Amok\_3:

(Start: 101 @806 has 80 MA's), (Start: 137 @857 has 1 MA's), (147, 878), (Start: 148 @881 has 2 MA's), (Start: 218 @1049 has 2 MA's), (225, 1079), (246, 1151), (250, 1166), (259, 1202), (265, 1211), (266, 1214), (278, 1262), (299, 1331), (305, 1361), (307, 1382), (317, 1418), (326, 1451), (354, 1556), (362, 1595), (372, 1631), (383, 1670), (388, 1703), (401, 1751), (408, 1784), (412, 1808), (436, 1841), (466, 1940), (468, 1946), (496, 2024), (511, 2069), (523, 2111), (556, 2207), (611, 2330), (632, 2411), (656, 2474), (658, 2477),

Gene: Amploria\_2 Start: 537, Stop: 2243, Start Num: 84

Candidate Starts for Amploria\_2:

(Start: 84 @537 has 42 MA's), (Start: 137 @624 has 1 MA's), (247, 909), (265, 966), (270, 987), (280, 1014), (305, 1104), (344, 1278), (418, 1530), (464, 1653), (523, 1833), (545, 1908), (553, 1923), (599, 2058), (609, 2094), (620, 2142), (624, 2154), (627, 2166),

Gene: Amyev\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for Amyev\_2:

(Start: 84 @533 has 42 MA's), (126, 599), (247, 905), (265, 962), (270, 983), (280, 1010), (305, 1100), (316, 1154), (326, 1199), (344, 1274), (418, 1526), (464, 1649), (523, 1829), (545, 1904), (553, 1919), (599, 2054), (624, 2150), (627, 2162),

Gene: Anaysia\_14 Start: 6686, Stop: 8383, Start Num: 63

Candidate Starts for Anaysia\_14:

(Start: 63 @6686 has 231 MA's), (78, 6704), (175, 6866), (225, 7022), (248, 7091), (265, 7145), (299, 7253), (304, 7280), (Start: 313 @7343 has 1 MA's), (319, 7367), (471, 7883), (498, 7946), (512, 7988), (545, 8102), (599, 8207), (636, 8339), (654, 8366), (656, 8369), (658, 8372),

Gene: AndPeggy\_3 Start: 1120, Stop: 2799, Start Num: 101

Candidate Starts for AndPeggy\_3:

(Start: 101 @1120 has 80 MA's), (Start: 137 @1171 has 1 MA's), (147, 1192), (Start: 148 @1195 has 2 MA's), (177, 1237), (201, 1303), (Start: 218 @1363 has 2 MA's), (224, 1384), (225, 1393), (250, 1480), (259, 1516), (265, 1525), (278, 1576), (305, 1675), (307, 1696), (316, 1729), (326, 1765), (362, 1909), (372, 1945), (383, 1984), (414, 2131), (436, 2155), (466, 2254), (496, 2338), (523, 2425), (556, 2521), (587, 2569), (596, 2593), (611, 2644), (632, 2725), (656, 2785), (658, 2788),

Gene: Andris\_6 Start: 2176, Stop: 3822, Start Num: 59

Candidate Starts for Andris\_6:

(Start: 59 @2176 has 85 MA's), (72, 2188), (213, 2446), (Start: 218 @2479 has 2 MA's), (246, 2572), (255, 2614), (266, 2635), (296, 2722), (307, 2794), (Start: 313 @2818 has 1 MA's), (338, 2917), (347, 2953), (357, 2971), (396, 3094), (405, 3130), (468, 3292), (470, 3301), (511, 3418), (533, 3499), (545, 3538), (556, 3559), (563, 3583), (599, 3643), (623, 3736), (624, 3739),

Gene: Aneem\_12 Start: 8024, Stop: 9787, Start Num: 63

Candidate Starts for Aneem\_12:

(Start: 63 @8024 has 231 MA's), (Start: 80 @8045 has 5 MA's), (128, 8132), (173, 8261), (182, 8285), (203, 8348), (248, 8492), (263, 8543), (265, 8546), (299, 8657), (303, 8681), (304, 8684), (Start: 313 @8747 has 1 MA's), (316, 8756), (319, 8771), (351, 8888), (357, 8903), (368, 8963), (389, 9047), (468, 9275), (471, 9287), (494, 9335), (498, 9350), (511, 9389), (516, 9410), (527, 9449), (539, 9494), (545, 9506), (636, 9743), (654, 9770),

Gene: Anekin\_2 Start: 597, Stop: 2330, Start Num: 101

Candidate Starts for Anekin\_2:

(Start: 101 @597 has 80 MA's), (Start: 137 @663 has 1 MA's), (Start: 150 @690 has 2 MA's), (152, 693), (205, 846), (241, 1014), (265, 1101), (293, 1188), (311, 1278), (319, 1311), (321, 1320), (328, 1341), (336, 1377), (342, 1389), (386, 1518), (398, 1557), (412, 1626), (457, 1704), (467, 1740), (511, 1881), (512, 1884), (522, 1944), (529, 1980), (539, 2028), (555, 2061), (569, 2094), (621, 2235), (636, 2277), (648, 2304),

Gene: Angelique\_2 Start: 485, Stop: 2281, Start Num: 70

Candidate Starts for Angelique\_2:

(Start: 70 @485 has 45 MA's), (201, 779), (203, 794), (228, 878), (243, 920), (246, 929), (254, 968), (265, 989), (295, 1073), (305, 1127), (306, 1145), (Start: 313 @1172 has 1 MA's), (316, 1181), (331, 1256), (345, 1307), (350, 1328), (401, 1487), (412, 1544), (442, 1589), (456, 1613), (472, 1682), (475, 1688), (479, 1697), (497, 1766), (533, 1904), (539, 1940), (545, 1952), (558, 1976), (569, 2003), (598, 2090), (609, 2132), (623, 2189), (632, 2219), (643, 2243), (656, 2267), (658, 2270),

Gene: AngryOrchard\_7 Start: 3101, Stop: 4783, Start Num: 66

Candidate Starts for AngryOrchard\_7:

(Start: 66 @3101 has 35 MA's), (Start: 179 @3287 has 2 MA's), (203, 3359), (213, 3371), (215, 3395), (219, 3407), (269, 3575), (291, 3635), (Start: 313 @3743 has 1 MA's), (377, 3998), (395, 4070), (396, 4073), (456, 4214), (464, 4256), (475, 4289), (498, 4346), (502, 4358), (545, 4502), (563, 4547), (599, 4607), (624, 4706), (636, 4739), (654, 4766), (656, 4769), (658, 4772),

Gene: Animus\_7 Start: 2523, Stop: 4169, Start Num: 59

Candidate Starts for Animus\_7:

(Start: 59 @2523 has 85 MA's), (201, 2766), (203, 2781), (213, 2793), (246, 2919), (255, 2961), (257, 2967), (266, 2982), (296, 3069), (307, 3141), (Start: 313 @3165 has 1 MA's), (338, 3264), (347, 3300), (357, 3318), (396, 3441), (405, 3477), (468, 3639), (470, 3648), (494, 3711), (511, 3765), (533, 3846), (545, 3885), (556, 3906), (563, 3930), (623, 4083), (624, 4086),

Gene: AnnaL29\_15 Start: 9319, Stop: 11079, Start Num: 63

Candidate Starts for AnnaL29\_15:

(35, 9235), (Start: 63 @9319 has 231 MA's), (128, 9427), (138, 9448), (165, 9532), (173, 9556), (203, 9643), (221, 9697), (248, 9787), (265, 9841), (299, 9949), (Start: 313 @10039 has 1 MA's), (319, 10063), (357, 10195), (389, 10339), (433, 10471), (464, 10555), (494, 10627), (498, 10642), (511, 10681), (512, 10684), (516, 10702), (545, 10798), (576, 10867), (636, 11035), (654, 11062), (656, 11065), (658, 11068), (659, 11071),

Gene: Annyong\_11 Start: 6885, Stop: 8582, Start Num: 62

Candidate Starts for Annyong\_11:

(Start: 62 @6885 has 371 MA's), (Start: 81 @6909 has 1 MA's), (Start: 148 @7032 has 2 MA's), (196, 7122), (213, 7155), (238, 7254), (263, 7338), (265, 7341), (276, 7380), (299, 7449), (303, 7473), (Start: 313 @7539 has 1 MA's), (335, 7629), (379, 7794), (401, 7881), (408, 7914), (438, 7980), (463, 8052), (464, 8055), (471, 8079), (494, 8130), (498, 8145), (511, 8184), (516, 8205), (545, 8301), (636, 8538), (656, 8568), (658, 8571),

Gene: Anon\_12 Start: 7031, Stop: 8731, Start Num: 63

Candidate Starts for Anon\_12:

(Start: 63 @7031 has 231 MA's), (78, 7049), (186, 7241), (225, 7367), (250, 7448), (265, 7493), (299, 7601), (303, 7625), (Start: 313 @7691 has 1 MA's), (319, 7715), (383, 7958), (471, 8231), (472, 8234), (545, 8450), (594, 8540), (595, 8543), (636, 8687), (654, 8714), (656, 8717), (658, 8720),

Gene: Anselm\_12 Start: 7545, Stop: 9335, Start Num: 63

Candidate Starts for Anselm\_12:

(Start: 63 @7545 has 231 MA's), (128, 7653), (138, 7674), (173, 7782), (189, 7833), (265, 8070), (299, 8178), (Start: 313 @8268 has 1 MA's), (319, 8292), (351, 8409), (357, 8424), (433, 8724), (502, 8910), (511, 8937), (516, 8958), (545, 9054), (636, 9291), (656, 9321),

Gene: Anthony\_11 Start: 5672, Stop: 7372, Start Num: 68

Candidate Starts for Anthony\_11:

(Start: 68 @5672 has 1 MA's), (Start: 148 @5813 has 2 MA's), (175, 5852), (263, 6128), (265, 6131), (289, 6203), (299, 6242), (310, 6314), (Start: 313 @6332 has 1 MA's), (344, 6455), (353, 6479), (356, 6485), (377, 6581), (408, 6707), (438, 6773), (456, 6806), (471, 6872), (511, 6974), (516, 6995), (531, 7049), (545, 7091), (558, 7118), (569, 7145), (635, 7325), (636, 7328), (658, 7361),

Gene: Anubis\_15 Start: 6843, Stop: 8543, Start Num: 65

Candidate Starts for Anubis\_15:

(Start: 65 @6843 has 85 MA's), (94, 6891), (Start: 137 @6963 has 1 MA's), (175, 7026), (238, 7218), (265, 7305), (Start: 313 @7503 has 1 MA's), (335, 7593), (356, 7656), (392, 7818), (464, 8016), (471, 8040), (472, 8043), (498, 8106), (505, 8127), (516, 8166), (545, 8262), (569, 8316), (594, 8352), (636, 8499), (656, 8529), (658, 8532),

Gene: Aphelion\_30 Start: 8680, Stop: 10428, Start Num: 102

Candidate Starts for Aphelion\_30:

(Start: 102 @8680 has 27 MA's), (120, 8710), (187, 8839), (235, 9025), (241, 9064), (249, 9088), (254, 9118), (263, 9136), (271, 9163), (280, 9193), (326, 9385), (329, 9403), (370, 9565), (390, 9613), (396, 9628), (453, 9811), (455, 9817), (471, 9901), (501, 9988), (512, 10021), (541, 10135), (558, 10171), (569, 10195), (579, 10210), (640, 10384), (644, 10390),

Gene: Apiary\_28 Start: 14038, Stop: 15711, Start Num: 99

Candidate Starts for Apiary\_28:

(Start: 99 @14038 has 202 MA's), (184, 14182), (197, 14233), (241, 14407), (248, 14428), (252, 14452), (262, 14479), (272, 14512), (293, 14578), (302, 14626), (317, 14689), (323, 14716), (367, 14884), (371, 14896), (405, 15007), (416, 15058), (465, 15157), (492, 15256), (494, 15268), (502, 15295), (506, 15307), (511, 15322), (531, 15397), (547, 15430), (560, 15463), (605, 15547), (609,

15568), (621, 15616), (653, 15691),

Gene: AppleCloud\_6 Start: 2865, Stop: 4547, Start Num: 66

Candidate Starts for AppleCloud\_6:

(Start: 66 @2865 has 35 MA's), (Start: 179 @3051 has 2 MA's), (203, 3123), (213, 3135), (215, 3159), (219, 3171), (269, 3339), (291, 3399), (Start: 313 @3507 has 1 MA's), (377, 3762), (395, 3834), (456, 3978), (463, 4017), (464, 4020), (475, 4053), (502, 4122), (545, 4266), (563, 4311), (599, 4371), (636, 4503), (654, 4530), (656, 4533), (658, 4536),

Gene: Applejack\_11 Start: 6989, Stop: 8677, Start Num: 62

Candidate Starts for Applejack\_11:

(Start: 62 @6989 has 371 MA's), (213, 7253), (215, 7277), (265, 7439), (274, 7472), (299, 7547), (308, 7601), (Start: 313 @7637 has 1 MA's), (319, 7661), (327, 7688), (337, 7736), (359, 7805), (379, 7892), (392, 7952), (477, 8186), (481, 8198), (498, 8240), (505, 8261), (515, 8288), (545, 8396), (594, 8486), (621, 8591),

Gene: Apricot\_2 Start: 453, Stop: 2147, Start Num: 83

Candidate Starts for Apricot\_2:

(34, 324), (39, 357), (41, 360), (46, 378), (56, 411), (60, 420), (Start: 83 @453 has 13 MA's), (Start: 101 @486 has 80 MA's), (Start: 137 @537 has 1 MA's), (143, 549), (154, 576), (201, 666), (224, 747), (225, 756), (226, 759), (238, 792), (250, 843), (259, 879), (261, 882), (265, 888), (270, 903), (271, 906), (276, 924), (282, 942), (299, 996), (307, 1047), (Start: 313 @1071 has 1 MA's), (335, 1158), (352, 1218), (357, 1227), (362, 1263), (372, 1299), (383, 1338), (384, 1341), (388, 1371), (430, 1503), (436, 1509), (460, 1572), (463, 1599), (471, 1626), (472, 1629), (479, 1644), (498, 1701), (511, 1740), (533, 1821), (542, 1851), (571, 1914), (599, 1962), (600, 1965), (624, 2058), (625, 2061), (629, 2079), (635, 2088), (640, 2100), (658, 2136),

Gene: Aragog\_9 Start: 6296, Stop: 8047, Start Num: 42

Candidate Starts for Aragog\_9:

(Start: 37 @6269 has 19 MA's), (Start: 42 @6296 has 30 MA's), (73, 6365), (140, 6479), (143, 6485), (203, 6617), (225, 6692), (226, 6695), (284, 6869), (291, 6893), (Start: 313 @7001 has 1 MA's), (324, 7046), (342, 7124), (344, 7130), (345, 7133), (385, 7295), (386, 7301), (395, 7328), (401, 7349), (464, 7523), (471, 7547), (472, 7550), (498, 7610), (502, 7622), (511, 7649), (516, 7670), (531, 7724), (539, 7754), (545, 7766), (636, 8003), (658, 8036), (660, 8042),

Gene: Arcanine\_12 Start: 6925, Stop: 8613, Start Num: 62

Candidate Starts for Arcanine\_12:

(Start: 62 @6925 has 371 MA's), (213, 7189), (215, 7213), (265, 7375), (274, 7408), (299, 7483), (Start: 313 @7573 has 1 MA's), (319, 7597), (327, 7624), (337, 7672), (375, 7816), (379, 7828), (392, 7888), (472, 8113), (477, 8122), (481, 8134), (498, 8176), (505, 8197), (515, 8224), (545, 8332), (594, 8422), (621, 8527),

Gene: ArcherNM\_14 Start: 9227, Stop: 11014, Start Num: 63

Candidate Starts for ArcherNM\_14:

(28, 9107), (Start: 63 @9227 has 231 MA's), (128, 9335), (138, 9356), (173, 9464), (189, 9515), (203, 9551), (221, 9605), (263, 9746), (265, 9749), (276, 9788), (299, 9857), (Start: 313 @9947 has 1 MA's), (319, 9971), (357, 10103), (464, 10490), (502, 10589), (511, 10616), (516, 10637), (539, 10721), (545, 10733), (636, 10970), (654, 10997), (656, 11000), (658, 11003), (659, 11006),

Gene: Archetta\_9 Start: 5978, Stop: 7756, Start Num: 37

Candidate Starts for Archetta\_9:

(Start: 37 @5978 has 19 MA's), (Start: 42 @6005 has 30 MA's), (73, 6074), (97, 6113), (140, 6188), (143, 6194), (203, 6326), (225, 6401), (226, 6404), (269, 6539), (284, 6578), (291, 6602), (Start: 313

@6710 has 1 MA's), (324, 6755), (342, 6833), (344, 6839), (385, 7004), (395, 7037), (401, 7058), (464, 7232), (471, 7256), (472, 7259), (498, 7319), (502, 7331), (511, 7358), (516, 7379), (539, 7463), (545, 7475), (636, 7712), (658, 7745), (660, 7751),

Gene: ArcusAngelus\_2 Start: 573, Stop: 2210, Start Num: 99

Candidate Starts for ArcusAngelus\_2:

(Start: 99 @573 has 202 MA's), (Start: 105 @582 has 2 MA's), (Start: 115 @597 has 3 MA's), (Start: 127 @618 has 1 MA's), (Start: 134 @630 has 1 MA's), (Start: 144 @654 has 2 MA's), (146, 657), (185, 720), (200, 759), (222, 846), (233, 906), (241, 918), (245, 930), (248, 939), (249, 942), (252, 963), (258, 984), (267, 999), (282, 1056), (296, 1095), (306, 1164), (309, 1170), (317, 1200), (318, 1203), (319, 1212), (323, 1227), (327, 1245), (338, 1296), (364, 1389), (367, 1398), (417, 1569), (435, 1581), (464, 1665), (474, 1695), (476, 1698), (478, 1701), (498, 1758), (503, 1773), (505, 1779), (506, 1782), (511, 1797), (514, 1806), (532, 1875), (543, 1905), (547, 1914), (560, 1947), (576, 1980), (593, 2007), (605, 2040), (609, 2061), (611, 2067), (612, 2070), (617, 2091), (621, 2115), (624, 2124), (625, 2127), (650, 2184),

Gene: Ardmore\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Ardmore\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Arianna\_3 Start: 1236, Stop: 2873, Start Num: 121

Candidate Starts for Arianna\_3:

(Start: 121 @1236 has 5 MA's), (132, 1260), (163, 1338), (186, 1404), (219, 1503), (224, 1521), (225, 1530), (227, 1536), (241, 1584), (243, 1590), (246, 1599), (255, 1641), (257, 1647), (259, 1650), (265, 1659), (288, 1737), (Start: 313 @1854 has 1 MA's), (317, 1866), (318, 1869), (319, 1878), (335, 1941), (357, 2013), (362, 2046), (391, 2124), (427, 2235), (456, 2280), (496, 2412), (498, 2418), (536, 2550), (545, 2589), (594, 2679), (603, 2706), (623, 2787), (627, 2802), (628, 2805), (634, 2814), (658, 2862),

Gene: Arissanae\_11 Start: 6238, Stop: 8028, Start Num: 63

Candidate Starts for Arissanae\_11:

(Start: 63 @6238 has 231 MA's), (Start: 75 @6253 has 21 MA's), (143, 6370), (173, 6469), (225, 6631), (248, 6703), (265, 6757), (276, 6796), (299, 6868), (Start: 313 @6958 has 1 MA's), (319, 6982), (357, 7114), (382, 7222), (400, 7297), (408, 7333), (423, 7393), (444, 7429), (468, 7513), (475, 7534), (511, 7630), (512, 7633), (516, 7651), (531, 7705), (539, 7735), (545, 7747), (594, 7837), (600, 7855), (615, 7906), (636, 7984), (654, 8011), (656, 8014),

Gene: Arlo\_10 Start: 6614, Stop: 8302, Start Num: 62

Candidate Starts for Arlo\_10:

(Start: 62 @6614 has 371 MA's), (213, 6878), (215, 6902), (265, 7064), (274, 7097), (299, 7172), (Start: 313 @7262 has 1 MA's), (319, 7286), (327, 7313), (337, 7361), (359, 7430), (375, 7505), (379, 7517), (392, 7577), (477, 7811), (481, 7823), (498, 7865), (505, 7886), (515, 7913), (545, 8021), (594, 8111), (621, 8216),

Gene: Artemis2UCLA\_15 Start: 7416, Stop: 9170, Start Num: 63

Candidate Starts for Artemis2UCLA\_15:

(Start: 63 @7416 has 231 MA's), (143, 7548), (173, 7647), (182, 7671), (189, 7698), (203, 7734), (225, 7809), (265, 7932), (269, 7947), (276, 7971), (299, 8040), (303, 8064), (304, 8067), (Start: 313 @8130 has 1 MA's), (319, 8154), (356, 8283), (357, 8286), (383, 8397), (432, 8559), (464, 8646), (468, 8658), (471, 8670), (494, 8718), (498, 8733), (511, 8772), (516, 8793), (539, 8877), (545, 8889), (636, 9126), (654, 9153), (656, 9156),

Gene: Arti\_24 Start: 12115, Stop: 13842, Start Num: 96

Candidate Starts for Arti\_24:

(19, 11881), (43, 12010), (Start: 96 @12115 has 12 MA's), (184, 12265), (197, 12316), (200, 12322), (212, 12361), (216, 12391), (223, 12415), (225, 12433), (229, 12460), (236, 12523), (241, 12541), (317, 12826), (323, 12853), (343, 12937), (367, 13021), (371, 13033), (380, 13066), (405, 13144), (444, 13222), (464, 13294), (476, 13327), (492, 13390), (498, 13417), (506, 13441), (514, 13465), (547, 13564), (567, 13612), (621, 13750), (629, 13780), (659, 13834),

Gene: Arturo\_10 Start: 6995, Stop: 8692, Start Num: 62

Candidate Starts for Arturo\_10:

(Start: 62 @6995 has 371 MA's), (Start: 81 @7019 has 1 MA's), (Start: 148 @7142 has 2 MA's), (196, 7232), (213, 7265), (238, 7364), (263, 7448), (265, 7451), (276, 7490), (299, 7559), (303, 7583), (Start: 313 @7649 has 1 MA's), (335, 7739), (379, 7904), (401, 7991), (408, 8024), (438, 8090), (464, 8165), (471, 8189), (498, 8255), (511, 8294), (516, 8315), (545, 8411), (635, 8645), (636, 8648), (656, 8678), (658, 8681),

Gene: Asa16\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for Asa16\_2:

(Start: 84 @533 has 42 MA's), (Start: 137 @620 has 1 MA's), (247, 905), (265, 962), (270, 983), (280, 1010), (305, 1100), (316, 1154), (326, 1199), (344, 1274), (367, 1364), (409, 1487), (418, 1526), (464, 1649), (523, 1829), (531, 1862), (545, 1904), (553, 1919), (599, 2054), (609, 2090), (624, 2150), (627, 2162),

Gene: Ascela\_2 Start: 534, Stop: 2240, Start Num: 84

Candidate Starts for Ascela\_2:

(Start: 84 @534 has 42 MA's), (247, 906), (265, 963), (280, 1011), (305, 1101), (326, 1200), (344, 1275), (367, 1365), (409, 1488), (418, 1527), (464, 1650), (523, 1830), (533, 1869), (545, 1905), (553, 1920), (599, 2055), (620, 2139), (624, 2151), (627, 2163),

Gene: Ashballer\_10 Start: 7174, Stop: 8682, Start Num: 179

Candidate Starts for Ashballer\_10:

(Start: 70 @6994 has 45 MA's), (Start: 179 @7174 has 2 MA's), (213, 7258), (216, 7285), (219, 7294), (265, 7444), (299, 7552), (Start: 313 @7642 has 1 MA's), (319, 7666), (327, 7693), (337, 7741), (375, 7885), (379, 7897), (382, 7906), (392, 7957), (477, 8191), (481, 8203), (498, 8245), (505, 8266), (515, 8293), (545, 8401), (594, 8491), (621, 8596),

Gene: Ashes\_2 Start: 594, Stop: 2282, Start Num: 90

Candidate Starts for Ashes\_2:

(Start: 90 @594 has 17 MA's), (201, 795), (243, 939), (250, 963), (265, 1008), (295, 1095), (305, 1149), (312, 1188), (344, 1323), (371, 1425), (453, 1647), (464, 1698), (533, 1917), (545, 1953), (553, 1968), (624, 2193), (627, 2205), (634, 2220), (658, 2271),

Gene: Asten\_6 Start: 2376, Stop: 4022, Start Num: 59

Candidate Starts for Asten\_6:

(Start: 59 @2376 has 85 MA's), (Start: 75 @2394 has 21 MA's), (Start: 150 @2526 has 2 MA's), (189, 2598), (203, 2634), (255, 2814), (266, 2835), (282, 2880), (296, 2922), (307, 2994), (Start: 313 @3018 has 1 MA's), (338, 3117), (342, 3132), (351, 3156), (353, 3162), (405, 3330), (464, 3480), (470, 3501),

(494, 3564), (502, 3591), (533, 3699), (545, 3738), (556, 3759), (558, 3765), (563, 3783), (609, 3879), (624, 3939), (660, 4017),

Gene: Astro\_9 Start: 5704, Stop: 7458, Start Num: 42

Candidate Starts for Astro\_9:

(Start: 42 @5704 has 30 MA's), (Start: 54 @5746 has 7 MA's), (Start: 81 @5785 has 1 MA's), (143, 5893), (225, 6100), (291, 6301), (Start: 313 @6409 has 1 MA's), (344, 6538), (385, 6703), (395, 6736), (441, 6856), (464, 6931), (505, 7042), (511, 7060), (516, 7081), (531, 7135), (545, 7177), (599, 7282), (624, 7381), (636, 7414), (658, 7447), (660, 7453),

Gene: Atkinbua\_12 Start: 6969, Stop: 8657, Start Num: 62

Candidate Starts for Atkinbua\_12:

(Start: 62 @6969 has 371 MA's), (213, 7233), (215, 7257), (265, 7419), (274, 7452), (299, 7527), (Start: 313 @7617 has 1 MA's), (319, 7641), (327, 7668), (337, 7716), (359, 7785), (379, 7872), (382, 7881), (392, 7932), (477, 8166), (481, 8178), (498, 8220), (505, 8241), (515, 8268), (545, 8376), (594, 8466), (621, 8571),

Gene: Attoomi\_3 Start: 881, Stop: 2503, Start Num: 92

Candidate Starts for Attoomi\_3:

(Start: 92 @881 has 1 MA's), (118, 920), (Start: 137 @953 has 1 MA's), (216, 1136), (222, 1154), (248, 1241), (255, 1277), (265, 1295), (270, 1313), (276, 1334), (290, 1370), (296, 1382), (305, 1433), (Start: 313 @1478 has 1 MA's), (315, 1484), (327, 1535), (330, 1556), (335, 1574), (356, 1637), (359, 1652), (362, 1673), (389, 1739), (399, 1775), (405, 1799), (409, 1817), (411, 1835), (431, 1868), (458, 1922), (464, 1946), (466, 1952), (468, 1958), (498, 2045), (516, 2105), (523, 2126), (532, 2162), (533, 2165), (539, 2189), (545, 2201), (563, 2246), (576, 2270), (599, 2321), (627, 2429), (656, 2489),

Gene: Aubs\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Aubs\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: AugsMagnumOpus\_15 Start: 6949, Stop: 8649, Start Num: 65

Candidate Starts for AugsMagnumOpus\_15:

(Start: 65 @6949 has 85 MA's), (94, 6997), (175, 7132), (238, 7324), (265, 7411), (Start: 313 @7609 has 1 MA's), (335, 7699), (356, 7762), (392, 7924), (464, 8122), (471, 8146), (472, 8149), (498, 8212), (505, 8233), (516, 8272), (545, 8368), (569, 8422), (594, 8458), (636, 8605), (656, 8635), (658, 8638),

Gene: AvatarAhPeg\_11 Start: 6848, Stop: 8545, Start Num: 62

Candidate Starts for AvatarAhPeg\_11:

(Start: 62 @6848 has 371 MA's), (Start: 81 @6872 has 1 MA's), (Start: 179 @7034 has 2 MA's), (213, 7118), (263, 7301), (265, 7304), (276, 7343), (299, 7412), (303, 7436), (308, 7466), (Start: 313 @7502 has 1 MA's), (335, 7592), (379, 7757), (389, 7802), (401, 7844), (408, 7877), (438, 7943), (464, 8018), (471, 8042), (498, 8108), (511, 8147), (516, 8168), (545, 8264), (636, 8501), (656, 8531), (658, 8534),

Gene: Avle17\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Avle17\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Axiom\_7 Start: 2171, Stop: 3832, Start Num: 59

Candidate Starts for Axiom\_7:

(Start: 59 @2171 has 85 MA's), (Start: 218 @2489 has 2 MA's), (246, 2582), (250, 2597), (255, 2624), (266, 2645), (Start: 313 @2828 has 1 MA's), (321, 2861), (335, 2915), (344, 2948), (356, 2978), (357, 2981), (362, 3017), (396, 3104), (397, 3110), (405, 3140), (409, 3158), (463, 3287), (464, 3290), (468, 3302), (470, 3311), (473, 3320), (502, 3401), (511, 3428), (545, 3548), (556, 3569), (563, 3593), (599, 3653), (624, 3749), (660, 3827),

Gene: Axym\_4 Start: 1113, Stop: 2792, Start Num: 101

Candidate Starts for Axym\_4:

(Start: 101 @1113 has 80 MA's), (Start: 137 @1164 has 1 MA's), (147, 1185), (Start: 148 @1188 has 2 MA's), (177, 1230), (203, 1311), (224, 1377), (225, 1386), (246, 1458), (250, 1473), (259, 1509), (265, 1518), (278, 1569), (305, 1668), (316, 1722), (326, 1758), (362, 1902), (372, 1938), (383, 1977), (388, 2010), (401, 2058), (408, 2091), (412, 2115), (436, 2148), (455, 2181), (463, 2238), (466, 2247), (496, 2331), (505, 2358), (523, 2418), (556, 2514), (596, 2586), (599, 2598), (632, 2718), (656, 2778), (658, 2781),

Gene: Ayanochan\_14 Start: 8157, Stop: 9929, Start Num: 75

Candidate Starts for Ayanochan\_14:

(Start: 63 @8142 has 231 MA's), (Start: 75 @8157 has 21 MA's), (Start: 80 @8163 has 5 MA's), (143, 8274), (173, 8373), (225, 8535), (248, 8607), (265, 8661), (276, 8700), (299, 8772), (Start: 313 @8862 has 1 MA's), (319, 8886), (351, 9003), (357, 9018), (382, 9126), (400, 9201), (408, 9237), (423, 9297), (468, 9417), (475, 9438), (494, 9477), (511, 9531), (512, 9534), (516, 9552), (531, 9606), (539, 9636), (545, 9648), (594, 9738), (600, 9756), (636, 9885), (654, 9912), (656, 9915),

Gene: Azira\_6 Start: 1989, Stop: 3689, Start Num: 101

Candidate Starts for Azira\_6:

(Start: 101 @1989 has 80 MA's), (120, 2019), (147, 2061), (203, 2199), (219, 2247), (226, 2277), (238, 2310), (250, 2361), (252, 2376), (265, 2406), (278, 2457), (305, 2556), (307, 2577), (326, 2646), (335, 2688), (343, 2718), (383, 2865), (391, 2916), (408, 2979), (412, 3003), (454, 3069), (460, 3102), (462, 3126), (463, 3129), (466, 3138), (472, 3159), (483, 3186), (498, 3231), (502, 3243), (504, 3249), (511, 3270), (519, 3309), (556, 3408), (571, 3444), (611, 3531), (632, 3612), (635, 3618), (656, 3675), (658, 3678),

Gene: B1\_09 Start: 6133, Stop: 7830, Start Num: 62

Candidate Starts for B1\_09:

(Start: 62 @6133 has 371 MA's), (109, 6205), (213, 6403), (225, 6466), (257, 6577), (265, 6589), (276, 6628), (283, 6640), (299, 6697), (303, 6721), (308, 6751), (Start: 313 @6787 has 1 MA's), (316, 6796), (335, 6877), (342, 6904), (379, 7042), (395, 7108), (401, 7129), (408, 7162), (438, 7228), (464, 7303), (471, 7327), (472, 7330), (475, 7336), (479, 7345), (498, 7393), (511, 7432), (512, 7435), (516, 7453), (545, 7549), (569, 7603), (625, 7756), (636, 7786), (656, 7816), (658, 7819),

Gene: BABullseye\_15 Start: 7523, Stop: 9277, Start Num: 63

Candidate Starts for BABullseye\_15:

(Start: 63 @7523 has 231 MA's), (173, 7754), (189, 7805), (203, 7841), (225, 7916), (265, 8039), (276, 8078), (299, 8147), (303, 8171), (304, 8174), (Start: 313 @8237 has 1 MA's), (319, 8261), (344, 8360), (345, 8363), (356, 8390), (357, 8393), (438, 8678), (468, 8765), (471, 8777), (498, 8840), (511, 8879),

(516, 8900), (539, 8984), (545, 8996), (636, 9233), (654, 9260), (656, 9263),

Gene: BK1\_09 Start: 6581, Stop: 8269, Start Num: 62

Candidate Starts for BK1\_09:

(Start: 62 @6581 has 371 MA's), (Start: 179 @6761 has 2 MA's), (213, 6845), (219, 6881), (225, 6908), (265, 7031), (274, 7064), (299, 7139), (Start: 313 @7229 has 1 MA's), (319, 7253), (327, 7280), (337, 7328), (379, 7484), (392, 7544), (477, 7778), (481, 7790), (498, 7832), (505, 7853), (515, 7880), (545, 7988), (594, 8078), (621, 8183),

Gene: BPBiebs31\_12 Start: 7253, Stop: 8941, Start Num: 62

Candidate Starts for BPBiebs31\_12:

(Start: 62 @7253 has 371 MA's), (Start: 179 @7433 has 2 MA's), (213, 7517), (219, 7553), (225, 7580), (253, 7676), (265, 7703), (274, 7736), (299, 7811), (Start: 313 @7901 has 1 MA's), (319, 7925), (327, 7952), (337, 8000), (359, 8069), (379, 8156), (392, 8216), (472, 8441), (477, 8450), (481, 8462), (498, 8504), (505, 8525), (515, 8552), (545, 8660), (594, 8750), (621, 8855),

Gene: Baby16\_11 Start: 6893, Stop: 8590, Start Num: 62

Candidate Starts for Baby16\_11:

(Start: 62 @6893 has 371 MA's), (Start: 81 @6917 has 1 MA's), (Start: 148 @7040 has 2 MA's), (196, 7130), (213, 7163), (238, 7262), (263, 7346), (265, 7349), (276, 7388), (299, 7457), (303, 7481), (Start: 313 @7547 has 1 MA's), (335, 7637), (379, 7802), (401, 7889), (408, 7922), (438, 7988), (463, 8060), (464, 8063), (471, 8087), (494, 8138), (498, 8153), (511, 8192), (516, 8213), (545, 8309), (636, 8546), (656, 8576), (658, 8579),

Gene: BabyBack\_14 Start: 9110, Stop: 10870, Start Num: 63

Candidate Starts for BabyBack\_14:

(Start: 63 @9110 has 231 MA's), (128, 9218), (138, 9239), (169, 9329), (173, 9347), (263, 9629), (265, 9632), (276, 9671), (299, 9740), (Start: 313 @9830 has 1 MA's), (319, 9854), (344, 9953), (356, 9983), (357, 9986), (438, 10271), (464, 10346), (468, 10358), (471, 10370), (502, 10445), (512, 10475), (516, 10493), (539, 10577), (545, 10589), (576, 10658), (636, 10826), (654, 10853), (656, 10856),

Gene: BabyJohn\_10 Start: 6717, Stop: 8414, Start Num: 62

Candidate Starts for BabyJohn\_10:

(Start: 62 @6717 has 371 MA's), (109, 6789), (213, 6987), (225, 7050), (257, 7161), (265, 7173), (276, 7212), (283, 7224), (299, 7281), (303, 7305), (Start: 313 @7371 has 1 MA's), (316, 7380), (335, 7461), (342, 7488), (379, 7626), (395, 7692), (401, 7713), (408, 7746), (438, 7812), (464, 7887), (471, 7911), (472, 7914), (475, 7920), (479, 7929), (498, 7977), (511, 8016), (516, 8037), (545, 8133), (563, 8178), (569, 8187), (625, 8340), (636, 8370), (656, 8400), (658, 8403),

Gene: BabyRay\_11 Start: 6733, Stop: 8430, Start Num: 62

Candidate Starts for BabyRay\_11:

(Start: 62 @6733 has 371 MA's), (Start: 81 @6757 has 1 MA's), (186, 6940), (213, 7003), (225, 7066), (257, 7177), (265, 7189), (276, 7228), (299, 7297), (303, 7321), (Start: 313 @7387 has 1 MA's), (316, 7396), (335, 7477), (379, 7642), (395, 7708), (401, 7729), (408, 7762), (438, 7828), (471, 7927), (472, 7930), (475, 7936), (479, 7945), (494, 7978), (498, 7993), (516, 8053), (545, 8149), (563, 8194), (569, 8203), (576, 8218), (625, 8356), (636, 8386), (656, 8416), (658, 8419),

Gene: Bachita\_32 Start: 9113, Stop: 10861, Start Num: 102

Candidate Starts for Bachita\_32:

(Start: 102 @9113 has 27 MA's), (120, 9143), (187, 9272), (235, 9458), (241, 9497), (249, 9521), (263, 9569), (271, 9596), (280, 9626), (326, 9818), (329, 9836), (370, 9998), (390, 10046), (396, 10061), (453, 10244), (455, 10250), (471, 10334), (501, 10421), (512, 10454), (541, 10568), (558, 10604), (569, 10628), (579, 10643), (640, 10817), (644, 10823),

Gene: Bachome\_12 Start: 8021, Stop: 9784, Start Num: 63

Candidate Starts for Bachome\_12:

(Start: 63 @8021 has 231 MA's), (Start: 80 @8042 has 5 MA's), (128, 8129), (173, 8258), (182, 8282), (203, 8345), (248, 8489), (263, 8540), (265, 8543), (299, 8654), (303, 8678), (304, 8681), (Start: 313 @8744 has 1 MA's), (316, 8753), (319, 8768), (351, 8885), (357, 8900), (368, 8960), (389, 9044), (468, 9272), (471, 9284), (494, 9332), (498, 9347), (511, 9386), (516, 9407), (527, 9446), (539, 9491), (545, 9503), (636, 9740), (654, 9767),

Gene: Backyardigan\_11 Start: 6893, Stop: 8590, Start Num: 62

Candidate Starts for Backyardigan\_11:

(Start: 62 @6893 has 371 MA's), (Start: 81 @6917 has 1 MA's), (213, 7163), (239, 7268), (263, 7346), (265, 7349), (276, 7388), (299, 7457), (303, 7481), (Start: 313 @7547 has 1 MA's), (335, 7637), (379, 7802), (389, 7847), (401, 7889), (408, 7922), (438, 7988), (463, 8060), (464, 8063), (471, 8087), (498, 8153), (511, 8192), (516, 8213), (545, 8309), (635, 8543), (636, 8546), (656, 8576), (658, 8579),

Gene: BaconJack\_13 Start: 7032, Stop: 8720, Start Num: 62

Candidate Starts for BaconJack\_13:

(Start: 62 @7032 has 371 MA's), (213, 7296), (215, 7320), (265, 7482), (274, 7515), (299, 7590), (Start: 313 @7680 has 1 MA's), (319, 7704), (327, 7731), (337, 7779), (359, 7848), (379, 7935), (392, 7995), (472, 8220), (477, 8229), (481, 8241), (498, 8283), (505, 8304), (515, 8331), (545, 8439), (594, 8529), (621, 8634),

Gene: Bactobuster\_13 Start: 9196, Stop: 10974, Start Num: 63

Candidate Starts for Bactobuster\_13:

(Start: 63 @9196 has 231 MA's), (Start: 80 @9214 has 5 MA's), (143, 9325), (Start: 148 @9337 has 2 MA's), (159, 9379), (162, 9391), (165, 9400), (173, 9424), (203, 9511), (263, 9706), (265, 9709), (276, 9748), (299, 9817), (Start: 313 @9907 has 1 MA's), (319, 9931), (344, 10030), (357, 10063), (433, 10363), (464, 10450), (502, 10549), (511, 10576), (516, 10597), (545, 10693), (636, 10930), (654, 10957), (656, 10960),

Gene: Badger\_11 Start: 6882, Stop: 8579, Start Num: 62

Candidate Starts for Badger\_11:

(Start: 62 @6882 has 371 MA's), (Start: 81 @6906 has 1 MA's), (213, 7152), (239, 7257), (263, 7335), (265, 7338), (276, 7377), (299, 7446), (303, 7470), (Start: 313 @7536 has 1 MA's), (335, 7626), (379, 7791), (389, 7836), (401, 7878), (408, 7911), (438, 7977), (463, 8049), (464, 8052), (471, 8076), (498, 8142), (511, 8181), (516, 8202), (545, 8298), (635, 8532), (636, 8535), (656, 8565), (658, 8568),

Gene: Baehexic\_13 Start: 7944, Stop: 9731, Start Num: 63

Candidate Starts for Baehexic\_13:

(35, 7860), (Start: 63 @7944 has 231 MA's), (128, 8052), (138, 8073), (173, 8181), (265, 8466), (299, 8574), (Start: 313 @8664 has 1 MA's), (319, 8688), (351, 8805), (357, 8820), (464, 9207), (511, 9333), (516, 9354), (545, 9450), (636, 9687), (654, 9714), (656, 9717), (658, 9720), (659, 9723),

Gene: Balloona\_3 Start: 903, Stop: 2579, Start Num: 101

Candidate Starts for Balloona\_3:

(Start: 101 @903 has 80 MA's), (Start: 137 @954 has 1 MA's), (147, 975), (177, 1020), (189, 1062), (203, 1098), (224, 1164), (250, 1260), (259, 1296), (265, 1305), (266, 1308), (278, 1356), (283, 1368), (305, 1455), (347, 1635), (362, 1689), (406, 1869), (412, 1902), (455, 1968), (466, 2034), (468, 2040), (498, 2124), (523, 2205), (531, 2238), (558, 2307), (599, 2385), (600, 2388), (623, 2478), (625, 2484), (632, 2505), (635, 2511), (656, 2565), (658, 2568),

Gene: BangNhom\_10 Start: 6861, Stop: 8558, Start Num: 62

Candidate Starts for BangNhom\_10:

(Start: 62 @6861 has 371 MA's), (Start: 81 @6885 has 1 MA's), (Start: 148 @7008 has 2 MA's), (196, 7098), (213, 7131), (263, 7314), (265, 7317), (276, 7356), (299, 7425), (303, 7449), (Start: 313 @7515 has 1 MA's), (335, 7605), (379, 7770), (401, 7857), (408, 7890), (438, 7956), (463, 8028), (464, 8031), (471, 8055), (494, 8106), (498, 8121), (511, 8160), (516, 8181), (545, 8277), (636, 8514), (656, 8544), (658, 8547),

Gene: Bantam\_12 Start: 6089, Stop: 7825, Start Num: 102

Candidate Starts for Bantam\_12:

(Start: 102 @6089 has 27 MA's), (143, 6161), (177, 6218), (221, 6350), (238, 6461), (249, 6497), (277, 6593), (Start: 313 @6737 has 1 MA's), (320, 6764), (329, 6812), (337, 6845), (357, 6902), (391, 7019), (404, 7064), (541, 7535), (599, 7643), (624, 7739),

Gene: Barnstormer\_2 Start: 634, Stop: 2352, Start Num: 83

Candidate Starts for Barnstormer\_2:

(Start: 83 @634 has 13 MA's), (243, 1006), (255, 1057), (265, 1075), (305, 1225), (453, 1720), (545, 2026), (553, 2041), (609, 2206), (627, 2278),

Gene: Barriga\_11 Start: 6857, Stop: 8545, Start Num: 62

Candidate Starts for Barriga\_11:

(Start: 62 @6857 has 371 MA's), (213, 7121), (215, 7145), (265, 7307), (274, 7340), (299, 7415), (Start: 313 @7505 has 1 MA's), (319, 7529), (327, 7556), (337, 7604), (345, 7631), (379, 7760), (382, 7769), (392, 7820), (472, 8045), (477, 8054), (481, 8066), (498, 8108), (505, 8129), (515, 8156), (545, 8264), (594, 8354), (621, 8459),

Gene: BarrowTuph\_10 Start: 6904, Stop: 8592, Start Num: 62

Candidate Starts for BarrowTuph\_10:

(Start: 62 @6904 has 371 MA's), (213, 7168), (215, 7192), (265, 7354), (274, 7387), (299, 7462), (Start: 313 @7552 has 1 MA's), (319, 7576), (337, 7651), (379, 7807), (382, 7816), (391, 7864), (392, 7867), (472, 8092), (477, 8101), (481, 8113), (498, 8155), (505, 8176), (515, 8203), (545, 8311), (594, 8401), (621, 8506),

Gene: BarryBee\_8 Start: 2376, Stop: 4022, Start Num: 59

Candidate Starts for BarryBee\_8:

(Start: 59 @2376 has 85 MA's), (Start: 75 @2394 has 21 MA's), (Start: 150 @2526 has 2 MA's), (189, 2598), (203, 2634), (255, 2814), (266, 2835), (282, 2880), (296, 2922), (307, 2994), (Start: 313 @3018 has 1 MA's), (338, 3117), (342, 3132), (351, 3156), (353, 3162), (405, 3330), (464, 3480), (470, 3501), (494, 3564), (502, 3591), (533, 3699), (545, 3738), (556, 3759), (558, 3765), (563, 3783), (609, 3879), (624, 3939), (660, 4017),

Gene: BartholomewSD\_8 Start: 2347, Stop: 3993, Start Num: 59

Candidate Starts for BartholomewSD\_8:

(Start: 59 @2347 has 85 MA's), (Start: 150 @2497 has 2 MA's), (213, 2617), (Start: 218 @2650 has 2 MA's), (246, 2743), (250, 2758), (255, 2785), (266, 2806), (296, 2893), (307, 2965), (Start: 313 @2989 has 1 MA's), (338, 3088), (347, 3124), (376, 3229), (396, 3265), (405, 3301), (409, 3319), (463, 3448), (464, 3451), (468, 3463), (470, 3472), (472, 3478), (473, 3481), (502, 3562), (511, 3589), (533, 3670), (545, 3709), (556, 3730), (563, 3754), (592, 3796), (599, 3814), (624, 3910), (660, 3988),

Gene: Bartimeaus\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Bartimeaus\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051),

(464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Batiatus\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Batiatus\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Battleship\_15 Start: 6808, Stop: 8505, Start Num: 63

Candidate Starts for Battleship\_15:

(Start: 63 @6808 has 231 MA's), (78, 6826), (175, 6988), (225, 7144), (248, 7213), (265, 7267), (299, 7375), (304, 7402), (Start: 313 @7465 has 1 MA's), (319, 7489), (471, 8005), (498, 8068), (512, 8110), (545, 8224), (599, 8329), (636, 8461), (654, 8488), (656, 8491), (658, 8494),

Gene: Bavilard\_4 Start: 1679, Stop: 3355, Start Num: 101

Candidate Starts for Bavilard\_4:

(Start: 101 @1679 has 80 MA's), (Start: 137 @1730 has 1 MA's), (147, 1751), (177, 1796), (189, 1838), (203, 1874), (250, 2036), (259, 2072), (265, 2081), (266, 2084), (278, 2132), (283, 2144), (305, 2231), (347, 2411), (362, 2465), (406, 2645), (412, 2678), (455, 2744), (466, 2810), (468, 2816), (498, 2900), (523, 2981), (531, 3014), (558, 3083), (599, 3161), (625, 3260), (632, 3281), (635, 3287), (656, 3341), (658, 3344),

Gene: BearBQ\_2 Start: 486, Stop: 2147, Start Num: 101

Candidate Starts for BearBQ\_2:

(34, 324), (39, 357), (41, 360), (56, 411), (60, 420), (Start: 83 @453 has 13 MA's), (Start: 101 @486 has 80 MA's), (Start: 137 @537 has 1 MA's), (143, 549), (154, 576), (175, 597), (201, 666), (203, 681), (216, 720), (224, 747), (225, 756), (226, 759), (238, 792), (245, 825), (246, 828), (250, 843), (259, 879), (261, 882), (265, 888), (270, 903), (271, 906), (282, 942), (299, 996), (307, 1047), (Start: 313 @1071 has 1 MA's), (335, 1158), (352, 1218), (357, 1227), (362, 1263), (372, 1299), (384, 1341), (393, 1395), (401, 1419), (406, 1443), (430, 1503), (436, 1509), (460, 1572), (471, 1626), (479, 1644), (498, 1701), (502, 1713), (511, 1740), (533, 1821), (542, 1851), (559, 1890), (571, 1914), (596, 1950), (599, 1962), (600, 1965), (624, 2058), (625, 2061), (629, 2079), (640, 2100), (649, 2121), (658, 2136),

Gene: BeardedLady\_7 Start: 2667, Stop: 4295, Start Num: 75

Candidate Starts for BeardedLady\_7:

(Start: 59 @2649 has 85 MA's), (Start: 75 @2667 has 21 MA's), (189, 2871), (Start: 218 @2952 has 2 MA's), (255, 3087), (266, 3108), (296, 3195), (307, 3267), (Start: 313 @3291 has 1 MA's), (338, 3390), (357, 3444), (389, 3543), (405, 3603), (468, 3765), (470, 3774), (502, 3864), (511, 3891), (532, 3969), (533, 3972), (545, 4011), (556, 4032), (558, 4038), (563, 4056), (609, 4152), (624, 4212),

Gene: Beaupre\_2 Start: 594, Stop: 2282, Start Num: 90

Candidate Starts for Beaupre\_2:

(Start: 90 @594 has 17 MA's), (201, 795), (243, 939), (265, 1008), (295, 1095), (305, 1149), (312, 1188), (344, 1323), (371, 1425), (453, 1647), (464, 1698), (533, 1917), (545, 1953), (553, 1968), (624, 2193), (627, 2205), (634, 2220), (658, 2271),

Gene: Beauxregard13\_13 Start: 6957, Stop: 8657, Start Num: 65

Candidate Starts for Beauxregard13\_13:

(Start: 65 @6957 has 85 MA's), (94, 7005), (175, 7140), (238, 7332), (265, 7419), (Start: 313 @7617 has 1 MA's), (335, 7707), (356, 7770), (392, 7932), (464, 8130), (471, 8154), (472, 8157), (498, 8220), (505, 8241), (516, 8280), (545, 8376), (569, 8430), (594, 8466), (636, 8613), (656, 8643), (658, 8646),

Gene: BeeGee\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for BeeGee\_2:

(Start: 70 @485 has 45 MA's), (145, 623), (201, 782), (203, 797), (228, 881), (239, 911), (243, 923), (246, 932), (254, 971), (265, 992), (295, 1076), (306, 1148), (316, 1184), (325, 1220), (345, 1310), (350, 1331), (361, 1376), (362, 1382), (371, 1415), (439, 1589), (456, 1616), (472, 1685), (475, 1691), (494, 1757), (497, 1769), (506, 1796), (533, 1907), (539, 1943), (545, 1955), (558, 1979), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627, 2207), (632, 2222), (634, 2225), (656, 2270), (658, 2273),

Gene: Beelzebub\_39 Start: 11419, Stop: 13161, Start Num: 101

Candidate Starts for Beelzebub\_39:

(Start: 101 @11419 has 80 MA's), (175, 11536), (189, 11581), (206, 11647), (208, 11662), (215, 11695), (216, 11698), (221, 11713), (226, 11737), (227, 11740), (238, 11770), (244, 11791), (246, 11809), (249, 11818), (256, 11854), (265, 11869), (278, 11914), (296, 11956), (301, 11995), (305, 12007), (307, 12028), (320, 12079), (327, 12100), (388, 12322), (412, 12427), (414, 12436), (447, 12469), (455, 12490), (456, 12493), (460, 12520), (464, 12550), (468, 12562), (472, 12577), (477, 12586), (479, 12592), (493, 12634), (495, 12643), (500, 12658), (505, 12673), (523, 12733), (531, 12772), (540, 12805), (556, 12835), (557, 12838), (583, 12922), (599, 12976), (604, 12991), (612, 13018), (624, 13072), (654, 13144), (656, 13147),

Gene: Beemo\_13 Start: 8164, Stop: 9930, Start Num: 80

Candidate Starts for Beemo\_13:

(Start: 63 @8143 has 231 MA's), (Start: 75 @8158 has 21 MA's), (Start: 80 @8164 has 5 MA's), (143, 8275), (173, 8374), (225, 8536), (248, 8608), (265, 8662), (276, 8701), (299, 8773), (Start: 313 @8863 has 1 MA's), (319, 8887), (351, 9004), (357, 9019), (382, 9127), (400, 9202), (408, 9238), (423, 9298), (468, 9418), (475, 9439), (494, 9478), (511, 9532), (512, 9535), (516, 9553), (531, 9607), (539, 9637), (545, 9649), (594, 9739), (600, 9757), (636, 9886), (654, 9913), (656, 9916),

Gene: BeesKnees\_12 Start: 7055, Stop: 8743, Start Num: 62

Candidate Starts for BeesKnees\_12:

(Start: 62 @7055 has 371 MA's), (213, 7319), (215, 7343), (265, 7505), (274, 7538), (299, 7613), (Start: 313 @7703 has 1 MA's), (319, 7727), (327, 7754), (337, 7802), (359, 7871), (379, 7958), (382, 7967), (392, 8018), (472, 8243), (477, 8252), (481, 8264), (498, 8306), (505, 8327), (515, 8354), (545, 8462), (594, 8552), (621, 8657),

Gene: Belenaria\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Belenaria\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (440, 4236), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Bellris\_10 Start: 6185, Stop: 7972, Start Num: 63

Candidate Starts for Bellris\_10:

(Start: 63 @6185 has 231 MA's), (143, 6314), (173, 6413), (225, 6575), (234, 6608), (248, 6647), (265, 6701), (276, 6740), (299, 6812), (Start: 313 @6902 has 1 MA's), (319, 6926), (351, 7043), (357, 7058), (382, 7166), (400, 7241), (424, 7340), (444, 7373), (468, 7457), (475, 7478), (494, 7520), (498, 7535), (502, 7547), (511, 7574), (516, 7595), (531, 7649), (545, 7691), (594, 7781), (600, 7799), (615, 7850),

(636, 7928), (654, 7955), (656, 7958),

Gene: BellusTerra\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for BellusTerra\_11:

(20, 6707), (23, 6725), (27, 6755), (Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Benedict\_9 Start: 6015, Stop: 7766, Start Num: 42

Candidate Starts for Benedict\_9:

(Start: 37 @5988 has 19 MA's), (Start: 42 @6015 has 30 MA's), (Start: 66 @6075 has 35 MA's), (73, 6084), (97, 6123), (140, 6198), (143, 6204), (203, 6336), (225, 6411), (226, 6414), (284, 6588), (Start: 313 @6720 has 1 MA's), (324, 6765), (342, 6843), (344, 6849), (385, 7014), (395, 7047), (401, 7068), (464, 7242), (471, 7266), (511, 7368), (516, 7389), (531, 7443), (539, 7473), (545, 7485), (569, 7539), (635, 7719), (636, 7722), (658, 7755), (660, 7761),

Gene: BengiVuitton\_13 Start: 7865, Stop: 9655, Start Num: 63

Candidate Starts for BengiVuitton\_13:

(18, 7691), (Start: 63 @7865 has 231 MA's), (128, 7973), (138, 7994), (169, 8084), (173, 8102), (182, 8126), (265, 8390), (299, 8498), (Start: 313 @8588 has 1 MA's), (319, 8612), (351, 8729), (357, 8744), (433, 9044), (502, 9230), (511, 9257), (545, 9374), (636, 9611), (654, 9638), (656, 9641),

Gene: BennyP\_15 Start: 7533, Stop: 9287, Start Num: 63

Candidate Starts for BennyP\_15:

(Start: 63 @7533 has 231 MA's), (173, 7764), (189, 7815), (203, 7851), (225, 7926), (265, 8049), (276, 8088), (299, 8157), (303, 8181), (304, 8184), (Start: 313 @8247 has 1 MA's), (319, 8271), (344, 8370), (345, 8373), (356, 8400), (357, 8403), (438, 8688), (468, 8775), (471, 8787), (498, 8850), (511, 8889), (516, 8910), (539, 8994), (545, 9006), (636, 9243), (654, 9270), (656, 9273),

Gene: Benvolio\_12 Start: 7541, Stop: 9328, Start Num: 63

Candidate Starts for Benvolio\_12:

(18, 7367), (Start: 63 @7541 has 231 MA's), (128, 7649), (138, 7670), (173, 7778), (203, 7865), (263, 8060), (265, 8063), (299, 8171), (Start: 313 @8261 has 1 MA's), (319, 8285), (351, 8402), (357, 8417), (433, 8717), (502, 8903), (511, 8930), (516, 8951), (545, 9047), (636, 9284), (654, 9311), (656, 9314),

Gene: Bernal13\_3 Start: 724, Stop: 2607, Start Num: 54

Candidate Starts for Bernal13\_3:

(13, 475), (Start: 54 @724 has 7 MA's), (108, 805), (114, 814), (156, 910), (158, 922), (203, 1054), (249, 1201), (250, 1207), (255, 1234), (265, 1252), (286, 1315), (317, 1450), (362, 1651), (386, 1708), (466, 1927), (485, 1978), (490, 2002), (501, 2053), (534, 2182), (540, 2221), (545, 2230), (568, 2281), (580, 2320), (595, 2407), (599, 2419), (623, 2512), (627, 2527), (628, 2530),

Gene: Berrie\_2 Start: 532, Stop: 2238, Start Num: 84

Candidate Starts for Berrie\_2:

(Start: 84 @532 has 42 MA's), (247, 904), (265, 961), (280, 1009), (305, 1099), (344, 1273), (418, 1525), (464, 1648), (523, 1828), (545, 1903), (553, 1918), (599, 2053), (620, 2137), (624, 2149), (627, 2161),

Gene: BiPauneto\_27 Start: 12066, Stop: 13793, Start Num: 99

Candidate Starts for BiPauneto\_27:

(Start: 99 @12066 has 202 MA's), (184, 12216), (197, 12267), (216, 12342), (219, 12351), (236, 12474), (241, 12492), (317, 12774), (323, 12801), (367, 12969), (371, 12981), (405, 13092), (476, 13275), (506, 13389), (511, 13404), (518, 13437), (547, 13512), (611, 13656), (621, 13698), (629, 13728), (651, 13770),

Gene: BiancaTri92\_14 Start: 9218, Stop: 11005, Start Num: 63

Candidate Starts for BiancaTri92\_14:

(Start: 63 @9218 has 231 MA's), (128, 9326), (138, 9347), (173, 9455), (203, 9542), (221, 9596), (263, 9737), (265, 9740), (276, 9779), (299, 9848), (Start: 313 @9938 has 1 MA's), (319, 9962), (351, 10079), (357, 10094), (433, 10394), (464, 10481), (502, 10580), (511, 10607), (516, 10628), (545, 10724), (636, 10961), (654, 10988), (656, 10991),

Gene: BigChungus\_3 Start: 928, Stop: 2604, Start Num: 101

Candidate Starts for BigChungus\_3:

(Start: 101 @928 has 80 MA's), (Start: 137 @979 has 1 MA's), (147, 1000), (177, 1045), (189, 1087), (203, 1123), (224, 1189), (250, 1285), (259, 1321), (265, 1330), (266, 1333), (278, 1381), (283, 1393), (305, 1480), (347, 1660), (362, 1714), (406, 1894), (412, 1927), (455, 1993), (466, 2059), (468, 2065), (498, 2149), (523, 2230), (531, 2263), (558, 2332), (599, 2410), (612, 2452), (625, 2509), (632, 2530), (635, 2536), (656, 2590), (658, 2593),

Gene: BigMau\_13 Start: 7221, Stop: 8909, Start Num: 70

Candidate Starts for BigMau\_13:

(Start: 70 @7221 has 45 MA's), (175, 7392), (Start: 179 @7401 has 2 MA's), (213, 7485), (216, 7512), (219, 7521), (265, 7671), (274, 7704), (299, 7779), (Start: 313 @7869 has 1 MA's), (319, 7893), (327, 7920), (337, 7968), (379, 8124), (392, 8184), (472, 8409), (477, 8418), (481, 8430), (498, 8472), (505, 8493), (515, 8520), (545, 8628), (594, 8718), (621, 8823),

Gene: BigPaolini\_12 Start: 7646, Stop: 9334, Start Num: 62

Candidate Starts for BigPaolini\_12:

(Start: 62 @7646 has 371 MA's), (213, 7910), (215, 7934), (265, 8096), (274, 8129), (299, 8204), (Start: 313 @8294 has 1 MA's), (319, 8318), (327, 8345), (337, 8393), (359, 8462), (379, 8549), (382, 8558), (391, 8606), (392, 8609), (477, 8843), (481, 8855), (498, 8897), (505, 8918), (515, 8945), (545, 9053), (594, 9143), (621, 9248),

Gene: Bigchungi\_11 Start: 6724, Stop: 8412, Start Num: 62

Candidate Starts for Bigchungi\_11:

(Start: 62 @6724 has 371 MA's), (Start: 179 @6904 has 2 MA's), (213, 6988), (219, 7024), (225, 7051), (265, 7174), (299, 7282), (Start: 313 @7372 has 1 MA's), (319, 7396), (327, 7423), (337, 7471), (359, 7540), (379, 7627), (392, 7687), (472, 7912), (477, 7921), (481, 7933), (498, 7975), (505, 7996), (515, 8023), (545, 8131), (594, 8221), (621, 8326),

Gene: Bigflo\_13 Start: 6955, Stop: 8655, Start Num: 65

Candidate Starts for Bigflo\_13:

(Start: 65 @6955 has 85 MA's), (94, 7003), (175, 7138), (238, 7330), (265, 7417), (275, 7453), (Start: 313 @7615 has 1 MA's), (335, 7705), (356, 7768), (392, 7930), (464, 8128), (471, 8152), (472, 8155), (498, 8218), (505, 8239), (516, 8278), (545, 8374), (569, 8428), (594, 8464), (636, 8611), (656, 8641), (658, 8644),

Gene: Bigfoot\_10 Start: 6745, Stop: 8433, Start Num: 62

Candidate Starts for Bigfoot\_10:

(Start: 62 @6745 has 371 MA's), (Start: 179 @6925 has 2 MA's), (213, 7009), (219, 7045), (225, 7072), (265, 7195), (299, 7303), (Start: 313 @7393 has 1 MA's), (319, 7417), (337, 7492), (359, 7561), (379, 7648), (392, 7708), (472, 7933), (477, 7942), (481, 7954), (498, 7996), (505, 8017), (515, 8044), (545,

8152), (594, 8242), (621, 8347),

Gene: BillDoor\_6 Start: 1115, Stop: 2794, Start Num: 101

Candidate Starts for BillDoor\_6:

(Start: 101 @1115 has 80 MA's), (Start: 137 @1166 has 1 MA's), (147, 1187), (Start: 148 @1190 has 2 MA's), (177, 1232), (201, 1298), (Start: 218 @1358 has 2 MA's), (224, 1379), (225, 1388), (250, 1475), (259, 1511), (265, 1520), (278, 1571), (305, 1670), (316, 1724), (326, 1760), (362, 1904), (372, 1940), (383, 1979), (414, 2126), (436, 2150), (466, 2249), (496, 2333), (523, 2420), (556, 2516), (587, 2564), (596, 2588), (611, 2639), (632, 2720), (656, 2780), (658, 2783),

Gene: BillKnuckles\_12 Start: 7662, Stop: 9350, Start Num: 62

Candidate Starts for BillKnuckles\_12:

(Start: 62 @7662 has 371 MA's), (Start: 179 @7842 has 2 MA's), (213, 7926), (219, 7962), (265, 8112), (274, 8145), (299, 8220), (Start: 313 @8310 has 1 MA's), (319, 8334), (327, 8361), (362, 8502), (392, 8625), (464, 8823), (472, 8850), (501, 8922), (505, 8934), (512, 8955), (527, 9012), (545, 9069), (594, 9159), (595, 9162), (624, 9273), (625, 9276), (636, 9306), (656, 9336), (658, 9339),

Gene: Bimmel\_48 Start: 25564, Stop: 26946, Start Num: 198

Candidate Starts for Bimmel\_48:

(Start: 198 @25564 has 1 MA's), (243, 25717), (255, 25768), (257, 25774), (265, 25786), (282, 25837), (305, 25933), (317, 25990), (342, 26101), (371, 26194), (412, 26329), (456, 26398), (468, 26452), (556, 26686), (570, 26722), (643, 26911), (656, 26935),

Gene: Bipolar\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Bipolar\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Bircsak\_11 Start: 7206, Stop: 8894, Start Num: 62

Candidate Starts for Bircsak\_11:

(Start: 62 @7206 has 371 MA's), (213, 7470), (215, 7494), (265, 7656), (274, 7689), (299, 7764), (Start: 313 @7854 has 1 MA's), (319, 7878), (327, 7905), (337, 7953), (379, 8109), (392, 8169), (472, 8394), (477, 8403), (481, 8415), (498, 8457), (505, 8478), (515, 8505), (545, 8613), (594, 8703), (621, 8808),

Gene: Birdsong\_2 Start: 486, Stop: 2147, Start Num: 101

Candidate Starts for Birdsong\_2:

(34, 324), (39, 357), (41, 360), (46, 378), (56, 411), (60, 420), (Start: 83 @453 has 13 MA's), (Start: 101 @486 has 80 MA's), (Start: 137 @537 has 1 MA's), (143, 549), (154, 576), (201, 666), (224, 747), (225, 756), (226, 759), (238, 792), (250, 843), (259, 879), (261, 882), (265, 888), (270, 903), (271, 906), (276, 924), (282, 942), (299, 996), (307, 1047), (Start: 313 @1071 has 1 MA's), (335, 1158), (352, 1218), (357, 1227), (362, 1263), (372, 1299), (383, 1338), (384, 1341), (388, 1371), (430, 1503), (436, 1509), (460, 1572), (471, 1626), (479, 1644), (498, 1701), (502, 1713), (511, 1740), (533, 1821), (542, 1851), (559, 1890), (571, 1914), (596, 1950), (599, 1962), (600, 1965), (624, 2058), (625, 2061), (629, 2079), (640, 2100), (649, 2121), (658, 2136),

Gene: Biskit\_5 Start: 1110, Stop: 2789, Start Num: 101

Candidate Starts for Biskit\_5:

(Start: 101 @1110 has 80 MA's), (Start: 137 @1161 has 1 MA's), (147, 1182), (174, 1221), (203, 1308), (Start: 218 @1353 has 2 MA's), (224, 1374), (225, 1383), (246, 1455), (259, 1506), (265, 1515), (278, 1566), (305, 1665), (307, 1686), (316, 1719), (326, 1755), (362, 1899), (372, 1935), (383, 1974), (388, 2007), (401, 2055), (412, 2112), (436, 2145), (455, 2178), (466, 2244), (468, 2250), (493, 2316), (496, 2328), (523, 2415), (556, 2511), (587, 2559), (611, 2634), (632, 2715), (656, 2775), (658, 2778),

Gene: Blackbeetle\_35 Start: 10438, Stop: 12180, Start Num: 101

Candidate Starts for Blackbeetle\_35:

(Start: 101 @10438 has 80 MA's), (175, 10555), (189, 10600), (206, 10666), (208, 10681), (215, 10714), (216, 10717), (221, 10732), (226, 10756), (227, 10759), (238, 10789), (244, 10810), (246, 10828), (249, 10837), (256, 10873), (265, 10888), (278, 10933), (296, 10975), (301, 11014), (305, 11026), (307, 11047), (320, 11098), (327, 11119), (388, 11341), (412, 11446), (414, 11455), (447, 11488), (455, 11509), (456, 11512), (460, 11539), (464, 11569), (468, 11581), (472, 11596), (477, 11605), (479, 11611), (493, 11653), (495, 11662), (500, 11677), (505, 11692), (523, 11752), (531, 11791), (540, 11824), (556, 11854), (557, 11857), (583, 11941), (599, 11995), (604, 12010), (612, 12037), (624, 12091), (654, 12163), (656, 12166),

Gene: Blackflame\_11 Start: 6733, Stop: 8421, Start Num: 62

Candidate Starts for Blackflame\_11:

(Start: 62 @6733 has 371 MA's), (Start: 179 @6913 has 2 MA's), (213, 6997), (219, 7033), (265, 7183), (299, 7291), (Start: 313 @7381 has 1 MA's), (319, 7405), (337, 7480), (359, 7549), (379, 7636), (392, 7696), (477, 7930), (481, 7942), (498, 7984), (505, 8005), (515, 8032), (545, 8140), (594, 8230), (621, 8335),

Gene: Blackmoor\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Blackmoor\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: BlessJoy\_15 Start: 7514, Stop: 9268, Start Num: 63

Candidate Starts for BlessJoy\_15:

(Start: 63 @7514 has 231 MA's), (143, 7646), (173, 7745), (182, 7769), (189, 7796), (203, 7832), (225, 7907), (265, 8030), (269, 8045), (276, 8069), (299, 8138), (303, 8162), (304, 8165), (Start: 313 @8228 has 1 MA's), (319, 8252), (356, 8381), (357, 8384), (383, 8495), (432, 8657), (464, 8744), (468, 8756), (471, 8768), (494, 8816), (498, 8831), (511, 8870), (516, 8891), (539, 8975), (545, 8987), (636, 9224), (654, 9251), (656, 9254),

Gene: Blesser\_11 Start: 7310, Stop: 8998, Start Num: 62

Candidate Starts for Blesser\_11:

(Start: 62 @7310 has 371 MA's), (189, 7526), (213, 7574), (215, 7598), (265, 7760), (299, 7868), (Start: 313 @7958 has 1 MA's), (319, 7982), (327, 8009), (337, 8057), (359, 8126), (379, 8213), (382, 8222), (391, 8270), (392, 8273), (477, 8507), (481, 8519), (498, 8561), (505, 8582), (515, 8609), (545, 8717), (594, 8807), (621, 8912),

Gene: Blexus\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Blexus\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (282, 1070), (296,

1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (364, 1403), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Blinn1\_15 Start: 7566, Stop: 9320, Start Num: 63

Candidate Starts for Blinn1\_15:

(Start: 63 @7566 has 231 MA's), (173, 7797), (189, 7848), (203, 7884), (225, 7959), (265, 8082), (276, 8121), (299, 8190), (303, 8214), (304, 8217), (Start: 313 @8280 has 1 MA's), (319, 8304), (344, 8403), (345, 8406), (356, 8433), (357, 8436), (438, 8721), (468, 8808), (471, 8820), (498, 8883), (511, 8922), (516, 8943), (539, 9027), (545, 9039), (636, 9276), (654, 9303), (656, 9306),

Gene: Blondies\_5 Start: 1111, Stop: 2790, Start Num: 101

Candidate Starts for Blondies\_5:

(Start: 101 @1111 has 80 MA's), (Start: 137 @1162 has 1 MA's), (147, 1183), (174, 1222), (203, 1309), (Start: 218 @1354 has 2 MA's), (224, 1375), (225, 1384), (246, 1456), (259, 1507), (265, 1516), (278, 1567), (305, 1666), (307, 1687), (316, 1720), (326, 1756), (362, 1900), (372, 1936), (383, 1975), (388, 2008), (401, 2056), (412, 2113), (436, 2146), (455, 2179), (466, 2245), (468, 2251), (493, 2317), (496, 2329), (498, 2335), (523, 2416), (556, 2512), (587, 2560), (611, 2635), (632, 2716), (656, 2776), (658, 2779),

Gene: BluSpix\_11 Start: 7005, Stop: 8693, Start Num: 62

Candidate Starts for BluSpix\_11:

(Start: 62 @7005 has 371 MA's), (Start: 179 @7185 has 2 MA's), (213, 7269), (215, 7293), (265, 7455), (274, 7488), (299, 7563), (Start: 313 @7653 has 1 MA's), (319, 7677), (327, 7704), (337, 7752), (379, 7908), (392, 7968), (472, 8193), (477, 8202), (481, 8214), (498, 8256), (505, 8277), (515, 8304), (545, 8412), (594, 8502), (621, 8607),

Gene: Blue\_11 Start: 7112, Stop: 8800, Start Num: 62

Candidate Starts for Blue\_11:

(Start: 62 @7112 has 371 MA's), (Start: 83 @7133 has 13 MA's), (Start: 179 @7292 has 2 MA's), (213, 7376), (219, 7412), (225, 7439), (265, 7562), (274, 7595), (299, 7670), (Start: 313 @7760 has 1 MA's), (319, 7784), (327, 7811), (337, 7859), (359, 7928), (375, 8003), (379, 8015), (392, 8075), (472, 8300), (477, 8309), (481, 8321), (498, 8363), (505, 8384), (515, 8411), (545, 8519), (594, 8609), (621, 8714),

Gene: Blue7\_15 Start: 7507, Stop: 9261, Start Num: 63

Candidate Starts for Blue7\_15:

(Start: 63 @7507 has 231 MA's), (143, 7639), (173, 7738), (182, 7762), (189, 7789), (203, 7825), (225, 7900), (265, 8023), (269, 8038), (276, 8062), (299, 8131), (303, 8155), (304, 8158), (Start: 313 @8221 has 1 MA's), (319, 8245), (356, 8374), (357, 8377), (383, 8488), (432, 8650), (464, 8737), (468, 8749), (471, 8761), (494, 8809), (498, 8824), (511, 8863), (516, 8884), (539, 8968), (545, 8980), (636, 9217), (654, 9244), (656, 9247),

Gene: BlueBird\_12 Start: 6496, Stop: 8193, Start Num: 62

Candidate Starts for BlueBird\_12:

(Start: 62 @6496 has 371 MA's), (Start: 81 @6520 has 1 MA's), (109, 6568), (213, 6766), (225, 6829), (257, 6940), (265, 6952), (276, 6991), (283, 7003), (299, 7060), (303, 7084), (Start: 313 @7150 has 1 MA's), (316, 7159), (335, 7240), (342, 7267), (379, 7405), (401, 7492), (408, 7525), (438, 7591), (464, 7666), (471, 7690), (472, 7693), (475, 7699), (479, 7708), (494, 7741), (498, 7756), (516, 7816), (545, 7912), (563, 7957), (569, 7966), (625, 8119), (636, 8149), (656, 8179), (658, 8182),

Gene: BlueCrab\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for BlueCrab\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Bluefalcon\_8 Start: 6239, Stop: 8017, Start Num: 37

Candidate Starts for Bluefalcon\_8:

(Start: 37 @6239 has 19 MA's), (Start: 42 @6266 has 30 MA's), (73, 6335), (140, 6449), (143, 6455), (203, 6587), (225, 6662), (226, 6665), (284, 6839), (291, 6863), (Start: 313 @6971 has 1 MA's), (324, 7016), (342, 7094), (344, 7100), (345, 7103), (385, 7265), (386, 7271), (395, 7298), (401, 7319), (464, 7493), (471, 7517), (472, 7520), (475, 7526), (498, 7580), (502, 7592), (511, 7619), (516, 7640), (531, 7694), (539, 7724), (545, 7736), (636, 7973), (658, 8006), (660, 8012),

Gene: Bob3\_10 Start: 6561, Stop: 8249, Start Num: 62

Candidate Starts for Bob3\_10:

(Start: 62 @6561 has 371 MA's), (213, 6825), (215, 6849), (265, 7011), (274, 7044), (299, 7119), (Start: 313 @7209 has 1 MA's), (319, 7233), (327, 7260), (337, 7308), (379, 7464), (392, 7524), (472, 7749), (477, 7758), (481, 7770), (498, 7812), (505, 7833), (515, 7860), (545, 7968), (594, 8058), (621, 8163),

Gene: BobSwaget\_15 Start: 9121, Stop: 10902, Start Num: 63

Candidate Starts for BobSwaget\_15:

(30, 9001), (49, 9094), (Start: 63 @9121 has 231 MA's), (143, 9253), (165, 9328), (173, 9352), (189, 9403), (263, 9634), (265, 9637), (276, 9676), (299, 9745), (Start: 313 @9835 has 1 MA's), (319, 9859), (344, 9958), (356, 9988), (357, 9991), (494, 10450), (498, 10465), (502, 10477), (511, 10504), (516, 10525), (545, 10621), (636, 10858), (654, 10885), (656, 10888),

Gene: BobaPhett\_2 Start: 653, Stop: 2209, Start Num: 144

Candidate Starts for BobaPhett\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: BobbyDazzler\_8 Start: 3413, Stop: 4909, Start Num: 179

Candidate Starts for BobbyDazzler\_8:

(Start: 66 @3227 has 35 MA's), (Start: 179 @3413 has 2 MA's), (203, 3485), (213, 3497), (215, 3521), (219, 3533), (269, 3701), (291, 3761), (303, 3818), (304, 3821), (Start: 313 @3869 has 1 MA's), (377, 4124), (383, 4142), (395, 4196), (456, 4340), (464, 4382), (475, 4415), (502, 4484), (545, 4628), (563, 4673), (599, 4733), (624, 4832), (636, 4865), (654, 4892), (656, 4895), (658, 4898),

Gene: BodEinwohner17\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for BodEinwohner17\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: BogosyJay\_13 Start: 7900, Stop: 9687, Start Num: 63

Candidate Starts for BogosyJay\_13:

(Start: 63 @7900 has 231 MA's), (Start: 75 @7915 has 21 MA's), (143, 8032), (173, 8131), (225, 8293), (248, 8365), (265, 8419), (276, 8458), (299, 8530), (Start: 313 @8620 has 1 MA's), (319, 8644), (351, 8761), (357, 8776), (382, 8884), (400, 8959), (423, 9055), (444, 9091), (468, 9175), (475, 9196), (494, 9235), (511, 9289), (516, 9310), (539, 9394), (545, 9406), (595, 9499), (600, 9514), (636, 9643), (654, 9670), (656, 9673),

Gene: Bombshell\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Bombshell\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Bonamassa\_9 Start: 6188, Stop: 7939, Start Num: 42

Candidate Starts for Bonamassa\_9:

(Start: 37 @6161 has 19 MA's), (Start: 42 @6188 has 30 MA's), (73, 6257), (140, 6371), (143, 6377), (203, 6509), (225, 6584), (226, 6587), (238, 6620), (248, 6653), (284, 6761), (291, 6785), (299, 6818), (Start: 313 @6893 has 1 MA's), (324, 6938), (342, 7016), (344, 7022), (395, 7220), (401, 7241), (464, 7415), (471, 7439), (472, 7442), (498, 7502), (502, 7514), (511, 7541), (516, 7562), (539, 7646), (545, 7658), (636, 7895), (658, 7928), (660, 7934),

Gene: Bonanza\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Bonanza\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (269, 3630), (291, 3690), (303, 3747), (304, 3750), (Start: 313 @3798 has 1 MA's), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Bones\_11 Start: 6756, Stop: 8444, Start Num: 62

Candidate Starts for Bones\_11:

(Start: 62 @6756 has 371 MA's), (213, 7020), (215, 7044), (265, 7206), (274, 7239), (299, 7314), (Start: 313 @7404 has 1 MA's), (319, 7428), (337, 7503), (379, 7659), (382, 7668), (391, 7716), (392, 7719), (472, 7944), (477, 7953), (481, 7965), (498, 8007), (505, 8028), (515, 8055), (545, 8163), (594, 8253), (621, 8358),

Gene: Bonum\_27 Start: 12526, Stop: 14256, Start Num: 99

Candidate Starts for Bonum\_27:

(Start: 99 @12526 has 202 MA's), (Start: 102 @12532 has 27 MA's), (184, 12676), (197, 12727), (200, 12733), (207, 12760), (212, 12772), (216, 12802), (223, 12826), (225, 12844), (317, 13237), (323, 13264), (367, 13432), (371, 13444), (380, 13477), (405, 13555), (488, 13771), (492, 13801), (506, 13852), (518, 13900), (547, 13975), (552, 13987), (567, 14023), (621, 14161), (629, 14191),

Gene: Boohoo\_14 Start: 6686, Stop: 8383, Start Num: 63

Candidate Starts for Boohoo\_14:

(Start: 63 @6686 has 231 MA's), (78, 6704), (175, 6866), (225, 7022), (248, 7091), (265, 7145), (299, 7253), (304, 7280), (Start: 313 @7343 has 1 MA's), (319, 7367), (471, 7883), (498, 7946), (512, 7988), (545, 8102), (599, 8207), (636, 8339), (654, 8366), (656, 8369), (658, 8372),

Gene: Bovely\_6 Start: 2408, Stop: 4054, Start Num: 59

Candidate Starts for Bovely\_6:

(Start: 59 @2408 has 85 MA's), (Start: 75 @2426 has 21 MA's), (189, 2630), (Start: 218 @2711 has 2 MA's), (255, 2846), (266, 2867), (296, 2954), (307, 3026), (Start: 313 @3050 has 1 MA's), (338, 3149), (357, 3203), (389, 3302), (405, 3362), (468, 3524), (470, 3533), (502, 3623), (511, 3650), (532, 3728), (533, 3731), (545, 3770), (556, 3791), (558, 3797), (563, 3815), (609, 3911), (624, 3971),

Gene: Bowden\_7 Start: 2249, Stop: 3895, Start Num: 59

Candidate Starts for Bowden\_7:

(Start: 59 @2249 has 85 MA's), (213, 2519), (215, 2543), (Start: 218 @2552 has 2 MA's), (246, 2645), (250, 2660), (255, 2687), (266, 2708), (296, 2795), (307, 2867), (Start: 313 @2891 has 1 MA's), (338, 2990), (347, 3026), (376, 3131), (396, 3167), (405, 3203), (409, 3221), (463, 3350), (464, 3353), (468, 3365), (470, 3374), (473, 3383), (502, 3464), (511, 3491), (517, 3518), (533, 3572), (545, 3611), (556, 3632), (563, 3656), (576, 3680), (599, 3716), (624, 3812), (660, 3890),

Gene: Bowtie\_12 Start: 8024, Stop: 9787, Start Num: 63

Candidate Starts for Bowtie\_12:

(Start: 63 @8024 has 231 MA's), (Start: 80 @8045 has 5 MA's), (128, 8132), (173, 8261), (182, 8285), (203, 8348), (248, 8492), (263, 8543), (265, 8546), (299, 8657), (303, 8681), (304, 8684), (Start: 313 @8747 has 1 MA's), (316, 8756), (319, 8771), (351, 8888), (357, 8903), (368, 8963), (389, 9047), (468, 9275), (471, 9287), (494, 9335), (498, 9350), (511, 9389), (516, 9410), (527, 9449), (539, 9494), (545, 9506), (636, 9743), (654, 9770),

Gene: Bradissa\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for Bradissa\_2:

(Start: 70 @485 has 45 MA's), (145, 623), (155, 650), (201, 782), (203, 797), (228, 881), (239, 911), (243, 923), (245, 929), (246, 932), (254, 971), (265, 992), (285, 1052), (295, 1076), (306, 1148), (Start: 313 @1175 has 1 MA's), (316, 1184), (325, 1220), (345, 1310), (350, 1331), (362, 1382), (371, 1415), (401, 1490), (439, 1589), (456, 1616), (472, 1685), (475, 1691), (494, 1757), (497, 1769), (506, 1796), (533, 1907), (539, 1943), (545, 1955), (549, 1961), (558, 1979), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627, 2207), (632, 2222), (656, 2270), (658, 2273),

Gene: Bradman\_11 Start: 6379, Stop: 8160, Start Num: 63

Candidate Starts for Bradman\_11:

(Start: 63 @6379 has 231 MA's), (Start: 148 @6523 has 2 MA's), (160, 6568), (173, 6610), (182, 6634), (203, 6697), (221, 6751), (263, 6892), (265, 6895), (276, 6934), (299, 7003), (Start: 313 @7093 has 1 MA's), (319, 7117), (356, 7246), (357, 7249), (421, 7522), (511, 7762), (516, 7783), (539, 7867), (545, 7879), (636, 8116), (654, 8143), (656, 8146), (658, 8149),

Gene: Bradshaw\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Bradshaw\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (463, 4308), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Brataylor\_7 Start: 2379, Stop: 4025, Start Num: 59

Candidate Starts for Brataylor\_7:

(Start: 59 @2379 has 85 MA's), (Start: 75 @2397 has 21 MA's), (189, 2601), (203, 2637), (255, 2817), (266, 2838), (282, 2883), (296, 2925), (307, 2997), (Start: 313 @3021 has 1 MA's), (338, 3120), (342, 3135), (351, 3159), (353, 3165), (405, 3333), (464, 3483), (470, 3504), (475, 3516), (502, 3594), (533, 3702), (545, 3741), (556, 3762), (558, 3768), (563, 3786), (624, 3942),

Gene: Braxoaddie\_28 Start: 14026, Stop: 15699, Start Num: 99

Candidate Starts for Braxoaddie\_28:

(Start: 99 @14026 has 202 MA's), (184, 14170), (197, 14221), (212, 14266), (241, 14395), (248, 14416), (252, 14440), (262, 14467), (272, 14500), (293, 14566), (302, 14614), (317, 14677), (323, 14704), (367, 14872), (371, 14884), (405, 14995), (416, 15046), (465, 15145), (492, 15244), (494, 15256), (502, 15283), (506, 15295), (511, 15310), (531, 15385), (547, 15418), (560, 15451), (605, 15535), (609, 15556), (621, 15604), (653, 15679),

Gene: BreSam8\_13 Start: 6950, Stop: 8650, Start Num: 65

Candidate Starts for BreSam8\_13:

(Start: 65 @6950 has 85 MA's), (94, 6998), (175, 7133), (238, 7325), (265, 7412), (Start: 313 @7610 has 1 MA's), (335, 7700), (356, 7763), (392, 7925), (464, 8123), (471, 8147), (472, 8150), (498, 8213), (505, 8234), (516, 8273), (545, 8369), (569, 8423), (594, 8459), (636, 8606), (656, 8636), (658, 8639),

Gene: BritBrat\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for BritBrat\_2:

(Start: 70 @485 has 45 MA's), (145, 623), (155, 650), (201, 782), (203, 797), (228, 881), (239, 911), (243, 923), (246, 932), (254, 971), (265, 992), (285, 1052), (295, 1076), (306, 1148), (316, 1184), (325, 1220), (345, 1310), (350, 1331), (361, 1376), (362, 1382), (366, 1400), (371, 1415), (439, 1589), (456, 1616), (472, 1685), (475, 1691), (494, 1757), (497, 1769), (506, 1796), (533, 1907), (539, 1943), (545, 1955), (549, 1961), (558, 1979), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627, 2207), (632, 2222), (656, 2270), (658, 2273),

Gene: Briton15\_13 Start: 7067, Stop: 8755, Start Num: 62

Candidate Starts for Briton15\_13:

(Start: 62 @7067 has 371 MA's), (213, 7331), (215, 7355), (265, 7517), (274, 7550), (299, 7625), (Start: 313 @7715 has 1 MA's), (319, 7739), (337, 7814), (359, 7883), (379, 7970), (382, 7979), (392, 8030), (477, 8264), (481, 8276), (498, 8318), (505, 8339), (515, 8366), (545, 8474), (594, 8564), (621, 8669),

Gene: BroPlease\_7 Start: 2717, Stop: 4060, Start Num: 218

Candidate Starts for BroPlease\_7:

(Start: 218 @2717 has 2 MA's), (221, 2726), (224, 2738), (246, 2810), (248, 2816), (250, 2825), (255, 2852), (266, 2873), (296, 2960), (304, 3008), (307, 3032), (Start: 313 @3056 has 1 MA's), (335, 3143), (338, 3155), (357, 3209), (396, 3332), (405, 3368), (456, 3476), (470, 3539), (475, 3551), (494, 3602), (502, 3629), (511, 3656), (533, 3737), (545, 3776), (558, 3803), (563, 3821), (618, 3956), (624, 3977), (660, 4055),

Gene: Brocalys\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Brocalys\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (358, 1346), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543,

1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Broseidon\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Broseidon\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Bruiser\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Bruiser\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Bruns\_10 Start: 6924, Stop: 8612, Start Num: 70

Candidate Starts for Bruns\_10:

(Start: 70 @6924 has 45 MA's), (Start: 179 @7104 has 2 MA's), (213, 7188), (216, 7215), (219, 7224), (265, 7374), (274, 7407), (299, 7482), (Start: 313 @7572 has 1 MA's), (319, 7596), (327, 7623), (337, 7671), (379, 7827), (392, 7887), (477, 8121), (481, 8133), (498, 8175), (505, 8196), (515, 8223), (545, 8331), (594, 8421), (621, 8526),

Gene: BrutonGaster\_18 Start: 5409, Stop: 7157, Start Num: 102

Candidate Starts for BrutonGaster\_18:

(Start: 102 @5409 has 27 MA's), (120, 5439), (173, 5529), (187, 5568), (241, 5793), (246, 5808), (249, 5817), (263, 5865), (271, 5892), (326, 6114), (329, 6132), (366, 6282), (390, 6342), (391, 6345), (396, 6357), (464, 6606), (466, 6612), (501, 6717), (502, 6720), (511, 6747), (523, 6789), (541, 6864), (558, 6900), (569, 6924), (640, 7113), (644, 7119),

Gene: BryanRecycles\_7 Start: 2562, Stop: 4208, Start Num: 59

Candidate Starts for BryanRecycles\_7:

(Start: 59 @2562 has 85 MA's), (Start: 75 @2580 has 21 MA's), (189, 2784), (Start: 218 @2865 has 2 MA's), (255, 3000), (266, 3021), (282, 3066), (296, 3108), (307, 3180), (Start: 313 @3204 has 1 MA's), (335, 3291), (338, 3303), (357, 3357), (389, 3456), (405, 3516), (468, 3678), (470, 3687), (502, 3777), (513, 3810), (532, 3882), (533, 3885), (545, 3924), (556, 3945), (558, 3951), (563, 3969), (609, 4065), (624, 4125),

Gene: Bryce\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Bryce\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (269, 3630), (291, 3690), (303, 3747), (304, 3750), (Start: 313 @3798 has 1 MA's), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Bubble\_4 Start: 1113, Stop: 2792, Start Num: 101

Candidate Starts for Bubble\_4:

(Start: 101 @1113 has 80 MA's), (Start: 137 @1164 has 1 MA's), (147, 1185), (177, 1230), (203, 1311), (224, 1377), (225, 1386), (246, 1458), (250, 1473), (259, 1509), (265, 1518), (278, 1569), (305, 1668), (316, 1722), (326, 1758), (362, 1902), (372, 1938), (383, 1977), (388, 2010), (401, 2058), (408, 2091),

(412, 2115), (436, 2148), (455, 2181), (463, 2238), (466, 2247), (496, 2331), (523, 2418), (556, 2514), (596, 2586), (599, 2598), (632, 2718), (656, 2778), (658, 2781),

Gene: BubbleTrouble\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for BubbleTrouble\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Bubbles123\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Bubbles123\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Bud\_12 Start: 8030, Stop: 9793, Start Num: 63

Candidate Starts for Bud\_12:

(Start: 63 @8030 has 231 MA's), (Start: 80 @8051 has 5 MA's), (128, 8138), (173, 8267), (182, 8291), (203, 8354), (248, 8498), (263, 8549), (265, 8552), (299, 8663), (303, 8687), (304, 8690), (Start: 313 @8753 has 1 MA's), (316, 8762), (319, 8777), (351, 8894), (357, 8909), (368, 8969), (389, 9053), (468, 9281), (471, 9293), (494, 9341), (498, 9356), (511, 9395), (516, 9416), (527, 9455), (539, 9500), (545, 9512), (636, 9749), (654, 9776),

Gene: Bugatti\_11 Start: 6496, Stop: 8193, Start Num: 62

Candidate Starts for Bugatti\_11:

(Start: 62 @6496 has 371 MA's), (Start: 81 @6520 has 1 MA's), (109, 6568), (213, 6766), (225, 6829), (257, 6940), (265, 6952), (276, 6991), (283, 7003), (299, 7060), (303, 7084), (Start: 313 @7150 has 1 MA's), (316, 7159), (335, 7240), (342, 7267), (379, 7405), (401, 7492), (408, 7525), (438, 7591), (464, 7666), (471, 7690), (472, 7693), (475, 7699), (479, 7708), (494, 7741), (498, 7756), (516, 7816), (545, 7912), (563, 7957), (569, 7966), (625, 8119), (636, 8149), (656, 8179), (658, 8182),

Gene: Buggaboo\_25 Start: 12984, Stop: 14714, Start Num: 99

Candidate Starts for Buggaboo\_25:

(Start: 99 @12984 has 202 MA's), (Start: 102 @12990 has 27 MA's), (184, 13134), (197, 13185), (200, 13191), (207, 13218), (212, 13230), (216, 13260), (223, 13284), (225, 13302), (317, 13695), (323, 13722), (367, 13890), (371, 13902), (380, 13935), (405, 14013), (488, 14229), (492, 14259), (506, 14310), (518, 14358), (547, 14433), (552, 14445), (567, 14481), (621, 14619), (629, 14649),

Gene: Bugsy\_14 Start: 7887, Stop: 9674, Start Num: 63

Candidate Starts for Bugsy\_14:

(Start: 63 @7887 has 231 MA's), (128, 7995), (138, 8016), (160, 8082), (161, 8088), (173, 8124), (182, 8148), (203, 8211), (263, 8406), (265, 8409), (299, 8517), (Start: 313 @8607 has 1 MA's), (319, 8631), (337, 8706), (351, 8748), (357, 8763), (433, 9063), (502, 9249), (511, 9276), (516, 9297), (545, 9393), (636, 9630), (656, 9660),

Gene: Bumblebee11\_11 Start: 6893, Stop: 8590, Start Num: 62

Candidate Starts for Bumblebee11\_11:

(Start: 62 @6893 has 371 MA's), (Start: 81 @6917 has 1 MA's), (213, 7163), (239, 7268), (263, 7346), (265, 7349), (276, 7388), (299, 7457), (303, 7481), (Start: 313 @7547 has 1 MA's), (335, 7637), (379, 7802), (389, 7847), (401, 7889), (408, 7922), (438, 7988), (463, 8060), (464, 8063), (471, 8087), (498, 8153), (511, 8192), (516, 8213), (545, 8309), (635, 8543), (636, 8546), (656, 8576), (658, 8579),

Gene: Burger\_10 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Burger\_10:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Burnsey\_4 Start: 1113, Stop: 2792, Start Num: 101

Candidate Starts for Burnsey\_4:

(Start: 101 @1113 has 80 MA's), (Start: 137 @1164 has 1 MA's), (147, 1185), (Start: 148 @1188 has 2 MA's), (177, 1230), (203, 1311), (224, 1377), (225, 1386), (246, 1458), (250, 1473), (259, 1509), (265, 1518), (278, 1569), (305, 1668), (316, 1722), (326, 1758), (362, 1902), (372, 1938), (383, 1977), (388, 2010), (401, 2058), (408, 2091), (412, 2115), (436, 2148), (455, 2181), (463, 2238), (466, 2247), (496, 2331), (505, 2358), (523, 2418), (556, 2514), (596, 2586), (599, 2598), (632, 2718), (656, 2778), (658, 2781),

Gene: Burton\_12 Start: 7124, Stop: 8812, Start Num: 70

Candidate Starts for Burton\_12:

(Start: 70 @7124 has 45 MA's), (175, 7295), (Start: 179 @7304 has 2 MA's), (213, 7388), (216, 7415), (219, 7424), (265, 7574), (274, 7607), (299, 7682), (Start: 313 @7772 has 1 MA's), (319, 7796), (327, 7823), (337, 7871), (379, 8027), (392, 8087), (472, 8312), (477, 8321), (481, 8333), (498, 8375), (505, 8396), (515, 8423), (545, 8531), (594, 8621), (621, 8726),

Gene: Burwell21\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Burwell21\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 134 @628 has 1 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (223, 850), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (267, 997), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (450, 1597), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Button\_5 Start: 1178, Stop: 2878, Start Num: 99

Candidate Starts for Button\_5:

(Start: 99 @1178 has 202 MA's), (Start: 137 @1232 has 1 MA's), (147, 1253), (157, 1280), (192, 1355), (203, 1391), (226, 1469), (250, 1553), (252, 1568), (265, 1598), (278, 1649), (305, 1748), (326, 1838), (347, 1928), (362, 1982), (383, 2057), (408, 2171), (412, 2195), (455, 2261), (463, 2318), (464, 2321), (466, 2327), (468, 2333), (493, 2399), (498, 2417), (523, 2498), (524, 2504), (533, 2537), (556, 2594), (587, 2642), (623, 2771), (624, 2774), (656, 2864), (658, 2867),

Gene: Buttons\_12 Start: 7194, Stop: 8882, Start Num: 62

Candidate Starts for Buttons\_12:

(Start: 62 @7194 has 371 MA's), (Start: 179 @7374 has 2 MA's), (213, 7458), (219, 7494), (225, 7521), (265, 7644), (274, 7677), (299, 7752), (Start: 313 @7842 has 1 MA's), (319, 7866), (327, 7893), (337,

7941), (379, 8097), (392, 8157), (472, 8382), (477, 8391), (481, 8403), (498, 8445), (505, 8466), (515, 8493), (545, 8601), (594, 8691), (621, 8796),

Gene: Buttrmlkdreams\_4 Start: 1111, Stop: 2790, Start Num: 101

Candidate Starts for Buttrmlkdreams\_4:

(Start: 101 @1111 has 80 MA's), (Start: 137 @1162 has 1 MA's), (147, 1183), (174, 1222), (203, 1309), (Start: 218 @1354 has 2 MA's), (224, 1375), (225, 1384), (246, 1456), (259, 1507), (265, 1516), (278, 1567), (305, 1666), (307, 1687), (316, 1720), (326, 1756), (362, 1900), (372, 1936), (383, 1975), (388, 2008), (401, 2056), (412, 2113), (436, 2146), (455, 2179), (466, 2245), (468, 2251), (493, 2317), (496, 2329), (523, 2416), (556, 2512), (587, 2560), (611, 2635), (632, 2716), (656, 2776), (658, 2779),

Gene: BuzzBuzz\_12 Start: 7041, Stop: 8741, Start Num: 65

Candidate Starts for BuzzBuzz\_12:

(Start: 65 @7041 has 85 MA's), (94, 7089), (175, 7224), (238, 7416), (265, 7503), (Start: 313 @7701 has 1 MA's), (335, 7791), (356, 7854), (392, 8016), (464, 8214), (471, 8238), (472, 8241), (498, 8304), (505, 8325), (516, 8364), (545, 8460), (569, 8514), (594, 8550), (636, 8697), (656, 8727), (658, 8730),

Gene: Bxb1\_10 Start: 7031, Stop: 8719, Start Num: 62

Candidate Starts for Bxb1\_10:

(Start: 62 @7031 has 371 MA's), (213, 7295), (215, 7319), (265, 7481), (274, 7514), (299, 7589), (Start: 313 @7679 has 1 MA's), (319, 7703), (362, 7871), (391, 7991), (392, 7994), (464, 8192), (472, 8219), (501, 8291), (505, 8303), (512, 8324), (527, 8381), (545, 8438), (594, 8528), (595, 8531), (624, 8642), (625, 8645), (636, 8675), (656, 8705), (658, 8708),

Gene: Bxz2\_13 Start: 7051, Stop: 8751, Start Num: 65

Candidate Starts for Bxz2\_13:

(Start: 65 @7051 has 85 MA's), (94, 7099), (175, 7234), (238, 7426), (265, 7513), (Start: 313 @7711 has 1 MA's), (335, 7801), (356, 7864), (392, 8026), (464, 8224), (471, 8248), (472, 8251), (498, 8314), (505, 8335), (516, 8374), (545, 8470), (569, 8524), (594, 8560), (636, 8707), (656, 8737), (658, 8740),

Gene: ByChance\_2 Start: 573, Stop: 2210, Start Num: 99

Candidate Starts for ByChance\_2:

(Start: 99 @573 has 202 MA's), (Start: 105 @582 has 2 MA's), (Start: 115 @597 has 3 MA's), (Start: 127 @618 has 1 MA's), (Start: 144 @654 has 2 MA's), (146, 657), (153, 675), (185, 720), (200, 759), (222, 846), (233, 906), (245, 930), (248, 939), (249, 942), (252, 963), (258, 984), (267, 999), (282, 1056), (296, 1095), (306, 1164), (309, 1170), (317, 1200), (318, 1203), (319, 1212), (323, 1227), (327, 1245), (338, 1296), (364, 1389), (367, 1398), (417, 1569), (435, 1581), (464, 1665), (474, 1695), (476, 1698), (478, 1701), (498, 1758), (503, 1773), (505, 1779), (506, 1782), (511, 1797), (514, 1806), (524, 1845), (532, 1875), (543, 1905), (547, 1914), (560, 1947), (576, 1980), (593, 2007), (605, 2040), (612, 2070), (617, 2091), (621, 2115), (624, 2124), (625, 2127), (650, 2184),

Gene: Byougenkin\_2 Start: 629, Stop: 2209, Start Num: 134

Candidate Starts for Byougenkin\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (358, 1346), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (569, 1964), (576, 1979), (593, 2006), (605, 2039), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: C3\_10 Start: 7374, Stop: 9164, Start Num: 63

Candidate Starts for C3\_10:

(Start: 37 @7296 has 19 MA's), (50, 7347), (Start: 63 @7374 has 231 MA's), (128, 7482), (138, 7503), (160, 7569), (173, 7611), (182, 7635), (225, 7773), (263, 7893), (265, 7896), (299, 8007), (Start: 313 @8097 has 1 MA's), (319, 8121), (335, 8187), (345, 8223), (356, 8250), (357, 8253), (433, 8553), (464, 8640), (475, 8673), (502, 8739), (511, 8766), (516, 8787), (539, 8871), (545, 8883), (595, 8976), (600, 8991), (636, 9120), (654, 9147), (656, 9150),

Gene: C3PO\_12 Start: 6699, Stop: 8765, Start Num: 4

Candidate Starts for C3PO\_12:

(Start: 4 @6699 has 5 MA's), (7, 6756), (24, 6894), (29, 6924), (34, 6948), (79, 7065), (Start: 105 @7110 has 2 MA's), (138, 7173), (149, 7197), (212, 7359), (214, 7374), (215, 7392), (216, 7395), (223, 7419), (225, 7437), (241, 7494), (242, 7497), (252, 7539), (262, 7566), (268, 7584), (274, 7611), (279, 7629), (281, 7632), (299, 7686), (317, 7770), (318, 7773), (322, 7794), (327, 7815), (345, 7887), (358, 7917), (367, 7968), (394, 8049), (404, 8082), (465, 8244), (502, 8346), (511, 8373), (514, 8382), (552, 8493), (591, 8556), (621, 8667), (624, 8676), (659, 8757),

Gene: CRB1\_12 Start: 7407, Stop: 9194, Start Num: 63

Candidate Starts for CRB1\_12:

(Start: 63 @7407 has 231 MA's), (128, 7515), (138, 7536), (169, 7626), (173, 7644), (203, 7731), (221, 7785), (248, 7875), (263, 7926), (265, 7929), (299, 8037), (Start: 313 @8127 has 1 MA's), (319, 8151), (351, 8268), (357, 8283), (433, 8583), (502, 8769), (511, 8796), (516, 8817), (545, 8913), (636, 9150), (656, 9180),

Gene: Cabrinians\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Cabrinians\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: CactusRose\_10 Start: 6744, Stop: 8432, Start Num: 62

Candidate Starts for CactusRose\_10:

(Start: 62 @6744 has 371 MA's), (Start: 179 @6924 has 2 MA's), (213, 7008), (219, 7044), (225, 7071), (265, 7194), (299, 7302), (Start: 313 @7392 has 1 MA's), (319, 7416), (337, 7491), (359, 7560), (379, 7647), (392, 7707), (472, 7932), (477, 7941), (481, 7953), (498, 7995), (505, 8016), (515, 8043), (545, 8151), (594, 8241), (621, 8346),

Gene: Caelakin\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Caelakin\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Caelum\_7 Start: 2093, Stop: 3742, Start Num: 59

Candidate Starts for Caelum\_7:

(Start: 59 @2093 has 85 MA's), (Start: 115 @2180 has 3 MA's), (120, 2192), (189, 2318), (213, 2366), (Start: 218 @2399 has 2 MA's), (221, 2408), (246, 2492), (248, 2498), (250, 2507), (255, 2534), (266,

2555), (287, 2615), (296, 2642), (307, 2714), (Start: 313 @2738 has 1 MA's), (338, 2837), (347, 2873), (357, 2891), (395, 3011), (396, 3014), (405, 3050), (409, 3068), (470, 3221), (475, 3233), (494, 3284), (502, 3311), (533, 3419), (545, 3458), (556, 3479), (563, 3503), (623, 3656), (624, 3659), (660, 3737),

Gene: Caitlin\_8 Start: 5701, Stop: 7455, Start Num: 42

Candidate Starts for Caitlin\_8:

(Start: 42 @5701 has 30 MA's), (Start: 54 @5743 has 7 MA's), (Start: 81 @5782 has 1 MA's), (143, 5890), (225, 6097), (291, 6298), (Start: 313 @6406 has 1 MA's), (344, 6535), (385, 6700), (395, 6733), (441, 6853), (464, 6928), (505, 7039), (511, 7057), (516, 7078), (531, 7132), (545, 7174), (599, 7279), (624, 7378), (636, 7411), (658, 7444), (660, 7450),

Gene: Caliburn\_6 Start: 2382, Stop: 4028, Start Num: 59

Candidate Starts for Caliburn\_6:

(Start: 59 @2382 has 85 MA's), (Start: 75 @2400 has 21 MA's), (189, 2604), (Start: 218 @2685 has 2 MA's), (255, 2820), (266, 2841), (296, 2928), (307, 3000), (Start: 313 @3024 has 1 MA's), (338, 3123), (357, 3177), (389, 3276), (405, 3336), (468, 3498), (470, 3507), (502, 3597), (511, 3624), (532, 3702), (533, 3705), (545, 3744), (556, 3765), (558, 3771), (563, 3789), (609, 3885), (624, 3945),

Gene: Calvinny\_14 Start: 7029, Stop: 8729, Start Num: 65

Candidate Starts for Calvinny\_14:

(Start: 65 @7029 has 85 MA's), (94, 7077), (Start: 137 @7149 has 1 MA's), (175, 7212), (265, 7491), (Start: 313 @7689 has 1 MA's), (335, 7779), (356, 7842), (392, 8004), (464, 8202), (471, 8226), (472, 8229), (498, 8292), (502, 8304), (505, 8313), (511, 8331), (516, 8352), (545, 8448), (569, 8502), (594, 8538), (636, 8685), (656, 8715), (658, 8718),

Gene: Camperdownii\_10 Start: 6501, Stop: 8198, Start Num: 62

Candidate Starts for Camperdownii\_10:

(Start: 62 @6501 has 371 MA's), (Start: 81 @6525 has 1 MA's), (Start: 148 @6648 has 2 MA's), (196, 6738), (213, 6771), (238, 6870), (263, 6954), (265, 6957), (276, 6996), (299, 7065), (303, 7089), (Start: 313 @7155 has 1 MA's), (335, 7245), (379, 7410), (401, 7497), (408, 7530), (438, 7596), (463, 7668), (464, 7671), (471, 7695), (494, 7746), (498, 7761), (516, 7821), (545, 7917), (576, 7986), (635, 8151), (636, 8154), (656, 8184), (658, 8187),

Gene: Candra\_15 Start: 7566, Stop: 9320, Start Num: 63

Candidate Starts for Candra\_15:

(Start: 63 @7566 has 231 MA's), (173, 7797), (189, 7848), (203, 7884), (225, 7959), (265, 8082), (276, 8121), (299, 8190), (303, 8214), (304, 8217), (Start: 313 @8280 has 1 MA's), (319, 8304), (344, 8403), (345, 8406), (356, 8433), (357, 8436), (438, 8721), (468, 8808), (471, 8820), (498, 8883), (511, 8922), (516, 8943), (539, 9027), (545, 9039), (636, 9276), (654, 9303), (656, 9306),

Gene: CanesSauce\_4 Start: 1120, Stop: 2799, Start Num: 101

Candidate Starts for CanesSauce\_4:

(Start: 101 @1120 has 80 MA's), (Start: 137 @1171 has 1 MA's), (147, 1192), (Start: 148 @1195 has 2 MA's), (177, 1237), (201, 1303), (Start: 218 @1363 has 2 MA's), (224, 1384), (225, 1393), (250, 1480), (259, 1516), (265, 1525), (278, 1576), (305, 1675), (316, 1729), (326, 1765), (362, 1909), (372, 1945), (383, 1984), (414, 2131), (436, 2155), (466, 2254), (496, 2338), (523, 2425), (556, 2521), (587, 2569), (596, 2593), (611, 2644), (632, 2725), (656, 2785), (658, 2788),

Gene: Cappuccino\_2 Start: 593, Stop: 2281, Start Num: 90

Candidate Starts for Cappuccino\_2:

(Start: 90 @593 has 17 MA's), (201, 794), (243, 938), (250, 962), (265, 1007), (295, 1094), (305, 1148), (312, 1187), (344, 1322), (371, 1424), (409, 1535), (453, 1646), (464, 1697), (545, 1952), (553, 1967), (624, 2192), (627, 2204), (634, 2219),

Gene: Caprice\_32 Start: 10508, Stop: 12250, Start Num: 101

Candidate Starts for Caprice\_32:

(Start: 101 @10508 has 80 MA's), (175, 10625), (189, 10670), (206, 10736), (208, 10751), (215, 10784), (216, 10787), (221, 10802), (226, 10826), (227, 10829), (238, 10859), (244, 10880), (246, 10898), (249, 10907), (256, 10943), (265, 10958), (278, 11003), (296, 11045), (301, 11084), (305, 11096), (307, 11117), (320, 11168), (327, 11189), (388, 11411), (412, 11516), (414, 11525), (447, 11558), (455, 11579), (456, 11582), (460, 11609), (464, 11639), (468, 11651), (472, 11666), (477, 11675), (479, 11681), (493, 11723), (495, 11732), (500, 11747), (505, 11762), (523, 11822), (531, 11861), (540, 11894), (556, 11924), (557, 11927), (583, 12011), (599, 12065), (604, 12080), (612, 12107), (624, 12161), (654, 12233), (656, 12236),

Gene: CaptainTrips\_3 Start: 1235, Stop: 2872, Start Num: 99

Candidate Starts for CaptainTrips\_3:

(Start: 99 @1235 has 202 MA's), (109, 1250), (Start: 115 @1259 has 3 MA's), (118, 1265), (Start: 134 @1292 has 1 MA's), (Start: 144 @1316 has 2 MA's), (146, 1319), (185, 1382), (189, 1400), (200, 1421), (222, 1508), (223, 1514), (233, 1568), (241, 1580), (245, 1592), (248, 1601), (249, 1604), (252, 1625), (258, 1646), (267, 1661), (282, 1718), (296, 1757), (306, 1826), (309, 1832), (317, 1862), (318, 1865), (319, 1874), (323, 1889), (327, 1907), (338, 1958), (367, 2060), (417, 2231), (435, 2243), (450, 2261), (464, 2327), (474, 2357), (476, 2360), (478, 2363), (498, 2420), (503, 2435), (505, 2441), (506, 2444), (511, 2459), (514, 2468), (532, 2537), (543, 2567), (547, 2576), (560, 2609), (576, 2642), (593, 2669), (605, 2702), (611, 2729), (612, 2732), (617, 2753), (621, 2777), (624, 2786), (625, 2789), (650, 2846),

Gene: CaramellLatte\_4 Start: 1120, Stop: 2799, Start Num: 101

Candidate Starts for CaramellLatte\_4:

(Start: 101 @1120 has 80 MA's), (Start: 137 @1171 has 1 MA's), (147, 1192), (Start: 148 @1195 has 2 MA's), (177, 1237), (201, 1303), (Start: 218 @1363 has 2 MA's), (224, 1384), (225, 1393), (250, 1480), (259, 1516), (265, 1525), (278, 1576), (305, 1675), (316, 1729), (326, 1765), (362, 1909), (372, 1945), (383, 1984), (414, 2131), (436, 2155), (466, 2254), (496, 2338), (523, 2425), (556, 2521), (587, 2569), (596, 2593), (611, 2644), (632, 2725), (656, 2785), (658, 2788),

Gene: Caraxes\_11 Start: 6158, Stop: 7942, Start Num: 63

Candidate Starts for Caraxes\_11:

(Start: 63 @6158 has 231 MA's), (173, 6389), (203, 6476), (250, 6629), (263, 6671), (265, 6674), (299, 6785), (303, 6809), (304, 6812), (Start: 313 @6875 has 1 MA's), (319, 6899), (357, 7031), (475, 7451), (511, 7544), (516, 7565), (539, 7649), (545, 7661), (600, 7769), (636, 7898), (654, 7925), (656, 7928),

Gene: Cardigan\_30 Start: 10698, Stop: 12416, Start Num: 102

Candidate Starts for Cardigan\_30:

(Start: 102 @10698 has 27 MA's), (125, 10734), (178, 10830), (235, 11043), (238, 11070), (241, 11082), (249, 11106), (285, 11220), (329, 11415), (341, 11463), (366, 11565), (390, 11625), (396, 11640), (495, 11964), (502, 11985), (511, 12012), (531, 12087), (541, 12129), (623, 12330), (635, 12363),

Gene: Carlyle\_13 Start: 7592, Stop: 9280, Start Num: 62

Candidate Starts for Carlyle\_13:

(Start: 62 @7592 has 371 MA's), (213, 7856), (215, 7880), (265, 8042), (274, 8075), (299, 8150), (Start: 313 @8240 has 1 MA's), (319, 8264), (327, 8291), (337, 8339), (379, 8495), (392, 8555), (472, 8780), (477, 8789), (481, 8801), (498, 8843), (505, 8864), (515, 8891), (545, 8999), (594, 9089), (621, 9194),

Gene: Caron\_2 Start: 631, Stop: 2349, Start Num: 83

Candidate Starts for Caron\_2:

(Start: 83 @631 has 13 MA's), (177, 781), (243, 1003), (255, 1054), (265, 1072), (305, 1222), (432, 1678), (453, 1717), (494, 1852), (545, 2023), (553, 2038), (585, 2125), (609, 2203), (627, 2275),

Gene: Carsonalex\_5 Start: 1170, Stop: 2849, Start Num: 101

Candidate Starts for Carsonalex\_5:

(Start: 101 @1170 has 80 MA's), (Start: 137 @1221 has 1 MA's), (147, 1242), (177, 1287), (203, 1368), (224, 1434), (225, 1443), (246, 1515), (250, 1530), (259, 1566), (265, 1575), (278, 1626), (305, 1725), (316, 1779), (326, 1815), (362, 1959), (372, 1995), (383, 2034), (388, 2067), (408, 2148), (412, 2172), (436, 2205), (455, 2238), (463, 2295), (466, 2304), (496, 2388), (523, 2475), (556, 2571), (596, 2643), (599, 2655), (632, 2775), (656, 2835), (658, 2838),

Gene: Cashline\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for Cashline\_2:

(Start: 70 @485 has 45 MA's), (201, 782), (203, 797), (228, 881), (239, 911), (243, 923), (246, 932), (254, 971), (265, 992), (295, 1076), (306, 1148), (316, 1184), (325, 1220), (345, 1310), (350, 1331), (361, 1376), (362, 1382), (371, 1415), (439, 1589), (456, 1616), (472, 1685), (475, 1691), (494, 1757), (497, 1769), (506, 1796), (533, 1907), (539, 1943), (545, 1955), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627, 2207), (632, 2222), (634, 2225), (656, 2270), (658, 2273),

Gene: Cassia\_2 Start: 547, Stop: 2244, Start Num: 84

Candidate Starts for Cassia\_2:

(Start: 84 @547 has 42 MA's), (Start: 137 @634 has 1 MA's), (247, 919), (265, 976), (276, 1018), (305, 1114), (316, 1168), (344, 1288), (367, 1378), (386, 1417), (434, 1576), (464, 1663), (502, 1774), (523, 1843), (545, 1918), (553, 1933), (599, 2059), (620, 2143), (627, 2167),

Gene: CatBus\_12 Start: 7751, Stop: 9439, Start Num: 62

Candidate Starts for CatBus\_12:

(Start: 62 @7751 has 371 MA's), (Start: 179 @7931 has 2 MA's), (213, 8015), (219, 8051), (225, 8078), (265, 8201), (274, 8234), (299, 8309), (Start: 313 @8399 has 1 MA's), (319, 8423), (327, 8450), (337, 8498), (359, 8567), (375, 8642), (379, 8654), (382, 8663), (392, 8714), (472, 8939), (477, 8948), (481, 8960), (498, 9002), (505, 9023), (515, 9050), (545, 9158), (594, 9248), (621, 9353),

Gene: Catalina\_13 Start: 8125, Stop: 9897, Start Num: 75

Candidate Starts for Catalina\_13:

(Start: 63 @8110 has 231 MA's), (Start: 75 @8125 has 21 MA's), (Start: 80 @8131 has 5 MA's), (143, 8242), (173, 8341), (225, 8503), (248, 8575), (265, 8629), (276, 8668), (299, 8740), (Start: 313 @8830 has 1 MA's), (319, 8854), (351, 8971), (357, 8986), (382, 9094), (400, 9169), (408, 9205), (423, 9265), (468, 9385), (475, 9406), (494, 9445), (511, 9499), (512, 9502), (516, 9520), (531, 9574), (539, 9604), (545, 9616), (594, 9706), (600, 9724), (636, 9853), (654, 9880), (656, 9883),

Gene: Caviar\_12 Start: 7044, Stop: 8741, Start Num: 62

Candidate Starts for Caviar\_12:

(Start: 62 @7044 has 371 MA's), (Start: 81 @7068 has 1 MA's), (213, 7314), (257, 7488), (265, 7500), (276, 7539), (283, 7551), (299, 7608), (303, 7632), (Start: 313 @7698 has 1 MA's), (316, 7707), (335, 7788), (344, 7821), (379, 7953), (383, 7965), (395, 8019), (401, 8040), (408, 8073), (432, 8127), (464, 8214), (471, 8238), (472, 8241), (475, 8247), (479, 8256), (498, 8304), (511, 8343), (512, 8346), (516, 8364), (545, 8460), (569, 8514), (625, 8667), (636, 8697), (656, 8727), (658, 8730),

Gene: Celery\_8 Start: 2487, Stop: 4133, Start Num: 61

Candidate Starts for Celery\_8:

(Start: 57 @2478 has 2 MA's), (Start: 61 @2487 has 11 MA's), (Start: 64 @2490 has 1 MA's), (Start: 75 @2505 has 21 MA's), (189, 2709), (Start: 218 @2790 has 2 MA's), (246, 2883), (250, 2898), (255,

2925), (259, 2934), (266, 2946), (296, 3033), (Start: 313 @3129 has 1 MA's), (338, 3228), (389, 3381), (395, 3402), (405, 3441), (464, 3591), (466, 3597), (470, 3612), (494, 3675), (511, 3729), (512, 3732), (545, 3849), (558, 3876), (563, 3894), (592, 3936), (624, 4050),

Gene: Celeste\_6 Start: 2378, Stop: 4024, Start Num: 59

Candidate Starts for Celeste\_6:

(Start: 59 @2378 has 85 MA's), (Start: 75 @2396 has 21 MA's), (189, 2600), (203, 2636), (255, 2816), (266, 2837), (282, 2882), (296, 2924), (307, 2996), (Start: 313 @3020 has 1 MA's), (338, 3119), (342, 3134), (351, 3158), (353, 3164), (405, 3332), (464, 3482), (470, 3503), (475, 3515), (502, 3593), (533, 3701), (545, 3740), (556, 3761), (558, 3767), (563, 3785), (624, 3941),

Gene: Celestiallunch\_12 Start: 6229, Stop: 8004, Start Num: 75

Candidate Starts for Celestiallunch\_12:

(Start: 63 @6214 has 231 MA's), (Start: 75 @6229 has 21 MA's), (143, 6346), (173, 6445), (175, 6451), (225, 6607), (248, 6679), (265, 6733), (276, 6772), (299, 6844), (Start: 313 @6934 has 1 MA's), (319, 6958), (356, 7087), (357, 7090), (400, 7273), (423, 7369), (454, 7429), (494, 7552), (498, 7567), (502, 7579), (516, 7627), (531, 7681), (539, 7711), (545, 7723), (595, 7816), (600, 7831), (636, 7960), (654, 7987), (656, 7990),

Gene: Celia\_6 Start: 2655, Stop: 4316, Start Num: 59

Candidate Starts for Celia\_6:

(Start: 59 @2655 has 85 MA's), (172, 2838), (185, 2874), (239, 3045), (255, 3108), (276, 3165), (296, 3216), (307, 3288), (Start: 313 @3312 has 1 MA's), (321, 3345), (330, 3381), (338, 3411), (344, 3432), (368, 3525), (389, 3564), (396, 3588), (405, 3624), (425, 3684), (464, 3774), (470, 3795), (479, 3816), (512, 3915), (545, 4032), (563, 4077),

Gene: Cen1621\_2 Start: 604, Stop: 2328, Start Num: 83

Candidate Starts for Cen1621\_2:

(Start: 83 @604 has 13 MA's), (203, 841), (231, 943), (239, 964), (243, 976), (255, 1027), (265, 1045), (305, 1195), (464, 1744), (494, 1828), (498, 1843), (511, 1882), (533, 1963), (545, 1999), (553, 2014), (576, 2068), (609, 2179), (624, 2239), (627, 2251),

Gene: Centaur\_14 Start: 7923, Stop: 9710, Start Num: 63

Candidate Starts for Centaur\_14:

(16, 7737), (35, 7839), (Start: 63 @7923 has 231 MA's), (128, 8031), (138, 8052), (173, 8160), (248, 8391), (263, 8442), (265, 8445), (299, 8553), (Start: 313 @8643 has 1 MA's), (319, 8667), (357, 8799), (464, 9186), (511, 9312), (516, 9333), (539, 9417), (545, 9429), (636, 9666), (654, 9693), (656, 9696), (658, 9699), (659, 9702),

Gene: CentreCat\_11 Start: 6885, Stop: 8582, Start Num: 62

Candidate Starts for CentreCat\_11:

(Start: 62 @6885 has 371 MA's), (Start: 81 @6909 has 1 MA's), (Start: 148 @7032 has 2 MA's), (196, 7122), (213, 7155), (238, 7254), (263, 7338), (265, 7341), (276, 7380), (299, 7449), (303, 7473), (Start: 313 @7539 has 1 MA's), (335, 7629), (379, 7794), (401, 7881), (408, 7914), (438, 7980), (463, 8052), (464, 8055), (471, 8079), (494, 8130), (498, 8145), (511, 8184), (516, 8205), (545, 8301), (636, 8538), (656, 8568), (658, 8571),

Gene: Cerulean\_11 Start: 6862, Stop: 8559, Start Num: 62

Candidate Starts for Cerulean\_11:

(Start: 62 @6862 has 371 MA's), (Start: 81 @6886 has 1 MA's), (Start: 148 @7009 has 2 MA's), (196, 7099), (213, 7132), (263, 7315), (265, 7318), (276, 7357), (299, 7426), (303, 7450), (Start: 313 @7516 has 1 MA's), (335, 7606), (379, 7771), (401, 7858), (408, 7891), (438, 7957), (463, 8029), (464, 8032), (471, 8056), (494, 8107), (498, 8122), (511, 8161), (516, 8182), (545, 8278), (636, 8515), (656, 8545),

(658, 8548),

Gene: Chadwick\_10 Start: 5983, Stop: 7734, Start Num: 42

Candidate Starts for Chadwick\_10:

(Start: 37 @5956 has 19 MA's), (Start: 42 @5983 has 30 MA's), (Start: 66 @6043 has 35 MA's), (73, 6052), (97, 6091), (143, 6172), (203, 6304), (225, 6379), (226, 6382), (284, 6556), (Start: 313 @6688 has 1 MA's), (324, 6733), (342, 6811), (344, 6817), (385, 6982), (395, 7015), (401, 7036), (464, 7210), (471, 7234), (511, 7336), (516, 7357), (531, 7411), (539, 7441), (545, 7453), (569, 7507), (635, 7687), (636, 7690), (658, 7723), (660, 7729),

Gene: ChampagnePapi\_11 Start: 6861, Stop: 8558, Start Num: 62

Candidate Starts for ChampagnePapi\_11:

(Start: 62 @6861 has 371 MA's), (Start: 81 @6885 has 1 MA's), (Start: 148 @7008 has 2 MA's), (196, 7098), (213, 7131), (263, 7314), (265, 7317), (276, 7356), (299, 7425), (303, 7449), (Start: 313 @7515 has 1 MA's), (335, 7605), (379, 7770), (401, 7857), (408, 7890), (438, 7956), (463, 8028), (464, 8031), (471, 8055), (494, 8106), (498, 8121), (511, 8160), (516, 8181), (545, 8277), (636, 8514), (656, 8544), (658, 8547),

Gene: Chanagan\_10 Start: 6588, Stop: 8276, Start Num: 62

Candidate Starts for Chanagan\_10:

(Start: 62 @6588 has 371 MA's), (Start: 179 @6768 has 2 MA's), (213, 6852), (219, 6888), (225, 6915), (265, 7038), (274, 7071), (299, 7146), (Start: 313 @7236 has 1 MA's), (319, 7260), (327, 7287), (337, 7335), (359, 7404), (375, 7479), (379, 7491), (392, 7551), (472, 7776), (477, 7785), (481, 7797), (498, 7839), (505, 7860), (515, 7887), (545, 7995), (594, 8085), (621, 8190),

Gene: Changeling\_15 Start: 9284, Stop: 11071, Start Num: 63

Candidate Starts for Changeling\_15:

(18, 9110), (35, 9200), (Start: 63 @9284 has 231 MA's), (128, 9392), (138, 9413), (173, 9521), (182, 9545), (189, 9572), (203, 9608), (263, 9803), (265, 9806), (276, 9845), (299, 9914), (Start: 313 @10004 has 1 MA's), (319, 10028), (357, 10160), (464, 10547), (502, 10646), (511, 10673), (516, 10694), (539, 10778), (545, 10790), (636, 11027), (654, 11054), (656, 11057), (658, 11060), (659, 11063),

Gene: Chaph\_11 Start: 6893, Stop: 8590, Start Num: 62

Candidate Starts for Chaph\_11:

(Start: 62 @6893 has 371 MA's), (Start: 81 @6917 has 1 MA's), (Start: 148 @7040 has 2 MA's), (196, 7130), (213, 7163), (238, 7262), (263, 7346), (265, 7349), (276, 7388), (299, 7457), (303, 7481), (Start: 313 @7547 has 1 MA's), (335, 7637), (379, 7802), (401, 7889), (408, 7922), (438, 7988), (463, 8060), (464, 8063), (471, 8087), (494, 8138), (498, 8153), (511, 8192), (516, 8213), (545, 8309), (636, 8546), (656, 8576), (658, 8579),

Gene: Chargerpower\_12 Start: 6588, Stop: 8372, Start Num: 63

Candidate Starts for Chargerpower\_12:

(Start: 63 @6588 has 231 MA's), (131, 6696), (143, 6720), (159, 6774), (162, 6786), (165, 6795), (173, 6819), (219, 6954), (248, 7050), (263, 7101), (265, 7104), (299, 7215), (303, 7239), (Start: 313 @7305 has 1 MA's), (319, 7329), (335, 7395), (344, 7428), (351, 7446), (357, 7461), (382, 7569), (408, 7680), (494, 7920), (498, 7935), (502, 7947), (511, 7974), (545, 8091), (636, 8328), (654, 8355), (656, 8358),

Gene: Charm\_12 Start: 6308, Stop: 8080, Start Num: 75

Candidate Starts for Charm\_12:

(Start: 63 @6296 has 231 MA's), (Start: 75 @6308 has 21 MA's), (143, 6425), (173, 6524), (223, 6674), (225, 6686), (248, 6758), (265, 6812), (276, 6851), (299, 6923), (310, 6995), (Start: 313 @7013 has 1 MA's), (319, 7037), (351, 7154), (357, 7169), (382, 7277), (400, 7352), (423, 7448), (475, 7589), (494,

7628), (511, 7682), (512, 7685), (516, 7703), (531, 7757), (539, 7787), (545, 7799), (594, 7889), (600, 7907), (636, 8036), (654, 8063), (656, 8066),

Gene: Chartreuse\_15 Start: 7480, Stop: 9234, Start Num: 63

Candidate Starts for Chartreuse\_15:

(Start: 63 @7480 has 231 MA's), (173, 7711), (189, 7762), (203, 7798), (225, 7873), (265, 7996), (276, 8035), (299, 8104), (303, 8128), (304, 8131), (Start: 313 @8194 has 1 MA's), (319, 8218), (344, 8317), (345, 8320), (356, 8347), (357, 8350), (438, 8635), (468, 8722), (471, 8734), (498, 8797), (511, 8836), (516, 8857), (539, 8941), (545, 8953), (636, 9190), (654, 9217), (656, 9220),

Gene: Che12\_13 Start: 6255, Stop: 8039, Start Num: 63

Candidate Starts for Che12\_13:

(Start: 63 @6255 has 231 MA's), (173, 6486), (203, 6573), (250, 6726), (263, 6768), (265, 6771), (299, 6882), (303, 6906), (304, 6909), (Start: 313 @6972 has 1 MA's), (319, 6996), (511, 7641), (516, 7662), (539, 7746), (545, 7758), (600, 7866), (636, 7995), (654, 8022), (656, 8025),

Gene: Che8\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Che8\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 134 @628 has 1 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (267, 997), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (358, 1345), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (450, 1597), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (560, 1945), (569, 1963), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Cheesepuff\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Cheesepuff\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183), (653, 2189),

Gene: CherryonLim\_5 Start: 1648, Stop: 3324, Start Num: 101

Candidate Starts for CherryonLim\_5:

(Start: 101 @1648 has 80 MA's), (Start: 137 @1699 has 1 MA's), (147, 1720), (177, 1765), (203, 1843), (224, 1909), (243, 1972), (250, 2005), (259, 2041), (265, 2050), (266, 2053), (274, 2086), (278, 2101), (285, 2119), (305, 2200), (307, 2221), (317, 2257), (321, 2278), (330, 2314), (347, 2380), (362, 2434), (406, 2614), (412, 2647), (455, 2713), (456, 2716), (466, 2779), (468, 2785), (523, 2950), (531, 2983), (558, 3052), (599, 3130), (600, 3133), (623, 3223), (625, 3229), (632, 3250), (656, 3310), (658, 3313),

Gene: Chevrolet\_2 Start: 573, Stop: 2210, Start Num: 99

Candidate Starts for Chevrolet\_2:

(Start: 99 @573 has 202 MA's), (Start: 105 @582 has 2 MA's), (Start: 115 @597 has 3 MA's), (Start: 127 @618 has 1 MA's), (Start: 134 @630 has 1 MA's), (Start: 144 @654 has 2 MA's), (146, 657), (185, 720), (200, 759), (222, 846), (233, 906), (241, 918), (245, 930), (248, 939), (249, 942), (252, 963), (258, 984), (267, 999), (282, 1056), (296, 1095), (306, 1164), (309, 1170), (317, 1200), (318, 1203), (319, 1212), (323, 1227), (327, 1245), (338, 1296), (364, 1389), (367, 1398), (417, 1569), (435, 1581), (464,

1665), (474, 1695), (476, 1698), (478, 1701), (498, 1758), (503, 1773), (505, 1779), (506, 1782), (511, 1797), (514, 1806), (532, 1875), (543, 1905), (547, 1914), (560, 1947), (576, 1980), (593, 2007), (605, 2040), (609, 2061), (611, 2067), (612, 2070), (617, 2091), (621, 2115), (624, 2124), (625, 2127), (650, 2184),

Gene: ChewyVIII\_38 Start: 19903, Stop: 21543, Start Num: 121

Candidate Starts for ChewyVIII\_38:

(103, 19873), (110, 19882), (Start: 121 @19903 has 5 MA's), (Start: 134 @19930 has 1 MA's), (153, 19975), (166, 19984), (209, 20107), (212, 20113), (215, 20140), (225, 20185), (232, 20224), (246, 20257), (248, 20263), (302, 20461), (317, 20524), (343, 20635), (360, 20680), (367, 20719), (394, 20806), (405, 20848), (458, 20974), (499, 21118), (518, 21187), (519, 21193), (547, 21262), (567, 21310), (601, 21367), (629, 21478), (633, 21487), (653, 21523),

Gene: ChickenTender\_6 Start: 1161, Stop: 2840, Start Num: 101

Candidate Starts for ChickenTender\_6:

(Start: 101 @1161 has 80 MA's), (Start: 137 @1212 has 1 MA's), (147, 1233), (Start: 148 @1236 has 2 MA's), (177, 1278), (203, 1359), (224, 1425), (225, 1434), (246, 1506), (250, 1521), (259, 1557), (265, 1566), (278, 1617), (305, 1716), (316, 1770), (326, 1806), (362, 1950), (372, 1986), (383, 2025), (388, 2058), (401, 2106), (408, 2139), (412, 2163), (436, 2196), (455, 2229), (463, 2286), (466, 2295), (496, 2379), (505, 2406), (523, 2466), (556, 2562), (596, 2634), (599, 2646), (632, 2766), (656, 2826), (658, 2829),

Gene: ChipMunk\_14 Start: 7824, Stop: 9611, Start Num: 63

Candidate Starts for ChipMunk\_14:

(Start: 63 @7824 has 231 MA's), (128, 7932), (138, 7953), (173, 8061), (203, 8148), (248, 8292), (263, 8343), (265, 8346), (299, 8454), (Start: 313 @8544 has 1 MA's), (319, 8568), (351, 8685), (357, 8700), (433, 9000), (502, 9186), (511, 9213), (516, 9234), (545, 9330), (636, 9567), (656, 9597),

Gene: Chiqui\_10 Start: 6717, Stop: 8414, Start Num: 62

Candidate Starts for Chiqui\_10:

(Start: 62 @6717 has 371 MA's), (109, 6789), (213, 6987), (225, 7050), (257, 7161), (265, 7173), (276, 7212), (283, 7224), (299, 7281), (303, 7305), (Start: 313 @7371 has 1 MA's), (316, 7380), (335, 7461), (342, 7488), (379, 7626), (395, 7692), (401, 7713), (408, 7746), (438, 7812), (464, 7887), (471, 7911), (472, 7914), (475, 7920), (479, 7929), (498, 7977), (511, 8016), (516, 8037), (545, 8133), (563, 8178), (569, 8187), (625, 8340), (636, 8370), (656, 8400), (658, 8403),

Gene: ChocoMunchkin\_4 Start: 1120, Stop: 2799, Start Num: 101

Candidate Starts for ChocoMunchkin\_4:

(Start: 101 @1120 has 80 MA's), (Start: 137 @1171 has 1 MA's), (147, 1192), (Start: 148 @1195 has 2 MA's), (177, 1237), (201, 1303), (Start: 218 @1363 has 2 MA's), (224, 1384), (225, 1393), (250, 1480), (259, 1516), (265, 1525), (278, 1576), (305, 1675), (316, 1729), (326, 1765), (362, 1909), (372, 1945), (383, 1984), (414, 2131), (436, 2155), (466, 2254), (496, 2338), (523, 2425), (556, 2521), (587, 2569), (596, 2593), (611, 2644), (632, 2725), (656, 2785), (658, 2788),

Gene: ChristmasHams\_11 Start: 7055, Stop: 8743, Start Num: 62

Candidate Starts for ChristmasHams\_11:

(Start: 62 @7055 has 371 MA's), (213, 7319), (215, 7343), (265, 7505), (274, 7538), (299, 7613), (Start: 313 @7703 has 1 MA's), (319, 7727), (327, 7754), (337, 7802), (379, 7958), (392, 8018), (472, 8243), (477, 8252), (481, 8264), (498, 8306), (505, 8327), (515, 8354), (545, 8462), (594, 8552), (621, 8657),

Gene: Chuckly\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Chuckly\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Chucky\_6 Start: 2377, Stop: 4023, Start Num: 59

Candidate Starts for Chucky\_6:

(Start: 59 @2377 has 85 MA's), (Start: 75 @2395 has 21 MA's), (Start: 150 @2527 has 2 MA's), (189, 2599), (203, 2635), (255, 2815), (266, 2836), (282, 2881), (296, 2923), (307, 2995), (Start: 313 @3019 has 1 MA's), (338, 3118), (342, 3133), (351, 3157), (353, 3163), (405, 3331), (464, 3481), (470, 3502), (494, 3565), (502, 3592), (533, 3700), (545, 3739), (556, 3760), (558, 3766), (563, 3784), (609, 3880), (624, 3940), (660, 4018),

Gene: Chupacabra\_11 Start: 6706, Stop: 8379, Start Num: 62

Candidate Starts for Chupacabra\_11:

(Start: 62 @6706 has 371 MA's), (Start: 148 @6835 has 2 MA's), (185, 6901), (213, 6967), (222, 7012), (238, 7066), (250, 7108), (265, 7153), (276, 7192), (296, 7240), (299, 7261), (303, 7285), (Start: 313 @7336 has 1 MA's), (344, 7459), (351, 7477), (362, 7528), (384, 7606), (397, 7666), (408, 7711), (438, 7777), (463, 7849), (464, 7852), (471, 7876), (498, 7942), (511, 7981), (512, 7984), (516, 8002), (545, 8098), (576, 8167), (636, 8335), (656, 8365), (658, 8368),

Gene: Ciao\_11 Start: 6974, Stop: 8662, Start Num: 62

Candidate Starts for Ciao\_11:

(Start: 62 @6974 has 371 MA's), (Start: 179 @7154 has 2 MA's), (213, 7238), (219, 7274), (225, 7301), (253, 7397), (265, 7424), (274, 7457), (299, 7532), (Start: 313 @7622 has 1 MA's), (319, 7646), (337, 7721), (359, 7790), (379, 7877), (392, 7937), (477, 8171), (481, 8183), (498, 8225), (505, 8246), (515, 8273), (545, 8381), (594, 8471), (621, 8576),

Gene: Cici\_11 Start: 6881, Stop: 8578, Start Num: 62

Candidate Starts for Cici\_11:

(Start: 62 @6881 has 371 MA's), (Start: 81 @6905 has 1 MA's), (213, 7151), (239, 7256), (263, 7334), (265, 7337), (276, 7376), (299, 7445), (303, 7469), (Start: 313 @7535 has 1 MA's), (335, 7625), (379, 7790), (389, 7835), (401, 7877), (408, 7910), (438, 7976), (463, 8048), (464, 8051), (471, 8075), (498, 8141), (511, 8180), (516, 8201), (545, 8297), (635, 8531), (636, 8534), (656, 8564), (658, 8567),

Gene: Cindaradix\_10 Start: 6590, Stop: 8287, Start Num: 62

Candidate Starts for Cindaradix\_10:

(Start: 62 @6590 has 371 MA's), (Start: 81 @6614 has 1 MA's), (213, 6860), (263, 7043), (265, 7046), (276, 7085), (299, 7154), (303, 7178), (Start: 313 @7244 has 1 MA's), (316, 7253), (335, 7334), (344, 7367), (378, 7496), (379, 7499), (389, 7544), (401, 7586), (408, 7619), (464, 7760), (471, 7784), (472, 7787), (498, 7850), (511, 7889), (516, 7910), (545, 8006), (576, 8075), (600, 8114), (635, 8240), (636, 8243), (656, 8273), (658, 8276),

Gene: Cintron\_11 Start: 6929, Stop: 8626, Start Num: 62

Candidate Starts for Cintron\_11:

(Start: 62 @6929 has 371 MA's), (Start: 81 @6953 has 1 MA's), (Start: 148 @7076 has 2 MA's), (196, 7166), (213, 7199), (238, 7298), (263, 7382), (265, 7385), (276, 7424), (299, 7493), (303, 7517), (Start: 313 @7583 has 1 MA's), (335, 7673), (379, 7838), (401, 7925), (408, 7958), (463, 8096), (464, 8099), (471, 8123), (498, 8189), (511, 8228), (516, 8249), (545, 8345), (635, 8579), (636, 8582), (656, 8612),

(658, 8615),

Gene: Citius\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Citius\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Clammy\_11 Start: 6496, Stop: 8193, Start Num: 62

Candidate Starts for Clammy\_11:

(Start: 62 @6496 has 371 MA's), (Start: 81 @6520 has 1 MA's), (109, 6568), (213, 6766), (225, 6829), (257, 6940), (265, 6952), (276, 6991), (283, 7003), (299, 7060), (303, 7084), (Start: 313 @7150 has 1 MA's), (316, 7159), (335, 7240), (342, 7267), (379, 7405), (401, 7492), (408, 7525), (438, 7591), (464, 7666), (471, 7690), (472, 7693), (475, 7699), (479, 7708), (494, 7741), (498, 7756), (516, 7816), (545, 7912), (563, 7957), (569, 7966), (625, 8119), (636, 8149), (656, 8179), (658, 8182),

Gene: Clank\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Clank\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Clarenza\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Clarenza\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Clarkson\_36 Start: 11120, Stop: 12862, Start Num: 101

Candidate Starts for Clarkson\_36:

(Start: 101 @11120 has 80 MA's), (175, 11237), (189, 11282), (206, 11348), (208, 11363), (215, 11396), (216, 11399), (221, 11414), (226, 11438), (227, 11441), (238, 11471), (244, 11492), (246, 11510), (249, 11519), (256, 11555), (265, 11570), (278, 11615), (296, 11657), (301, 11696), (305, 11708), (307, 11729), (320, 11780), (327, 11801), (388, 12023), (412, 12128), (414, 12137), (447, 12170), (455, 12191), (456, 12194), (460, 12221), (464, 12251), (468, 12263), (472, 12278), (477, 12287), (479, 12293), (493, 12335), (495, 12344), (500, 12359), (505, 12374), (523, 12434), (531, 12473), (540, 12506), (556, 12536), (557, 12539), (583, 12623), (599, 12677), (604, 12692), (612, 12719), (624, 12773), (654, 12845), (656, 12848),

Gene: Cleo\_4 Start: 1285, Stop: 2979, Start Num: 101

Candidate Starts for Cleo\_4:

(Start: 101 @1285 has 80 MA's), (120, 1315), (143, 1348), (147, 1357), (203, 1495), (250, 1657), (252, 1672), (265, 1702), (270, 1723), (278, 1753), (299, 1822), (301, 1840), (305, 1852), (307, 1873), (326, 1942), (335, 1984), (383, 2161), (391, 2212), (408, 2275), (412, 2299), (436, 2332), (454, 2365), (466,

2434), (493, 2509), (495, 2518), (498, 2527), (502, 2539), (504, 2545), (511, 2566), (556, 2704), (611, 2827), (632, 2908), (656, 2965), (658, 2968),

Gene: Clifton\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Clifton\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: CloudWang3\_15 Start: 7511, Stop: 9265, Start Num: 63

Candidate Starts for CloudWang3\_15:

(Start: 63 @7511 has 231 MA's), (173, 7742), (189, 7793), (203, 7829), (225, 7904), (265, 8027), (276, 8066), (299, 8135), (303, 8159), (304, 8162), (Start: 313 @8225 has 1 MA's), (319, 8249), (344, 8348), (345, 8351), (356, 8378), (357, 8381), (438, 8666), (468, 8753), (471, 8765), (498, 8828), (511, 8867), (516, 8888), (539, 8972), (545, 8984), (636, 9221), (654, 9248), (656, 9251),

Gene: ClownCar\_14 Start: 7027, Stop: 8727, Start Num: 65

Candidate Starts for ClownCar\_14:

(Start: 65 @7027 has 85 MA's), (94, 7075), (175, 7210), (265, 7489), (Start: 313 @7687 has 1 MA's), (335, 7777), (356, 7840), (392, 8002), (464, 8200), (471, 8224), (472, 8227), (498, 8290), (502, 8302), (505, 8311), (511, 8329), (516, 8350), (545, 8446), (569, 8500), (594, 8536), (636, 8683), (656, 8713), (658, 8716),

Gene: ClubL\_30 Start: 8614, Stop: 10362, Start Num: 102

Candidate Starts for ClubL\_30:

(Start: 102 @8614 has 27 MA's), (120, 8644), (187, 8773), (235, 8959), (241, 8998), (249, 9022), (254, 9052), (263, 9070), (271, 9097), (280, 9127), (326, 9319), (329, 9337), (370, 9499), (390, 9547), (396, 9562), (453, 9745), (455, 9751), (471, 9835), (501, 9922), (512, 9955), (541, 10069), (558, 10105), (569, 10129), (579, 10144), (640, 10318), (644, 10324),

Gene: CocoaPuff\_3 Start: 903, Stop: 2579, Start Num: 101

Candidate Starts for CocoaPuff\_3:

(Start: 101 @903 has 80 MA's), (Start: 137 @954 has 1 MA's), (147, 975), (177, 1020), (189, 1062), (203, 1098), (224, 1164), (250, 1260), (259, 1296), (265, 1305), (266, 1308), (278, 1356), (283, 1368), (305, 1455), (347, 1635), (362, 1689), (406, 1869), (412, 1902), (455, 1968), (466, 2034), (468, 2040), (498, 2124), (523, 2205), (531, 2238), (558, 2307), (599, 2385), (600, 2388), (623, 2478), (625, 2484), (632, 2505), (635, 2511), (656, 2565), (658, 2568),

Gene: Cocoaberry\_11 Start: 6888, Stop: 8585, Start Num: 62

Candidate Starts for Cocoaberry\_11:

(Start: 62 @6888 has 371 MA's), (Start: 81 @6912 has 1 MA's), (Start: 148 @7035 has 2 MA's), (196, 7125), (213, 7158), (238, 7257), (263, 7341), (265, 7344), (276, 7383), (299, 7452), (303, 7476), (Start: 313 @7542 has 1 MA's), (335, 7632), (379, 7797), (401, 7884), (408, 7917), (438, 7983), (463, 8055), (464, 8058), (471, 8082), (494, 8133), (498, 8148), (511, 8187), (516, 8208), (545, 8304), (636, 8541), (656, 8571), (658, 8574),

Gene: CoffeeBean\_28 Start: 13981, Stop: 15654, Start Num: 99

Candidate Starts for CoffeeBean\_28:

(Start: 99 @13981 has 202 MA's), (184, 14125), (197, 14176), (241, 14350), (248, 14371), (252, 14395), (262, 14422), (272, 14455), (293, 14521), (302, 14569), (317, 14632), (323, 14659), (367, 14827), (371, 14839), (405, 14950), (416, 15001), (465, 15100), (492, 15199), (494, 15211), (502, 15238), (506, 15250), (511, 15265), (531, 15340), (547, 15373), (560, 15406), (605, 15490), (609, 15511), (621, 15559), (653, 15634),

Gene: CogOmlette\_10 Start: 6185, Stop: 7972, Start Num: 63

Candidate Starts for CogOmlette\_10:

(Start: 63 @6185 has 231 MA's), (143, 6314), (173, 6413), (225, 6575), (234, 6608), (248, 6647), (265, 6701), (276, 6740), (299, 6812), (Start: 313 @6902 has 1 MA's), (319, 6926), (351, 7043), (357, 7058), (382, 7166), (400, 7241), (424, 7340), (444, 7373), (468, 7457), (475, 7478), (494, 7520), (498, 7535), (502, 7547), (511, 7574), (516, 7595), (531, 7649), (545, 7691), (594, 7781), (600, 7799), (615, 7850), (636, 7928), (654, 7955), (656, 7958),

Gene: Colbster\_13 Start: 6957, Stop: 8657, Start Num: 65

Candidate Starts for Colbster\_13:

(Start: 65 @6957 has 85 MA's), (94, 7005), (175, 7140), (238, 7332), (265, 7419), (Start: 313 @7617 has 1 MA's), (335, 7707), (356, 7770), (392, 7932), (464, 8130), (471, 8154), (472, 8157), (498, 8220), (505, 8241), (516, 8280), (545, 8376), (569, 8430), (594, 8466), (636, 8613), (656, 8643), (658, 8646),

Gene: Colin\_16 Start: 9101, Stop: 10888, Start Num: 63

Candidate Starts for Colin\_16:

(Start: 63 @9101 has 231 MA's), (128, 9209), (138, 9230), (173, 9338), (189, 9389), (203, 9425), (225, 9500), (263, 9620), (265, 9623), (299, 9731), (304, 9758), (Start: 313 @9821 has 1 MA's), (319, 9845), (357, 9977), (464, 10364), (502, 10463), (511, 10490), (512, 10493), (516, 10511), (545, 10607), (636, 10844), (654, 10871), (656, 10874), (658, 10877), (659, 10880),

Gene: Colleen\_3 Start: 1236, Stop: 2873, Start Num: 121

Candidate Starts for Colleen\_3:

(Start: 121 @1236 has 5 MA's), (132, 1260), (163, 1338), (186, 1404), (219, 1503), (224, 1521), (225, 1530), (227, 1536), (241, 1584), (243, 1590), (246, 1599), (255, 1641), (257, 1647), (259, 1650), (265, 1659), (288, 1737), (Start: 313 @1854 has 1 MA's), (317, 1866), (318, 1869), (319, 1878), (335, 1941), (357, 2013), (362, 2046), (391, 2124), (427, 2235), (456, 2280), (496, 2412), (498, 2418), (536, 2550), (545, 2589), (594, 2679), (603, 2706), (623, 2787), (627, 2802), (628, 2805), (634, 2814), (658, 2862),

Gene: Commandaria\_26 Start: 13436, Stop: 15160, Start Num: 99

Candidate Starts for Commandaria\_26:

(Start: 99 @13436 has 202 MA's), (184, 13586), (200, 13643), (207, 13670), (212, 13682), (216, 13712), (219, 13721), (230, 13802), (241, 13862), (297, 14039), (317, 14144), (323, 14171), (343, 14255), (367, 14339), (371, 14351), (380, 14384), (405, 14462), (476, 14645), (492, 14708), (498, 14735), (506, 14759), (518, 14807), (523, 14816), (547, 14882), (567, 14930), (611, 15026), (619, 15062), (621, 15068), (629, 15098), (650, 15137),

Gene: Commander\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Commander\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Community\_3 Start: 1606, Stop: 3312, Start Num: 84

Candidate Starts for Community\_3:

(Start: 84 @1606 has 42 MA's), (265, 2035), (280, 2083), (305, 2173), (332, 2305), (344, 2347), (418, 2599), (464, 2722), (533, 2941), (545, 2977), (553, 2992), (599, 3127), (624, 3223), (627, 3235),

Gene: Conan\_7 Start: 2225, Stop: 3871, Start Num: 61

Candidate Starts for Conan\_7:

(Start: 57 @2216 has 2 MA's), (Start: 61 @2225 has 11 MA's), (Start: 64 @2228 has 1 MA's), (Start: 75 @2243 has 21 MA's), (189, 2447), (203, 2483), (Start: 218 @2528 has 2 MA's), (246, 2621), (250, 2636), (255, 2663), (259, 2672), (266, 2684), (296, 2771), (304, 2819), (Start: 313 @2867 has 1 MA's), (338, 2966), (351, 3005), (389, 3119), (395, 3140), (405, 3179), (441, 3260), (464, 3329), (466, 3335), (470, 3350), (494, 3413), (532, 3545), (545, 3587), (558, 3614), (563, 3632), (595, 3680), (624, 3788),

Gene: ConceptII\_11 Start: 7225, Stop: 8913, Start Num: 62

Candidate Starts for ConceptII\_11:

(Start: 62 @7225 has 371 MA's), (213, 7489), (215, 7513), (265, 7675), (274, 7708), (299, 7783), (Start: 313 @7873 has 1 MA's), (319, 7897), (327, 7924), (337, 7972), (379, 8128), (392, 8188), (472, 8413), (477, 8422), (481, 8434), (498, 8476), (505, 8497), (515, 8524), (545, 8632), (594, 8722), (621, 8827),

Gene: Confidence\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for Confidence\_2:

(Start: 70 @485 has 45 MA's), (145, 623), (201, 782), (203, 797), (228, 881), (239, 911), (243, 923), (246, 932), (254, 971), (265, 992), (295, 1076), (306, 1148), (316, 1184), (325, 1220), (345, 1310), (350, 1331), (362, 1382), (371, 1415), (439, 1589), (456, 1616), (472, 1685), (475, 1691), (494, 1757), (497, 1769), (506, 1796), (533, 1907), (539, 1943), (545, 1955), (558, 1979), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627, 2207), (632, 2222), (634, 2225), (656, 2270), (658, 2273),

Gene: Connomayer\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Connomayer\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Conquerage\_13 Start: 8154, Stop: 9926, Start Num: 75

Candidate Starts for Conquerage\_13:

(Start: 63 @8139 has 231 MA's), (Start: 75 @8154 has 21 MA's), (Start: 80 @8160 has 5 MA's), (143, 8271), (173, 8370), (225, 8532), (248, 8604), (265, 8658), (276, 8697), (299, 8769), (Start: 313 @8859 has 1 MA's), (319, 8883), (351, 9000), (357, 9015), (382, 9123), (400, 9198), (408, 9234), (423, 9294), (468, 9414), (475, 9435), (494, 9474), (511, 9528), (512, 9531), (516, 9549), (531, 9603), (539, 9633), (545, 9645), (594, 9735), (600, 9753), (636, 9882), (654, 9909), (656, 9912),

Gene: Conspiracy\_9 Start: 5979, Stop: 7757, Start Num: 37

Candidate Starts for Conspiracy\_9:

(Start: 37 @5979 has 19 MA's), (Start: 42 @6006 has 30 MA's), (73, 6075), (97, 6114), (140, 6189), (143, 6195), (203, 6327), (225, 6402), (226, 6405), (269, 6540), (284, 6579), (291, 6603), (Start: 313 @6711 has 1 MA's), (324, 6756), (342, 6834), (344, 6840), (385, 7005), (395, 7038), (401, 7059), (464, 7233), (471, 7257), (472, 7260), (498, 7320), (502, 7332), (511, 7359), (516, 7380), (539, 7464), (545, 7476), (636, 7713), (658, 7746), (660, 7752),

Gene: Coog\_9 Start: 6156, Stop: 7907, Start Num: 42

Candidate Starts for Coog\_9:

(Start: 37 @6129 has 19 MA's), (Start: 42 @6156 has 30 MA's), (73, 6225), (140, 6339), (143, 6345), (203, 6477), (225, 6552), (226, 6555), (238, 6588), (248, 6621), (284, 6729), (291, 6753), (299, 6786), (Start: 313 @6861 has 1 MA's), (324, 6906), (342, 6984), (344, 6990), (385, 7155), (395, 7188), (401, 7209), (464, 7383), (471, 7407), (472, 7410), (498, 7470), (502, 7482), (511, 7509), (516, 7530), (539, 7614), (545, 7626), (636, 7863), (658, 7896), (660, 7902),

Gene: Cookiedough\_15 Start: 7523, Stop: 9277, Start Num: 63

Candidate Starts for Cookiedough\_15:

(Start: 63 @7523 has 231 MA's), (173, 7754), (189, 7805), (203, 7841), (225, 7916), (265, 8039), (276, 8078), (299, 8147), (303, 8171), (304, 8174), (Start: 313 @8237 has 1 MA's), (319, 8261), (356, 8390), (357, 8393), (383, 8504), (432, 8666), (464, 8753), (468, 8765), (471, 8777), (494, 8825), (498, 8840), (511, 8879), (516, 8900), (539, 8984), (545, 8996), (636, 9233), (654, 9260), (656, 9263),

Gene: Corazon\_33 Start: 11073, Stop: 12815, Start Num: 101

Candidate Starts for Corazon\_33:

(Start: 101 @11073 has 80 MA's), (175, 11190), (189, 11235), (206, 11301), (208, 11316), (215, 11349), (216, 11352), (221, 11367), (226, 11391), (227, 11394), (238, 11424), (244, 11445), (246, 11463), (249, 11472), (256, 11508), (265, 11523), (278, 11568), (296, 11610), (301, 11649), (305, 11661), (307, 11682), (320, 11733), (327, 11754), (388, 11976), (412, 12081), (414, 12090), (447, 12123), (455, 12144), (456, 12147), (460, 12174), (464, 12204), (468, 12216), (472, 12231), (477, 12240), (479, 12246), (493, 12288), (495, 12297), (500, 12312), (505, 12327), (523, 12387), (531, 12426), (540, 12459), (556, 12489), (557, 12492), (583, 12576), (599, 12630), (604, 12645), (612, 12672), (624, 12726), (654, 12798), (656, 12801),

Gene: Corium\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Corium\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Cornie\_2 Start: 553, Stop: 2274, Start Num: 101

Candidate Starts for Cornie\_2:

(Start: 101 @553 has 80 MA's), (Start: 137 @604 has 1 MA's), (143, 616), (Start: 148 @628 has 2 MA's), (154, 643), (175, 664), (192, 718), (201, 733), (203, 748), (204, 751), (216, 787), (219, 796), (225, 823), (226, 826), (245, 892), (248, 901), (250, 910), (259, 946), (261, 949), (265, 955), (266, 958), (270, 970), (282, 1009), (283, 1012), (299, 1063), (307, 1114), (Start: 313 @1138 has 1 MA's), (335, 1225), (349, 1279), (362, 1330), (367, 1351), (372, 1366), (383, 1405), (384, 1408), (388, 1438), (389, 1444), (412, 1543), (451, 1609), (458, 1651), (463, 1687), (477, 1726), (480, 1741), (498, 1828), (501, 1837), (504, 1846), (512, 1870), (528, 1942), (533, 1954), (559, 2023), (562, 2032), (596, 2083), (599, 2095), (600, 2098), (624, 2191), (625, 2194), (629, 2212),

Gene: Corvo\_11 Start: 7169, Stop: 8857, Start Num: 62

Candidate Starts for Corvo\_11:

(Start: 62 @7169 has 371 MA's), (Start: 179 @7349 has 2 MA's), (213, 7433), (219, 7469), (265, 7619), (299, 7727), (Start: 313 @7817 has 1 MA's), (319, 7841), (327, 7868), (337, 7916), (359, 7985), (375, 8060), (379, 8072), (392, 8132), (472, 8357), (477, 8366), (481, 8378), (498, 8420), (505, 8441), (515, 8468), (545, 8576), (594, 8666), (621, 8771),

Gene: CosmicBrownie\_2 Start: 690, Stop: 2330, Start Num: 150

Candidate Starts for CosmicBrownie\_2:

(Start: 101 @597 has 80 MA's), (Start: 150 @690 has 2 MA's), (152, 693), (189, 783), (194, 807), (204, 843), (205, 846), (224, 906), (241, 1014), (265, 1101), (293, 1188), (311, 1278), (321, 1320), (328, 1341), (336, 1377), (385, 1512), (386, 1518), (398, 1557), (412, 1626), (456, 1692), (457, 1704), (467, 1740), (482, 1788), (493, 1824), (511, 1881), (512, 1884), (522, 1944), (539, 2028), (600, 2154), (621, 2235), (636, 2277), (654, 2316),

Gene: CosmicSans\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for CosmicSans\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (463, 4308), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Cozz\_4 Start: 1113, Stop: 2792, Start Num: 101

Candidate Starts for Cozz\_4:

(Start: 101 @1113 has 80 MA's), (Start: 137 @1164 has 1 MA's), (147, 1185), (Start: 148 @1188 has 2 MA's), (177, 1230), (203, 1311), (224, 1377), (225, 1386), (246, 1458), (250, 1473), (259, 1509), (265, 1518), (278, 1569), (305, 1668), (316, 1722), (326, 1758), (362, 1902), (372, 1938), (383, 1977), (388, 2010), (401, 2058), (408, 2091), (412, 2115), (436, 2148), (455, 2181), (463, 2238), (466, 2247), (496, 2331), (505, 2358), (523, 2418), (556, 2514), (596, 2586), (599, 2598), (632, 2718), (656, 2778), (658, 2781),

Gene: Crater\_2 Start: 486, Stop: 2147, Start Num: 101

Candidate Starts for Crater\_2:

(34, 324), (39, 357), (41, 360), (46, 378), (56, 411), (60, 420), (Start: 83 @453 has 13 MA's), (Start: 101 @486 has 80 MA's), (Start: 137 @537 has 1 MA's), (143, 549), (154, 576), (201, 666), (224, 747), (225, 756), (226, 759), (238, 792), (250, 843), (259, 879), (261, 882), (265, 888), (270, 903), (271, 906), (276, 924), (282, 942), (299, 996), (307, 1047), (Start: 313 @1071 has 1 MA's), (335, 1158), (352, 1218), (357, 1227), (362, 1263), (372, 1299), (383, 1338), (384, 1341), (388, 1371), (430, 1503), (436, 1509), (460, 1572), (463, 1599), (471, 1626), (472, 1629), (479, 1644), (498, 1701), (511, 1740), (533, 1821), (542, 1851), (571, 1914), (599, 1962), (600, 1965), (624, 2058), (625, 2061), (629, 2079), (635, 2088), (640, 2100), (658, 2136),

Gene: Crewmate\_3 Start: 949, Stop: 2655, Start Num: 84

Candidate Starts for Crewmate\_3:

(Start: 84 @949 has 42 MA's), (Start: 99 @970 has 202 MA's), (Start: 148 @1060 has 2 MA's), (186, 1129), (247, 1321), (265, 1378), (280, 1426), (305, 1516), (316, 1570), (326, 1615), (344, 1690), (418, 1942), (523, 2245), (533, 2284), (545, 2320), (553, 2335), (599, 2470), (624, 2566), (627, 2578),

Gene: Crispicous1\_10 Start: 6453, Stop: 8141, Start Num: 62

Candidate Starts for Crispicous1\_10:

(Start: 62 @6453 has 371 MA's), (213, 6717), (215, 6741), (265, 6903), (274, 6936), (299, 7011), (Start: 313 @7101 has 1 MA's), (319, 7125), (327, 7152), (337, 7200), (359, 7269), (379, 7356), (392, 7416), (477, 7650), (481, 7662), (498, 7704), (505, 7725), (515, 7752), (545, 7860), (594, 7950), (621, 8055),

Gene: Croquant\_14 Start: 6955, Stop: 8655, Start Num: 65

Candidate Starts for Croquant\_14:

(Start: 65 @6955 has 85 MA's), (94, 7003), (175, 7138), (238, 7330), (265, 7417), (Start: 313 @7615 has 1 MA's), (335, 7705), (356, 7768), (392, 7930), (464, 8128), (471, 8152), (472, 8155), (498, 8218), (505, 8239), (516, 8278), (545, 8374), (569, 8428), (594, 8464), (636, 8611), (656, 8641), (658, 8644),

Gene: Crucio\_12 Start: 7386, Stop: 9173, Start Num: 63

Candidate Starts for Crucio\_12:

(Start: 63 @7386 has 231 MA's), (128, 7494), (138, 7515), (173, 7623), (225, 7785), (263, 7905), (265, 7908), (299, 8016), (Start: 313 @8106 has 1 MA's), (319, 8130), (351, 8247), (357, 8262), (433, 8562), (502, 8748), (511, 8775), (516, 8796), (545, 8892), (636, 9129), (654, 9156), (656, 9159),

Gene: Cruella\_12 Start: 6699, Stop: 8765, Start Num: 4

Candidate Starts for Cruella\_12:

(Start: 4 @6699 has 5 MA's), (7, 6756), (24, 6894), (29, 6924), (34, 6948), (79, 7065), (Start: 105 @7110 has 2 MA's), (138, 7173), (149, 7197), (167, 7221), (212, 7359), (214, 7374), (215, 7392), (216, 7395), (223, 7419), (225, 7437), (241, 7494), (242, 7497), (252, 7539), (262, 7566), (268, 7584), (274, 7611), (279, 7629), (281, 7632), (299, 7686), (317, 7770), (318, 7773), (322, 7794), (327, 7815), (345, 7887), (358, 7917), (367, 7968), (394, 8049), (404, 8082), (465, 8244), (502, 8346), (511, 8373), (514, 8382), (552, 8493), (591, 8556), (621, 8667), (624, 8676), (659, 8757),

Gene: Crumble\_2 Start: 573, Stop: 2210, Start Num: 99

Candidate Starts for Crumble\_2:

(Start: 99 @573 has 202 MA's), (Start: 105 @582 has 2 MA's), (Start: 115 @597 has 3 MA's), (Start: 127 @618 has 1 MA's), (Start: 134 @630 has 1 MA's), (Start: 144 @654 has 2 MA's), (146, 657), (185, 720), (200, 759), (222, 846), (233, 906), (241, 918), (245, 930), (248, 939), (249, 942), (252, 963), (258, 984), (267, 999), (282, 1056), (296, 1095), (306, 1164), (309, 1170), (317, 1200), (318, 1203), (319, 1212), (323, 1227), (327, 1245), (338, 1296), (364, 1389), (367, 1398), (417, 1569), (435, 1581), (464, 1665), (474, 1695), (476, 1698), (478, 1701), (498, 1758), (503, 1773), (505, 1779), (506, 1782), (511, 1797), (514, 1806), (532, 1875), (543, 1905), (547, 1914), (560, 1947), (576, 1980), (593, 2007), (605, 2040), (612, 2070), (617, 2091), (621, 2115), (624, 2124), (625, 2127), (650, 2184),

Gene: Cuco\_9 Start: 6160, Stop: 7938, Start Num: 37

Candidate Starts for Cuco\_9:

(Start: 37 @6160 has 19 MA's), (Start: 42 @6187 has 30 MA's), (73, 6256), (140, 6370), (143, 6376), (203, 6508), (225, 6583), (226, 6586), (238, 6619), (248, 6652), (284, 6760), (291, 6784), (299, 6817), (Start: 313 @6892 has 1 MA's), (324, 6937), (342, 7015), (344, 7021), (395, 7219), (401, 7240), (464, 7414), (471, 7438), (472, 7441), (498, 7501), (502, 7513), (511, 7540), (516, 7561), (539, 7645), (545, 7657), (636, 7894), (658, 7927), (660, 7933),

Gene: Cucurbita\_32 Start: 9972, Stop: 11720, Start Num: 102

Candidate Starts for Cucurbita\_32:

(Start: 102 @9972 has 27 MA's), (120, 10002), (187, 10131), (235, 10317), (241, 10356), (249, 10380), (254, 10410), (263, 10428), (271, 10455), (280, 10485), (326, 10677), (329, 10695), (370, 10857), (390, 10905), (396, 10920), (453, 11103), (455, 11109), (471, 11193), (501, 11280), (512, 11313), (541, 11427), (558, 11463), (569, 11487), (579, 11502), (640, 11676), (644, 11682),

Gene: Cueylyss\_11 Start: 7122, Stop: 8810, Start Num: 62

Candidate Starts for Cueylyss\_11:

(Start: 62 @7122 has 371 MA's), (213, 7386), (215, 7410), (265, 7572), (274, 7605), (299, 7680), (Start: 313 @7770 has 1 MA's), (319, 7794), (327, 7821), (337, 7869), (379, 8025), (392, 8085), (449, 8217), (472, 8310), (477, 8319), (481, 8331), (498, 8373), (505, 8394), (515, 8421), (545, 8529), (594, 8619), (621, 8724),

Gene: Cullens\_13 Start: 6955, Stop: 8655, Start Num: 65

Candidate Starts for Cullens\_13:

(Start: 65 @6955 has 85 MA's), (94, 7003), (175, 7138), (238, 7330), (265, 7417), (275, 7453), (Start: 313 @7615 has 1 MA's), (335, 7705), (356, 7768), (392, 7930), (464, 8128), (471, 8152), (472, 8155),

(498, 8218), (505, 8239), (516, 8278), (545, 8374), (569, 8428), (594, 8464), (636, 8611), (656, 8641), (658, 8644),

Gene: Culver\_30 Start: 8433, Stop: 10181, Start Num: 102

Candidate Starts for Culver\_30:

(Start: 102 @8433 has 27 MA's), (120, 8463), (186, 8589), (187, 8592), (224, 8706), (235, 8778), (241, 8817), (249, 8841), (263, 8889), (271, 8916), (326, 9138), (329, 9156), (370, 9318), (390, 9366), (396, 9381), (453, 9564), (455, 9570), (471, 9654), (501, 9741), (512, 9774), (541, 9888), (558, 9924), (569, 9948), (579, 9963), (640, 10137), (644, 10143),

Gene: Cyan\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for Cyan\_2:

(10, 242), (13, 251), (Start: 84 @533 has 42 MA's), (247, 905), (265, 962), (280, 1010), (305, 1100), (316, 1154), (344, 1274), (367, 1364), (418, 1526), (464, 1649), (545, 1904), (553, 1919), (576, 1973), (599, 2054), (620, 2138), (627, 2162),

Gene: D29\_13 Start: 7375, Stop: 9162, Start Num: 63

Candidate Starts for D29\_13:

(22, 7216), (26, 7243), (Start: 63 @7375 has 231 MA's), (128, 7483), (138, 7504), (160, 7570), (173, 7612), (203, 7699), (263, 7894), (265, 7897), (299, 8005), (Start: 313 @8095 has 1 MA's), (319, 8119), (344, 8218), (356, 8248), (357, 8251), (383, 8362), (433, 8551), (494, 8710), (498, 8725), (502, 8737), (511, 8764), (516, 8785), (539, 8869), (545, 8881), (594, 8971), (636, 9118), (654, 9145), (656, 9148),

Gene: D32\_15 Start: 7375, Stop: 9162, Start Num: 63

Candidate Starts for D32\_15:

(22, 7216), (26, 7243), (Start: 63 @7375 has 231 MA's), (128, 7483), (138, 7504), (160, 7570), (173, 7612), (203, 7699), (263, 7894), (265, 7897), (299, 8005), (Start: 313 @8095 has 1 MA's), (319, 8119), (344, 8218), (356, 8248), (357, 8251), (383, 8362), (433, 8551), (494, 8710), (498, 8725), (502, 8737), (511, 8764), (516, 8785), (539, 8869), (545, 8881), (594, 8971), (636, 9118), (654, 9145), (656, 9148),

Gene: DBQu4n\_15 Start: 7375, Stop: 9162, Start Num: 63

Candidate Starts for DBQu4n\_15:

(22, 7216), (26, 7243), (Start: 63 @7375 has 231 MA's), (128, 7483), (138, 7504), (160, 7570), (173, 7612), (203, 7699), (263, 7894), (265, 7897), (299, 8005), (Start: 313 @8095 has 1 MA's), (319, 8119), (344, 8218), (356, 8248), (357, 8251), (383, 8362), (433, 8551), (494, 8710), (498, 8725), (502, 8737), (511, 8764), (516, 8785), (539, 8869), (545, 8881), (594, 8971), (636, 9118), (654, 9145), (656, 9148),

Gene: DD5\_12 Start: 7704, Stop: 9392, Start Num: 62

Candidate Starts for DD5\_12:

(Start: 62 @7704 has 371 MA's), (213, 7968), (215, 7992), (265, 8154), (299, 8262), (Start: 313 @8352 has 1 MA's), (319, 8376), (327, 8403), (337, 8451), (359, 8520), (379, 8607), (382, 8616), (392, 8667), (477, 8901), (481, 8913), (498, 8955), (505, 8976), (515, 9003), (545, 9111), (594, 9201), (621, 9306),

Gene: DLane\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for DLane\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (570, 1982), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: DRBy19\_2 Start: 588, Stop: 2225, Start Num: 99

Candidate Starts for DRBy19\_2:

(Start: 99 @588 has 202 MA's), (109, 603), (Start: 115 @612 has 3 MA's), (118, 618), (Start: 134 @645 has 1 MA's), (Start: 144 @669 has 2 MA's), (146, 672), (185, 735), (189, 753), (200, 774), (222, 861), (223, 867), (233, 921), (241, 933), (245, 945), (248, 954), (249, 957), (252, 978), (258, 999), (282, 1071), (296, 1110), (306, 1179), (309, 1185), (317, 1215), (318, 1218), (319, 1227), (323, 1242), (327, 1260), (338, 1311), (367, 1413), (417, 1584), (435, 1596), (464, 1680), (474, 1710), (476, 1713), (478, 1716), (498, 1773), (503, 1788), (505, 1794), (506, 1797), (511, 1812), (514, 1821), (532, 1890), (543, 1920), (547, 1929), (560, 1962), (576, 1995), (593, 2022), (605, 2055), (611, 2082), (612, 2085), (617, 2106), (621, 2130), (624, 2139), (625, 2142), (650, 2199),

Gene: DS6A\_5 Start: 1816, Stop: 3612, Start Num: 57

Candidate Starts for DS6A\_5:

(Start: 57 @1816 has 2 MA's), (Start: 70 @1834 has 45 MA's), (186, 2068), (203, 2119), (215, 2155), (225, 2194), (238, 2236), (246, 2263), (248, 2269), (249, 2272), (265, 2323), (284, 2380), (285, 2383), (306, 2482), (Start: 313 @2509 has 1 MA's), (326, 2566), (374, 2758), (395, 2800), (439, 2920), (442, 2923), (456, 2947), (464, 2989), (472, 3016), (479, 3031), (501, 3121), (506, 3136), (507, 3139), (509, 3145), (521, 3205), (531, 3241), (533, 3247), (539, 3283), (540, 3286), (545, 3295), (572, 3352), (573, 3355), (575, 3358), (615, 3484), (621, 3520), (624, 3529), (627, 3541), (630, 3553), (634, 3559), (643, 3574),

Gene: DaHudson\_13 Start: 6949, Stop: 8649, Start Num: 65

Candidate Starts for DaHudson\_13:

(Start: 65 @6949 has 85 MA's), (94, 6997), (175, 7132), (238, 7324), (265, 7411), (Start: 313 @7609 has 1 MA's), (335, 7699), (356, 7762), (392, 7924), (464, 8122), (471, 8146), (472, 8149), (498, 8212), (505, 8233), (516, 8272), (545, 8368), (569, 8422), (594, 8458), (636, 8605), (656, 8635), (658, 8638),

Gene: DaVinci\_15 Start: 7534, Stop: 9288, Start Num: 63

Candidate Starts for DaVinci\_15:

(Start: 63 @7534 has 231 MA's), (173, 7765), (189, 7816), (203, 7852), (225, 7927), (265, 8050), (276, 8089), (299, 8158), (303, 8182), (304, 8185), (Start: 313 @8248 has 1 MA's), (319, 8272), (344, 8371), (345, 8374), (356, 8401), (357, 8404), (438, 8689), (468, 8776), (471, 8788), (498, 8851), (511, 8890), (516, 8911), (539, 8995), (545, 9007), (636, 9244), (654, 9271), (656, 9274),

Gene: DaddyRickover\_2 Start: 652, Stop: 2208, Start Num: 144

Candidate Starts for DaddyRickover\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Daenerys\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Daenerys\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771),

(505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Daishi\_12 Start: 5882, Stop: 7582, Start Num: 65

Candidate Starts for Daishi\_12:

(Start: 65 @5882 has 85 MA's), (94, 5930), (Start: 137 @6002 has 1 MA's), (175, 6065), (265, 6344), (Start: 313 @6542 has 1 MA's), (335, 6632), (356, 6695), (392, 6857), (464, 7055), (471, 7079), (472, 7082), (498, 7145), (502, 7157), (505, 7166), (511, 7184), (516, 7205), (545, 7301), (569, 7355), (594, 7391), (636, 7538), (656, 7568), (658, 7571),

Gene: Dalilpop\_29 Start: 14581, Stop: 16257, Start Num: 99

Candidate Starts for Dalilpop\_29:

(Start: 99 @14581 has 202 MA's), (184, 14731), (200, 14788), (207, 14815), (212, 14827), (216, 14857), (317, 15241), (323, 15268), (343, 15352), (367, 15436), (371, 15448), (380, 15481), (405, 15559), (448, 15640), (456, 15667), (464, 15709), (478, 15745), (488, 15775), (506, 15856), (511, 15871), (547, 15979), (591, 16054), (621, 16165), (629, 16195),

Gene: Dalmatian\_12 Start: 7536, Stop: 9323, Start Num: 63

Candidate Starts for Dalmatian\_12:

(Start: 63 @7536 has 231 MA's), (128, 7644), (138, 7665), (173, 7773), (225, 7935), (263, 8055), (265, 8058), (299, 8166), (Start: 313 @8256 has 1 MA's), (319, 8280), (351, 8397), (357, 8412), (433, 8712), (502, 8898), (511, 8925), (516, 8946), (545, 9042), (636, 9279), (654, 9306), (656, 9309),

Gene: Danforth\_8 Start: 5683, Stop: 7437, Start Num: 42

Candidate Starts for Danforth\_8:

(Start: 42 @5683 has 30 MA's), (Start: 54 @5725 has 7 MA's), (Start: 81 @5764 has 1 MA's), (143, 5872), (225, 6079), (291, 6280), (Start: 313 @6388 has 1 MA's), (344, 6517), (385, 6682), (395, 6715), (441, 6835), (464, 6910), (505, 7021), (511, 7039), (516, 7060), (531, 7114), (545, 7156), (599, 7261), (624, 7360), (636, 7393), (658, 7426), (660, 7432),

Gene: Dante\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Dante\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Danzina\_7 Start: 2576, Stop: 4222, Start Num: 59

Candidate Starts for Danzina\_7:

(Start: 59 @2576 has 85 MA's), (Start: 75 @2594 has 21 MA's), (189, 2798), (203, 2834), (255, 3014), (266, 3035), (282, 3080), (296, 3122), (307, 3194), (Start: 313 @3218 has 1 MA's), (338, 3317), (342, 3332), (351, 3356), (353, 3362), (405, 3530), (464, 3680), (470, 3701), (475, 3713), (502, 3791), (533, 3899), (545, 3938), (556, 3959), (558, 3965), (563, 3983), (624, 4139),

Gene: Daredevil\_12 Start: 5000, Stop: 6736, Start Num: 102

Candidate Starts for Daredevil\_12:

(Start: 102 @5000 has 27 MA's), (113, 5015), (143, 5072), (177, 5129), (221, 5261), (238, 5372), (249, 5408), (277, 5504), (Start: 313 @5648 has 1 MA's), (320, 5675), (329, 5723), (391, 5930), (404, 5975),

(455, 6128), (498, 6290), (523, 6371), (541, 6446), (579, 6518), (599, 6554), (609, 6590), (624, 6650),

Gene: Darrell\_14 Start: 8335, Stop: 10122, Start Num: 63

Candidate Starts for Darrell\_14:

(Start: 63 @8335 has 231 MA's), (Start: 75 @8350 has 21 MA's), (128, 8437), (143, 8467), (173, 8566), (189, 8617), (225, 8728), (248, 8800), (265, 8854), (276, 8893), (299, 8965), (Start: 313 @9055 has 1 MA's), (319, 9079), (357, 9211), (382, 9319), (400, 9394), (423, 9490), (475, 9631), (511, 9724), (512, 9727), (516, 9745), (531, 9799), (545, 9841), (569, 9895), (595, 9934), (600, 9949), (636, 10078), (654, 10105), (656, 10108),

Gene: DARTHPhader\_13 Start: 8323, Stop: 10107, Start Num: 63

Candidate Starts for DARTHPhader\_13:

(Start: 63 @8323 has 231 MA's), (Start: 80 @8344 has 5 MA's), (Start: 137 @8443 has 1 MA's), (143, 8455), (162, 8521), (173, 8554), (203, 8641), (248, 8785), (265, 8839), (276, 8878), (299, 8950), (Start: 313 @9040 has 1 MA's), (319, 9064), (344, 9163), (351, 9181), (357, 9196), (389, 9340), (464, 9583), (494, 9655), (498, 9670), (516, 9730), (545, 9826), (594, 9916), (635, 10060), (636, 10063), (654, 10090), (656, 10093), (658, 10096),

Gene: Darwin\_15 Start: 7903, Stop: 9510, Start Num: 127

Candidate Starts for Darwin\_15:

(Start: 127 @7903 has 1 MA's), (193, 8041), (202, 8071), (207, 8095), (215, 8137), (216, 8140), (223, 8164), (241, 8239), (242, 8242), (252, 8284), (262, 8311), (268, 8329), (274, 8356), (279, 8374), (281, 8377), (299, 8431), (317, 8515), (318, 8518), (322, 8539), (327, 8560), (345, 8632), (358, 8662), (367, 8713), (394, 8794), (465, 8989), (502, 9091), (511, 9118), (514, 9127), (552, 9238), (591, 9301), (621, 9412), (624, 9421), (659, 9502),

Gene: DatBoi\_13 Start: 6914, Stop: 8650, Start Num: 102

Candidate Starts for DatBoi\_13:

(Start: 102 @6914 has 27 MA's), (143, 6986), (215, 7157), (221, 7175), (238, 7286), (249, 7322), (277, 7418), (Start: 313 @7562 has 1 MA's), (320, 7589), (329, 7637), (391, 7844), (404, 7889), (422, 7970), (455, 8042), (541, 8360), (599, 8468), (624, 8564),

Gene: Dattran\_7 Start: 2377, Stop: 4023, Start Num: 59

Candidate Starts for Dattran\_7:

(Start: 59 @2377 has 85 MA's), (Start: 75 @2395 has 21 MA's), (189, 2599), (203, 2635), (255, 2815), (266, 2836), (296, 2923), (307, 2995), (Start: 313 @3019 has 1 MA's), (338, 3118), (342, 3133), (351, 3157), (353, 3163), (405, 3331), (425, 3391), (464, 3481), (470, 3502), (502, 3592), (516, 3640), (545, 3739), (556, 3760), (558, 3766), (563, 3784), (624, 3940),

Gene: Datway\_11 Start: 6893, Stop: 8590, Start Num: 62

Candidate Starts for Datway\_11:

(Start: 62 @6893 has 371 MA's), (Start: 81 @6917 has 1 MA's), (213, 7163), (239, 7268), (263, 7346), (265, 7349), (276, 7388), (299, 7457), (303, 7481), (Start: 313 @7547 has 1 MA's), (335, 7637), (379, 7802), (389, 7847), (401, 7889), (408, 7922), (438, 7988), (463, 8060), (464, 8063), (471, 8087), (498, 8153), (511, 8192), (516, 8213), (545, 8309), (635, 8543), (636, 8546), (656, 8576), (658, 8579),

Gene: Daudau\_6 Start: 2153, Stop: 3799, Start Num: 59

Candidate Starts for Daudau\_6:

(Start: 59 @2153 has 85 MA's), (213, 2423), (215, 2447), (Start: 218 @2456 has 2 MA's), (246, 2549), (255, 2591), (257, 2597), (266, 2612), (296, 2699), (307, 2771), (Start: 313 @2795 has 1 MA's), (330, 2864), (338, 2894), (347, 2930), (357, 2948), (396, 3071), (405, 3107), (409, 3125), (470, 3278), (502, 3368), (511, 3395), (545, 3515), (556, 3536), (563, 3560), (599, 3620), (624, 3716), (660, 3794),

Gene: DeadP\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for DeadP\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (248, 953), (249, 956), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Deano\_11 Start: 6890, Stop: 8587, Start Num: 62

Candidate Starts for Deano\_11:

(Start: 62 @6890 has 371 MA's), (Start: 81 @6914 has 1 MA's), (Start: 148 @7037 has 2 MA's), (196, 7127), (213, 7160), (238, 7259), (263, 7343), (265, 7346), (276, 7385), (299, 7454), (303, 7478), (Start: 313 @7544 has 1 MA's), (335, 7634), (379, 7799), (401, 7886), (408, 7919), (438, 7985), (463, 8057), (464, 8060), (471, 8084), (494, 8135), (498, 8150), (511, 8189), (516, 8210), (545, 8306), (636, 8543), (656, 8573), (658, 8576),

Gene: Deb65\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Deb65\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: DeerParkTS\_13 Start: 7485, Stop: 9272, Start Num: 63

Candidate Starts for DeerParkTS\_13:

(Start: 63 @7485 has 231 MA's), (128, 7593), (138, 7614), (160, 7680), (169, 7704), (173, 7722), (189, 7773), (203, 7809), (221, 7863), (263, 8004), (265, 8007), (299, 8115), (Start: 313 @8205 has 1 MA's), (319, 8229), (351, 8346), (357, 8361), (389, 8505), (433, 8661), (502, 8847), (511, 8874), (512, 8877), (516, 8895), (545, 8991), (636, 9228), (654, 9255), (656, 9258),

Gene: DekHockey33\_14 Start: 6808, Stop: 8505, Start Num: 63

Candidate Starts for DekHockey33\_14:

(Start: 63 @6808 has 231 MA's), (78, 6826), (175, 6988), (248, 7213), (265, 7267), (299, 7375), (304, 7402), (Start: 313 @7465 has 1 MA's), (319, 7489), (471, 8005), (498, 8068), (512, 8110), (545, 8224), (599, 8329), (636, 8461), (654, 8488), (656, 8491), (658, 8494),

Gene: Deloris\_13 Start: 7865, Stop: 9655, Start Num: 63

Candidate Starts for Deloris\_13:

(18, 7691), (Start: 63 @7865 has 231 MA's), (128, 7973), (138, 7994), (173, 8102), (182, 8126), (265, 8390), (299, 8498), (Start: 313 @8588 has 1 MA's), (319, 8612), (351, 8729), (357, 8744), (433, 9044), (502, 9230), (511, 9257), (516, 9278), (545, 9374), (636, 9611), (654, 9638), (656, 9641),

Gene: DelvinSonDorr\_14 Start: 7524, Stop: 9278, Start Num: 63

Candidate Starts for DelvinSonDorr\_14:

(Start: 63 @7524 has 231 MA's), (173, 7755), (189, 7806), (203, 7842), (225, 7917), (265, 8040), (276, 8079), (299, 8148), (303, 8172), (304, 8175), (Start: 313 @8238 has 1 MA's), (319, 8262), (344, 8361),

(345, 8364), (356, 8391), (357, 8394), (438, 8679), (468, 8766), (471, 8778), (498, 8841), (511, 8880), (516, 8901), (539, 8985), (545, 8997), (636, 9234), (654, 9261), (656, 9264),

Gene: Dexers\_5 Start: 2218, Stop: 3864, Start Num: 61

Candidate Starts for Dexers\_5:

(Start: 57 @2209 has 2 MA's), (Start: 61 @2218 has 11 MA's), (Start: 64 @2221 has 1 MA's), (Start: 75 @2236 has 21 MA's), (120, 2314), (189, 2440), (203, 2476), (Start: 218 @2521 has 2 MA's), (246, 2614), (250, 2629), (255, 2656), (259, 2665), (266, 2677), (296, 2764), (304, 2812), (Start: 313 @2860 has 1 MA's), (338, 2959), (351, 2998), (389, 3112), (395, 3133), (405, 3172), (441, 3253), (464, 3322), (466, 3328), (470, 3343), (494, 3406), (532, 3538), (545, 3580), (558, 3607), (563, 3625), (595, 3673), (624, 3781),

Gene: Dexes\_12 Start: 7609, Stop: 9297, Start Num: 62

Candidate Starts for Dexes\_12:

(Start: 62 @7609 has 371 MA's), (213, 7873), (215, 7897), (265, 8059), (274, 8092), (299, 8167), (Start: 313 @8257 has 1 MA's), (319, 8281), (327, 8308), (337, 8356), (379, 8512), (392, 8572), (477, 8806), (481, 8818), (498, 8860), (505, 8881), (515, 8908), (545, 9016), (594, 9106), (621, 9211),

Gene: Dhanush\_11 Start: 6887, Stop: 8584, Start Num: 62

Candidate Starts for Dhanush\_11:

(Start: 62 @6887 has 371 MA's), (Start: 81 @6911 has 1 MA's), (Start: 148 @7034 has 2 MA's), (196, 7124), (213, 7157), (238, 7256), (263, 7340), (265, 7343), (276, 7382), (299, 7451), (303, 7475), (Start: 313 @7541 has 1 MA's), (335, 7631), (379, 7796), (401, 7883), (408, 7916), (438, 7982), (463, 8054), (464, 8057), (471, 8081), (494, 8132), (498, 8147), (511, 8186), (516, 8207), (545, 8303), (636, 8540), (656, 8570), (658, 8573),

Gene: Diane\_6 Start: 2144, Stop: 3793, Start Num: 59

Candidate Starts for Diane\_6:

(Start: 59 @2144 has 85 MA's), (120, 2243), (182, 2342), (189, 2369), (213, 2417), (Start: 218 @2450 has 2 MA's), (250, 2558), (255, 2585), (266, 2606), (282, 2651), (296, 2693), (307, 2765), (Start: 313 @2789 has 1 MA's), (338, 2888), (347, 2924), (357, 2942), (395, 3062), (396, 3065), (405, 3101), (470, 3272), (475, 3284), (494, 3335), (511, 3389), (515, 3398), (545, 3509), (556, 3530), (563, 3554), (624, 3710), (660, 3788),

Gene: Dieselweasel\_13 Start: 6958, Stop: 8658, Start Num: 65

Candidate Starts for Dieselweasel\_13:

(Start: 65 @6958 has 85 MA's), (94, 7006), (175, 7141), (238, 7333), (265, 7420), (Start: 313 @7618 has 1 MA's), (335, 7708), (356, 7771), (392, 7933), (464, 8131), (471, 8155), (472, 8158), (498, 8221), (505, 8242), (516, 8281), (545, 8377), (569, 8431), (594, 8467), (636, 8614), (656, 8644), (658, 8647),

Gene: Dignity\_14 Start: 7832, Stop: 9619, Start Num: 63

Candidate Starts for Dignity\_14:

(Start: 63 @7832 has 231 MA's), (128, 7940), (138, 7961), (160, 8027), (161, 8033), (173, 8069), (182, 8093), (203, 8156), (263, 8351), (265, 8354), (299, 8462), (Start: 313 @8552 has 1 MA's), (319, 8576), (337, 8651), (351, 8693), (357, 8708), (433, 9008), (502, 9194), (511, 9221), (516, 9242), (545, 9338), (636, 9575), (656, 9605),

Gene: DillTech15\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for DillTech15\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323,

1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Dinger\_8 Start: 3152, Stop: 4834, Start Num: 66

Candidate Starts for Dinger\_8:

(Start: 66 @3152 has 35 MA's), (Start: 179 @3338 has 2 MA's), (203, 3410), (213, 3422), (219, 3458), (269, 3626), (291, 3686), (Start: 313 @3794 has 1 MA's), (377, 4049), (395, 4121), (456, 4265), (464, 4307), (475, 4340), (498, 4397), (502, 4409), (545, 4553), (563, 4598), (599, 4658), (624, 4757), (636, 4790), (654, 4817), (656, 4820), (658, 4823),

Gene: DirtDevil\_12 Start: 7559, Stop: 9247, Start Num: 62

Candidate Starts for DirtDevil\_12:

(Start: 62 @7559 has 371 MA's), (Start: 179 @7739 has 2 MA's), (213, 7823), (219, 7859), (225, 7886), (265, 8009), (274, 8042), (299, 8117), (Start: 313 @8207 has 1 MA's), (319, 8231), (327, 8258), (337, 8306), (359, 8375), (375, 8450), (379, 8462), (382, 8471), (392, 8522), (472, 8747), (477, 8756), (481, 8768), (498, 8810), (505, 8831), (515, 8858), (545, 8966), (594, 9056), (621, 9161),

Gene: DirtyDunning\_11 Start: 6880, Stop: 8577, Start Num: 62

Candidate Starts for DirtyDunning\_11:

(Start: 62 @6880 has 371 MA's), (Start: 81 @6904 has 1 MA's), (Start: 148 @7027 has 2 MA's), (196, 7117), (213, 7150), (238, 7249), (263, 7333), (265, 7336), (276, 7375), (299, 7444), (303, 7468), (Start: 313 @7534 has 1 MA's), (335, 7624), (379, 7789), (401, 7876), (408, 7909), (438, 7975), (463, 8047), (464, 8050), (471, 8074), (494, 8125), (498, 8140), (511, 8179), (516, 8200), (545, 8296), (636, 8533), (656, 8563), (658, 8566),

Gene: Discoknowium\_9 Start: 6269, Stop: 8047, Start Num: 37

Candidate Starts for Discoknowium\_9:

(Start: 37 @6269 has 19 MA's), (Start: 42 @6296 has 30 MA's), (73, 6365), (140, 6479), (143, 6485), (203, 6617), (225, 6692), (226, 6695), (284, 6869), (291, 6893), (Start: 313 @7001 has 1 MA's), (324, 7046), (342, 7124), (344, 7130), (345, 7133), (385, 7295), (386, 7301), (395, 7328), (401, 7349), (464, 7523), (471, 7547), (472, 7550), (498, 7610), (502, 7622), (511, 7649), (516, 7670), (531, 7724), (539, 7754), (545, 7766), (636, 8003), (658, 8036), (660, 8042),

Gene: Dixon\_9 Start: 5702, Stop: 7456, Start Num: 42

Candidate Starts for Dixon\_9:

(Start: 42 @5702 has 30 MA's), (Start: 54 @5744 has 7 MA's), (Start: 81 @5783 has 1 MA's), (143, 5891), (225, 6098), (291, 6299), (Start: 313 @6407 has 1 MA's), (344, 6536), (385, 6701), (395, 6734), (441, 6854), (464, 6929), (505, 7040), (511, 7058), (516, 7079), (531, 7133), (545, 7175), (576, 7244), (599, 7280), (624, 7379), (636, 7412), (658, 7445), (660, 7451),

Gene: DoRead\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for DoRead\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (251, 968), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Donkey\_2 Start: 593, Stop: 2281, Start Num: 90

Candidate Starts for Donkey\_2:

(Start: 90 @593 has 17 MA's), (201, 794), (243, 938), (250, 962), (265, 1007), (295, 1094), (305, 1148), (312, 1187), (344, 1322), (371, 1424), (409, 1535), (453, 1646), (464, 1697), (545, 1952), (553, 1967), (624, 2192), (627, 2204), (634, 2219),

Gene: Donkeykong\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Donkeykong\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: DontArgue\_10 Start: 4944, Stop: 6635, Start Num: 62

Candidate Starts for DontArgue\_10:

(Start: 62 @4944 has 371 MA's), (Start: 81 @4968 has 1 MA's), (189, 5175), (203, 5211), (213, 5223), (239, 5328), (250, 5364), (265, 5409), (276, 5448), (296, 5496), (299, 5517), (303, 5541), (Start: 313 @5592 has 1 MA's), (397, 5922), (408, 5967), (464, 6108), (498, 6198), (502, 6210), (511, 6237), (516, 6258), (545, 6354), (636, 6591), (656, 6621), (658, 6624),

Gene: Doom\_11 Start: 7247, Stop: 8935, Start Num: 62

Candidate Starts for Doom\_11:

(Start: 62 @7247 has 371 MA's), (213, 7511), (215, 7535), (265, 7697), (274, 7730), (299, 7805), (Start: 313 @7895 has 1 MA's), (319, 7919), (327, 7946), (337, 7994), (359, 8063), (379, 8150), (392, 8210), (477, 8444), (481, 8456), (498, 8498), (505, 8519), (515, 8546), (545, 8654), (594, 8744), (621, 8849),

Gene: Doomphist\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Doomphist\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Dorothea\_15 Start: 7533, Stop: 9287, Start Num: 63

Candidate Starts for Dorothea\_15:

(Start: 63 @7533 has 231 MA's), (173, 7764), (189, 7815), (203, 7851), (225, 7926), (265, 8049), (276, 8088), (299, 8157), (303, 8181), (304, 8184), (Start: 313 @8247 has 1 MA's), (319, 8271), (344, 8370), (345, 8373), (356, 8400), (357, 8403), (438, 8688), (468, 8775), (471, 8787), (498, 8850), (511, 8889), (516, 8910), (539, 8994), (545, 9006), (636, 9243), (654, 9270), (656, 9273),

Gene: Dorothy\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Dorothy\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245,

928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: DotProduct\_2 Start: 588, Stop: 2225, Start Num: 99

Candidate Starts for DotProduct\_2:

(Start: 99 @588 has 202 MA's), (109, 603), (Start: 115 @612 has 3 MA's), (118, 618), (Start: 134 @645 has 1 MA's), (Start: 144 @669 has 2 MA's), (146, 672), (185, 735), (189, 753), (200, 774), (222, 861), (223, 867), (233, 921), (241, 933), (245, 945), (248, 954), (249, 957), (252, 978), (258, 999), (267, 1014), (282, 1071), (296, 1110), (306, 1179), (309, 1185), (317, 1215), (318, 1218), (319, 1227), (323, 1242), (327, 1260), (338, 1311), (367, 1413), (417, 1584), (435, 1596), (450, 1614), (464, 1680), (474, 1710), (476, 1713), (478, 1716), (498, 1773), (503, 1788), (505, 1794), (506, 1797), (511, 1812), (514, 1821), (532, 1890), (543, 1920), (547, 1929), (560, 1962), (576, 1995), (593, 2022), (605, 2055), (611, 2082), (612, 2085), (617, 2106), (621, 2130), (624, 2139), (625, 2142), (650, 2199),

Gene: Doug\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Doug\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (153, 674), (185, 719), (200, 758), (222, 845), (223, 851), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: DrFeelGood\_10 Start: 6771, Stop: 8459, Start Num: 62

Candidate Starts for DrFeelGood\_10:

(Start: 62 @6771 has 371 MA's), (213, 7035), (215, 7059), (265, 7221), (274, 7254), (299, 7329), (Start: 313 @7419 has 1 MA's), (319, 7443), (327, 7470), (337, 7518), (359, 7587), (379, 7674), (392, 7734), (472, 7959), (477, 7968), (481, 7980), (498, 8022), (505, 8043), (515, 8070), (545, 8178), (594, 8268), (621, 8373),

Gene: DrManhattan\_2 Start: 534, Stop: 2240, Start Num: 87

Candidate Starts for DrManhattan\_2:

(10, 240), (11, 243), (Start: 87 @534 has 7 MA's), (Start: 99 @555 has 202 MA's), (Start: 137 @621 has 1 MA's), (247, 906), (265, 963), (305, 1101), (308, 1125), (316, 1155), (326, 1200), (344, 1275), (409, 1488), (418, 1527), (533, 1869), (545, 1905), (553, 1920), (559, 1938), (599, 2055), (609, 2091), (624, 2151), (627, 2163),

Gene: DrSierra\_2 Start: 548, Stop: 2254, Start Num: 84

Candidate Starts for DrSierra\_2:

(Start: 84 @548 has 42 MA's), (Start: 99 @569 has 202 MA's), (126, 614), (265, 977), (280, 1025), (305, 1115), (344, 1289), (409, 1502), (418, 1541), (464, 1664), (494, 1748), (533, 1883), (545, 1919), (553, 1934), (599, 2069), (624, 2165), (627, 2177),

Gene: Drake55\_14 Start: 7940, Stop: 9727, Start Num: 63

Candidate Starts for Drake55\_14:

(16, 7754), (35, 7856), (Start: 63 @7940 has 231 MA's), (128, 8048), (138, 8069), (173, 8177), (265, 8462), (299, 8570), (Start: 313 @8660 has 1 MA's), (319, 8684), (351, 8801), (357, 8816), (464, 9203),

(511, 9329), (516, 9350), (539, 9434), (545, 9446), (636, 9683), (654, 9710), (656, 9713), (658, 9716), (659, 9719),

Gene: Drake94\_10 Start: 4774, Stop: 6465, Start Num: 62

Candidate Starts for Drake94\_10:

(Start: 62 @4774 has 371 MA's), (Start: 81 @4798 has 1 MA's), (186, 4990), (203, 5041), (213, 5053), (221, 5095), (225, 5116), (250, 5194), (265, 5239), (276, 5278), (296, 5326), (299, 5347), (303, 5371), (Start: 313 @5422 has 1 MA's), (344, 5545), (384, 5692), (397, 5752), (408, 5797), (464, 5938), (484, 5992), (498, 6028), (511, 6067), (516, 6088), (545, 6184), (576, 6253), (636, 6421), (656, 6451), (658, 6454),

Gene: Dre3\_4 Start: 1229, Stop: 2923, Start Num: 101

Candidate Starts for Dre3\_4:

(Start: 101 @1229 has 80 MA's), (120, 1259), (143, 1292), (147, 1301), (203, 1439), (250, 1601), (252, 1616), (265, 1646), (270, 1667), (278, 1697), (299, 1766), (301, 1784), (305, 1796), (307, 1817), (326, 1886), (335, 1928), (383, 2105), (391, 2156), (408, 2219), (412, 2243), (436, 2276), (454, 2309), (466, 2378), (493, 2453), (495, 2462), (498, 2471), (502, 2483), (504, 2489), (511, 2510), (556, 2648), (611, 2771), (632, 2852), (656, 2909), (658, 2912),

Gene: DreamCatcher\_14 Start: 8201, Stop: 9889, Start Num: 70

Candidate Starts for DreamCatcher\_14:

(Start: 70 @8201 has 45 MA's), (Start: 179 @8381 has 2 MA's), (213, 8465), (216, 8492), (219, 8501), (265, 8651), (274, 8684), (299, 8759), (Start: 313 @8849 has 1 MA's), (319, 8873), (337, 8948), (359, 9017), (379, 9104), (382, 9113), (392, 9164), (477, 9398), (481, 9410), (498, 9452), (505, 9473), (515, 9500), (545, 9608), (594, 9698), (621, 9803),

Gene: DreamTeam1\_12 Start: 6308, Stop: 8080, Start Num: 75

Candidate Starts for DreamTeam1\_12:

(Start: 63 @6296 has 231 MA's), (Start: 75 @6308 has 21 MA's), (143, 6425), (173, 6524), (223, 6674), (225, 6686), (248, 6758), (265, 6812), (276, 6851), (299, 6923), (310, 6995), (Start: 313 @7013 has 1 MA's), (319, 7037), (351, 7154), (357, 7169), (382, 7277), (400, 7352), (423, 7448), (475, 7589), (494, 7628), (511, 7682), (512, 7685), (516, 7703), (531, 7757), (539, 7787), (545, 7799), (594, 7889), (600, 7907), (636, 8036), (654, 8063), (656, 8066),

Gene: Dreamboat\_12 Start: 6899, Stop: 8587, Start Num: 62

Candidate Starts for Dreamboat\_12:

(Start: 62 @6899 has 371 MA's), (Start: 179 @7079 has 2 MA's), (213, 7163), (219, 7199), (265, 7349), (299, 7457), (Start: 313 @7547 has 1 MA's), (319, 7571), (337, 7646), (359, 7715), (379, 7802), (392, 7862), (477, 8096), (481, 8108), (498, 8150), (505, 8171), (515, 8198), (545, 8306), (594, 8396), (621, 8501),

Gene: DroogsArmy\_12 Start: 8069, Stop: 9763, Start Num: 62

Candidate Starts for DroogsArmy\_12:

(Start: 62 @8069 has 371 MA's), (168, 8237), (189, 8288), (213, 8336), (225, 8399), (238, 8435), (248, 8468), (257, 8510), (265, 8522), (269, 8537), (276, 8561), (299, 8630), (Start: 313 @8720 has 1 MA's), (316, 8729), (357, 8876), (379, 8975), (391, 9032), (401, 9062), (463, 9233), (464, 9236), (471, 9260), (472, 9263), (501, 9335), (545, 9482), (558, 9509), (569, 9536), (625, 9689), (636, 9719), (656, 9749),

Gene: DropBear\_11 Start: 6556, Stop: 8253, Start Num: 62

Candidate Starts for DropBear\_11:

(Start: 62 @6556 has 371 MA's), (Start: 81 @6580 has 1 MA's), (109, 6628), (213, 6826), (225, 6889), (257, 7000), (265, 7012), (276, 7051), (283, 7063), (299, 7120), (303, 7144), (Start: 313 @7210 has 1 MA's), (316, 7219), (335, 7300), (342, 7327), (379, 7465), (401, 7552), (438, 7651), (464, 7726), (471,

7750), (472, 7753), (475, 7759), (479, 7768), (498, 7816), (516, 7876), (545, 7972), (563, 8017), (569, 8026), (625, 8179), (636, 8209), (656, 8239), (658, 8242),

Gene: Druantia\_11 Start: 6885, Stop: 8582, Start Num: 62

Candidate Starts for Druantia\_11:

(Start: 62 @6885 has 371 MA's), (Start: 81 @6909 has 1 MA's), (Start: 148 @7032 has 2 MA's), (196, 7122), (213, 7155), (238, 7254), (263, 7338), (265, 7341), (276, 7380), (299, 7449), (303, 7473), (Start: 313 @7539 has 1 MA's), (335, 7629), (379, 7794), (401, 7881), (408, 7914), (438, 7980), (463, 8052), (464, 8055), (471, 8079), (494, 8130), (498, 8145), (511, 8184), (516, 8205), (545, 8301), (636, 8538), (656, 8568), (658, 8571),

Gene: Dublin\_8 Start: 6128, Stop: 7906, Start Num: 37

Candidate Starts for Dublin\_8:

(Start: 37 @6128 has 19 MA's), (Start: 42 @6155 has 30 MA's), (73, 6224), (140, 6338), (143, 6344), (203, 6476), (225, 6551), (226, 6554), (238, 6587), (248, 6620), (284, 6728), (291, 6752), (299, 6785), (Start: 313 @6860 has 1 MA's), (324, 6905), (342, 6983), (344, 6989), (385, 7154), (395, 7187), (401, 7208), (464, 7382), (471, 7406), (472, 7409), (498, 7469), (502, 7481), (511, 7508), (516, 7529), (539, 7613), (545, 7625), (595, 7718), (636, 7862), (658, 7895), (660, 7901),

Gene: Dubu\_2 Start: 550, Stop: 2163, Start Num: 119

Candidate Starts for Dubu\_2:

(Start: 119 @550 has 1 MA's), (132, 574), (177, 643), (188, 676), (201, 727), (204, 745), (211, 751), (226, 820), (241, 916), (245, 940), (252, 973), (265, 1003), (273, 1033), (284, 1054), (286, 1060), (296, 1087), (311, 1174), (Start: 313 @1183 has 1 MA's), (317, 1195), (321, 1216), (327, 1231), (347, 1306), (373, 1384), (409, 1492), (452, 1585), (455, 1600), (486, 1708), (502, 1765), (515, 1801), (529, 1834), (538, 1870), (555, 1903), (604, 2008), (619, 2071), (621, 2077), (622, 2080), (643, 2131), (656, 2152),

Gene: DudeLittle\_12 Start: 7538, Stop: 9325, Start Num: 63

Candidate Starts for DudeLittle\_12:

(Start: 63 @7538 has 231 MA's), (128, 7646), (138, 7667), (173, 7775), (225, 7937), (263, 8057), (265, 8060), (299, 8168), (Start: 313 @8258 has 1 MA's), (319, 8282), (351, 8399), (357, 8414), (433, 8714), (502, 8900), (511, 8927), (516, 8948), (545, 9044), (636, 9281), (654, 9308), (656, 9311),

Gene: Dulcie\_10 Start: 6646, Stop: 8334, Start Num: 62

Candidate Starts for Dulcie\_10:

(Start: 62 @6646 has 371 MA's), (213, 6910), (215, 6934), (265, 7096), (274, 7129), (299, 7204), (Start: 313 @7294 has 1 MA's), (319, 7318), (327, 7345), (337, 7393), (342, 7411), (359, 7462), (379, 7549), (392, 7609), (477, 7843), (481, 7855), (498, 7897), (505, 7918), (515, 7945), (545, 8053), (594, 8143), (621, 8248),

Gene: Duplo\_15 Start: 7416, Stop: 9203, Start Num: 63

Candidate Starts for Duplo\_15:

(22, 7257), (26, 7284), (Start: 63 @7416 has 231 MA's), (128, 7524), (138, 7545), (160, 7611), (173, 7653), (203, 7740), (263, 7935), (265, 7938), (299, 8046), (Start: 313 @8136 has 1 MA's), (319, 8160), (344, 8259), (356, 8289), (357, 8292), (383, 8403), (433, 8592), (494, 8751), (498, 8766), (502, 8778), (511, 8805), (516, 8826), (539, 8910), (545, 8922), (594, 9012), (636, 9159), (654, 9186), (656, 9189),

Gene: Dussy\_12 Start: 7007, Stop: 8695, Start Num: 62

Candidate Starts for Dussy\_12:

(Start: 62 @7007 has 371 MA's), (Start: 179 @7187 has 2 MA's), (213, 7271), (219, 7307), (225, 7334), (265, 7457), (299, 7565), (Start: 313 @7655 has 1 MA's), (319, 7679), (327, 7706), (337, 7754), (359, 7823), (379, 7910), (392, 7970), (472, 8195), (477, 8204), (481, 8216), (498, 8258), (505, 8279), (515, 8306), (545, 8414), (594, 8504), (621, 8609),

Gene: Dusty\_29 Start: 8433, Stop: 10181, Start Num: 102

Candidate Starts for Dusty\_29:

(Start: 102 @8433 has 27 MA's), (120, 8463), (186, 8589), (187, 8592), (224, 8706), (235, 8778), (241, 8817), (249, 8841), (263, 8889), (271, 8916), (326, 9138), (329, 9156), (370, 9318), (390, 9366), (396, 9381), (453, 9564), (455, 9570), (471, 9654), (501, 9741), (512, 9774), (541, 9888), (558, 9924), (569, 9948), (579, 9963), (640, 10137), (644, 10143),

Gene: DustyMartin\_14 Start: 6755, Stop: 8446, Start Num: 62

Candidate Starts for DustyMartin\_14:

(Start: 62 @6755 has 371 MA's), (Start: 81 @6779 has 1 MA's), (Start: 148 @6902 has 2 MA's), (185, 6968), (203, 7022), (213, 7034), (222, 7079), (238, 7133), (246, 7160), (250, 7175), (265, 7220), (276, 7259), (296, 7307), (299, 7328), (303, 7352), (Start: 313 @7403 has 1 MA's), (344, 7526), (384, 7673), (397, 7733), (408, 7778), (438, 7844), (464, 7919), (471, 7943), (498, 8009), (516, 8069), (545, 8165), (569, 8219), (636, 8402), (656, 8432), (658, 8435),

Gene: Dwayne\_6 Start: 2377, Stop: 4023, Start Num: 59

Candidate Starts for Dwayne\_6:

(Start: 59 @2377 has 85 MA's), (Start: 75 @2395 has 21 MA's), (Start: 150 @2527 has 2 MA's), (189, 2599), (203, 2635), (255, 2815), (266, 2836), (282, 2881), (296, 2923), (307, 2995), (Start: 313 @3019 has 1 MA's), (338, 3118), (342, 3133), (351, 3157), (353, 3163), (405, 3331), (464, 3481), (470, 3502), (494, 3565), (502, 3592), (533, 3700), (545, 3739), (556, 3760), (558, 3766), (563, 3784), (609, 3880), (624, 3940), (660, 4018),

Gene: Dynamix\_12 Start: 7056, Stop: 8744, Start Num: 62

Candidate Starts for Dynamix\_12:

(Start: 62 @7056 has 371 MA's), (Start: 179 @7236 has 2 MA's), (213, 7320), (219, 7356), (225, 7383), (265, 7506), (299, 7614), (Start: 313 @7704 has 1 MA's), (319, 7728), (327, 7755), (337, 7803), (379, 7959), (391, 8016), (392, 8019), (477, 8253), (481, 8265), (498, 8307), (505, 8328), (515, 8355), (545, 8463), (594, 8553), (621, 8658),

Gene: ELB20\_05 Start: 2194, Stop: 3855, Start Num: 59

Candidate Starts for ELB20\_05:

(Start: 59 @2194 has 85 MA's), (186, 2416), (Start: 218 @2512 has 2 MA's), (246, 2605), (250, 2620), (255, 2647), (266, 2668), (296, 2755), (Start: 313 @2851 has 1 MA's), (321, 2884), (335, 2938), (344, 2971), (353, 2995), (368, 3064), (396, 3127), (397, 3133), (405, 3163), (444, 3247), (463, 3310), (464, 3313), (468, 3325), (470, 3334), (473, 3343), (494, 3397), (502, 3424), (545, 3571), (556, 3592), (563, 3616), (599, 3676), (624, 3772), (660, 3850),

Gene: EMSquaredA\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for EMSquaredA\_2:

(Start: 70 @485 has 45 MA's), (145, 623), (155, 650), (201, 782), (203, 797), (228, 881), (239, 911), (243, 923), (246, 932), (254, 971), (265, 992), (285, 1052), (295, 1076), (306, 1148), (316, 1184), (325, 1220), (345, 1310), (350, 1331), (361, 1376), (362, 1382), (366, 1400), (371, 1415), (439, 1589), (456, 1616), (472, 1685), (475, 1691), (494, 1757), (497, 1769), (506, 1796), (533, 1907), (539, 1943), (545, 1955), (549, 1961), (558, 1979), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627, 2207), (632, 2222), (656, 2270), (658, 2273),

Gene: EZMoney23\_16 Start: 9406, Stop: 11193, Start Num: 63

Candidate Starts for EZMoney23\_16:

(Start: 63 @9406 has 231 MA's), (128, 9514), (138, 9535), (173, 9643), (189, 9694), (203, 9730), (221, 9784), (263, 9925), (265, 9928), (276, 9967), (299, 10036), (Start: 313 @10126 has 1 MA's), (319, 10150), (357, 10282), (464, 10669), (502, 10768), (511, 10795), (516, 10816), (539, 10900), (545,

10912), (636, 11149), (654, 11176), (656, 11179), (658, 11182), (659, 11185),

Gene: Eagle\_10 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Eagle\_10:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: EagleEye\_14 Start: 7590, Stop: 9344, Start Num: 63

Candidate Starts for EagleEye\_14:

(Start: 63 @7590 has 231 MA's), (143, 7722), (173, 7821), (203, 7908), (225, 7983), (248, 8052), (263, 8103), (265, 8106), (299, 8214), (Start: 313 @8304 has 1 MA's), (319, 8328), (356, 8457), (357, 8460), (362, 8496), (433, 8736), (438, 8745), (464, 8820), (494, 8892), (498, 8907), (511, 8946), (516, 8967), (539, 9051), (545, 9063), (599, 9168), (621, 9258), (624, 9267), (636, 9300), (654, 9327), (656, 9330), (658, 9333), (659, 9336),

Gene: Eaglepride\_12 Start: 6703, Stop: 8379, Start Num: 62

Candidate Starts for Eaglepride\_12:

(Start: 62 @6703 has 371 MA's), (Start: 148 @6835 has 2 MA's), (189, 6919), (203, 6955), (213, 6967), (246, 7093), (265, 7153), (276, 7192), (296, 7240), (299, 7261), (303, 7285), (Start: 313 @7336 has 1 MA's), (344, 7459), (362, 7528), (397, 7666), (408, 7711), (438, 7777), (464, 7852), (471, 7876), (498, 7942), (502, 7954), (511, 7981), (516, 8002), (545, 8098), (576, 8167), (635, 8332), (636, 8335), (656, 8365), (658, 8368),

Gene: Eapen\_11 Start: 6886, Stop: 8583, Start Num: 62

Candidate Starts for Eapen\_11:

(Start: 62 @6886 has 371 MA's), (Start: 81 @6910 has 1 MA's), (Start: 148 @7033 has 2 MA's), (196, 7123), (213, 7156), (238, 7255), (263, 7339), (265, 7342), (276, 7381), (299, 7450), (303, 7474), (Start: 313 @7540 has 1 MA's), (335, 7630), (379, 7795), (401, 7882), (408, 7915), (438, 7981), (463, 8053), (464, 8056), (471, 8080), (494, 8131), (498, 8146), (511, 8185), (516, 8206), (545, 8302), (636, 8539), (656, 8569), (658, 8572),

Gene: Ebony\_12 Start: 8082, Stop: 9845, Start Num: 63

Candidate Starts for Ebony\_12:

(Start: 63 @8082 has 231 MA's), (Start: 80 @8103 has 5 MA's), (128, 8190), (173, 8319), (182, 8343), (203, 8406), (248, 8550), (263, 8601), (265, 8604), (299, 8715), (303, 8739), (304, 8742), (Start: 313 @8805 has 1 MA's), (316, 8814), (319, 8829), (351, 8946), (357, 8961), (368, 9021), (389, 9105), (468, 9333), (471, 9345), (494, 9393), (498, 9408), (511, 9447), (516, 9468), (527, 9507), (539, 9552), (545, 9564), (636, 9801), (654, 9828),

Gene: Echild\_12 Start: 7541, Stop: 9328, Start Num: 63

Candidate Starts for Echild\_12:

(18, 7367), (Start: 63 @7541 has 231 MA's), (128, 7649), (138, 7670), (173, 7778), (203, 7865), (263, 8060), (265, 8063), (299, 8171), (Start: 313 @8261 has 1 MA's), (319, 8285), (351, 8402), (357, 8417), (433, 8717), (502, 8903), (511, 8930), (516, 8951), (545, 9047), (636, 9284), (654, 9311), (656, 9314),

Gene: Eddasa\_7 Start: 2562, Stop: 4208, Start Num: 59

Candidate Starts for Eddasa\_7:

(Start: 59 @2562 has 85 MA's), (Start: 75 @2580 has 21 MA's), (189, 2784), (Start: 218 @2865 has 2 MA's), (255, 3000), (266, 3021), (282, 3066), (296, 3108), (307, 3180), (Start: 313 @3204 has 1 MA's), (335, 3291), (338, 3303), (357, 3357), (389, 3456), (405, 3516), (468, 3678), (470, 3687), (502, 3777),

(513, 3810), (532, 3882), (533, 3885), (545, 3924), (556, 3945), (558, 3951), (563, 3969), (609, 4065), (624, 4125),

Gene: Edison31\_11 Start: 6714, Stop: 8405, Start Num: 62

Candidate Starts for Edison31\_11:

(Start: 62 @6714 has 371 MA's), (Start: 81 @6738 has 1 MA's), (Start: 148 @6861 has 2 MA's), (203, 6981), (213, 6993), (222, 7038), (238, 7092), (246, 7119), (250, 7134), (265, 7179), (276, 7218), (296, 7266), (299, 7287), (303, 7311), (Start: 313 @7362 has 1 MA's), (344, 7485), (379, 7617), (397, 7692), (408, 7737), (438, 7803), (464, 7878), (471, 7902), (498, 7968), (511, 8007), (512, 8010), (516, 8028), (545, 8124), (576, 8193), (636, 8361), (656, 8391), (658, 8394),

Gene: EdogawaKiddo\_11 Start: 8124, Stop: 9896, Start Num: 75

Candidate Starts for EdogawaKiddo\_11:

(Start: 63 @8109 has 231 MA's), (Start: 75 @8124 has 21 MA's), (Start: 80 @8130 has 5 MA's), (143, 8241), (173, 8340), (225, 8502), (248, 8574), (265, 8628), (276, 8667), (299, 8739), (Start: 313 @8829 has 1 MA's), (319, 8853), (351, 8970), (357, 8985), (382, 9093), (400, 9168), (408, 9204), (423, 9264), (468, 9384), (475, 9405), (494, 9444), (511, 9498), (512, 9501), (516, 9519), (531, 9573), (539, 9603), (545, 9615), (594, 9705), (600, 9723), (636, 9852), (654, 9879), (656, 9882),

Gene: Edtherson\_12 Start: 7504, Stop: 9192, Start Num: 62

Candidate Starts for Edtherson\_12:

(Start: 62 @7504 has 371 MA's), (Start: 179 @7684 has 2 MA's), (213, 7768), (219, 7804), (225, 7831), (265, 7954), (274, 7987), (299, 8062), (Start: 313 @8152 has 1 MA's), (319, 8176), (327, 8203), (337, 8251), (375, 8395), (379, 8407), (392, 8467), (477, 8701), (481, 8713), (498, 8755), (505, 8776), (515, 8803), (545, 8911), (594, 9001), (621, 9106),

Gene: Eidsmoe\_13 Start: 8139, Stop: 9926, Start Num: 63

Candidate Starts for Eidsmoe\_13:

(Start: 63 @8139 has 231 MA's), (Start: 75 @8154 has 21 MA's), (Start: 80 @8160 has 5 MA's), (143, 8271), (173, 8370), (225, 8532), (248, 8604), (265, 8658), (276, 8697), (299, 8769), (Start: 313 @8859 has 1 MA's), (319, 8883), (351, 9000), (357, 9015), (382, 9123), (400, 9198), (408, 9234), (423, 9294), (468, 9414), (475, 9435), (494, 9474), (511, 9528), (512, 9531), (516, 9549), (531, 9603), (539, 9633), (545, 9645), (594, 9735), (600, 9753), (636, 9882), (654, 9909), (656, 9912),

Gene: Eish\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Eish\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (450, 1598), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (569, 1964), (576, 1979), (593, 2006), (605, 2039), (609, 2060), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Ejemplo\_6 Start: 2380, Stop: 4026, Start Num: 59

Candidate Starts for Ejemplo\_6:

(Start: 59 @2380 has 85 MA's), (Start: 75 @2398 has 21 MA's), (189, 2602), (203, 2638), (255, 2818), (266, 2839), (296, 2926), (307, 2998), (Start: 313 @3022 has 1 MA's), (338, 3121), (342, 3136), (351, 3160), (353, 3166), (405, 3334), (425, 3394), (464, 3484), (470, 3505), (502, 3595), (533, 3703), (545, 3742), (556, 3763), (558, 3769), (563, 3787), (624, 3943), (660, 4021),

Gene: ElGato\_7 Start: 2228, Stop: 3874, Start Num: 61

Candidate Starts for ElGato\_7:

(Start: 57 @2219 has 2 MA's), (Start: 61 @2228 has 11 MA's), (Start: 64 @2231 has 1 MA's), (Start: 75 @2246 has 21 MA's), (189, 2450), (203, 2486), (Start: 218 @2531 has 2 MA's), (246, 2624), (250, 2639), (255, 2666), (259, 2675), (266, 2687), (296, 2774), (304, 2822), (Start: 313 @2870 has 1 MA's), (338, 2969), (351, 3008), (389, 3122), (395, 3143), (405, 3182), (441, 3263), (464, 3332), (466, 3338), (470, 3353), (494, 3416), (532, 3548), (545, 3590), (558, 3617), (563, 3635), (595, 3683), (624, 3791),

Gene: ElJefes\_3 Start: 1422, Stop: 3047, Start Num: 137

Candidate Starts for ElJefes\_3:

(Start: 101 @1371 has 80 MA's), (Start: 137 @1422 has 1 MA's), (147, 1443), (177, 1488), (203, 1566), (224, 1632), (243, 1695), (250, 1728), (259, 1764), (265, 1773), (266, 1776), (274, 1809), (278, 1824), (285, 1842), (305, 1923), (307, 1944), (317, 1980), (321, 2001), (330, 2037), (347, 2103), (362, 2157), (406, 2337), (412, 2370), (455, 2436), (456, 2439), (466, 2502), (468, 2508), (523, 2673), (531, 2706), (558, 2775), (599, 2853), (600, 2856), (623, 2946), (625, 2952), (632, 2973), (656, 3033), (658, 3036),

Gene: ElTiger69\_9 Start: 5986, Stop: 7764, Start Num: 37

Candidate Starts for ElTiger69\_9:

(Start: 37 @5986 has 19 MA's), (Start: 42 @6013 has 30 MA's), (Start: 66 @6073 has 35 MA's), (73, 6082), (97, 6121), (140, 6196), (143, 6202), (225, 6409), (226, 6412), (284, 6586), (Start: 313 @6718 has 1 MA's), (324, 6763), (342, 6841), (344, 6847), (385, 7012), (395, 7045), (401, 7066), (464, 7240), (471, 7264), (511, 7366), (516, 7387), (531, 7441), (539, 7471), (545, 7483), (569, 7537), (635, 7717), (636, 7720), (658, 7753), (660, 7759),

Gene: EleanorGeorge\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for EleanorGeorge\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Elephantoon\_13 Start: 7764, Stop: 9554, Start Num: 63

Candidate Starts for Elephantoon\_13:

(Start: 63 @7764 has 231 MA's), (Start: 75 @7779 has 21 MA's), (143, 7896), (173, 7995), (225, 8157), (248, 8229), (265, 8283), (276, 8322), (299, 8394), (Start: 313 @8484 has 1 MA's), (319, 8508), (357, 8640), (382, 8748), (400, 8823), (408, 8859), (423, 8919), (454, 8979), (468, 9039), (475, 9060), (511, 9156), (512, 9159), (516, 9177), (531, 9231), (539, 9261), (545, 9273), (595, 9366), (600, 9381), (615, 9432), (636, 9510), (654, 9537), (656, 9540),

Gene: Elezi\_2 Start: 534, Stop: 2240, Start Num: 84

Candidate Starts for Elezi\_2:

(Start: 84 @534 has 42 MA's), (Start: 137 @621 has 1 MA's), (247, 906), (265, 963), (270, 984), (280, 1011), (305, 1101), (316, 1155), (326, 1200), (344, 1275), (386, 1404), (409, 1488), (418, 1527), (464, 1650), (523, 1830), (531, 1863), (545, 1905), (553, 1920), (599, 2055), (609, 2091), (624, 2151), (627, 2163),

Gene: Elinal\_5 Start: 906, Stop: 2582, Start Num: 101

Candidate Starts for Elinal\_5:

(Start: 101 @906 has 80 MA's), (Start: 137 @957 has 1 MA's), (147, 978), (177, 1023), (189, 1065), (203, 1101), (224, 1167), (250, 1263), (259, 1299), (265, 1308), (266, 1311), (278, 1359), (283, 1371),

(305, 1458), (347, 1638), (362, 1692), (406, 1872), (412, 1905), (455, 1971), (466, 2037), (468, 2043), (498, 2127), (523, 2208), (531, 2241), (558, 2310), (599, 2388), (625, 2487), (632, 2508), (635, 2514), (656, 2568), (658, 2571),

Gene: Elliott\_4 Start: 1113, Stop: 2792, Start Num: 101

Candidate Starts for Elliott\_4:

(Start: 101 @1113 has 80 MA's), (Start: 137 @1164 has 1 MA's), (147, 1185), (Start: 148 @1188 has 2 MA's), (174, 1224), (177, 1230), (203, 1311), (224, 1377), (225, 1386), (246, 1458), (250, 1473), (259, 1509), (265, 1518), (278, 1569), (305, 1668), (316, 1722), (326, 1758), (362, 1902), (372, 1938), (383, 1977), (388, 2010), (401, 2058), (408, 2091), (412, 2115), (436, 2148), (455, 2181), (463, 2238), (466, 2247), (496, 2331), (523, 2418), (556, 2514), (596, 2586), (599, 2598), (632, 2718), (656, 2778), (658, 2781),

Gene: Elle\_12 Start: 6396, Stop: 8096, Start Num: 63

Candidate Starts for Elle\_12:

(Start: 63 @6396 has 231 MA's), (78, 6414), (265, 6858), (299, 6966), (Start: 313 @7056 has 1 MA's), (319, 7080), (351, 7197), (397, 7386), (432, 7485), (471, 7596), (545, 7815), (615, 7974), (636, 8052), (654, 8079), (656, 8082), (658, 8085),

Gene: Emaanora\_8 Start: 2376, Stop: 4022, Start Num: 59

Candidate Starts for Emaanora\_8:

(Start: 59 @2376 has 85 MA's), (Start: 75 @2394 has 21 MA's), (Start: 150 @2526 has 2 MA's), (189, 2598), (203, 2634), (255, 2814), (266, 2835), (296, 2922), (307, 2994), (Start: 313 @3018 has 1 MA's), (338, 3117), (342, 3132), (351, 3156), (353, 3162), (405, 3330), (464, 3480), (470, 3501), (494, 3564), (502, 3591), (533, 3699), (545, 3738), (556, 3759), (558, 3765), (563, 3783), (609, 3879), (624, 3939), (660, 4017),

Gene: Emalyn\_3 Start: 805, Stop: 2487, Start Num: 101

Candidate Starts for Emalyn\_3:

(Start: 101 @805 has 80 MA's), (Start: 137 @856 has 1 MA's), (147, 877), (Start: 148 @880 has 2 MA's), (203, 1003), (Start: 218 @1048 has 2 MA's), (225, 1078), (246, 1150), (250, 1165), (259, 1201), (265, 1210), (266, 1213), (278, 1261), (299, 1330), (305, 1360), (307, 1381), (317, 1417), (326, 1450), (354, 1555), (362, 1594), (372, 1630), (383, 1669), (388, 1702), (401, 1750), (408, 1783), (412, 1807), (436, 1840), (466, 1939), (468, 1945), (496, 2023), (511, 2068), (523, 2110), (556, 2206), (587, 2254), (611, 2329), (632, 2410), (656, 2473), (658, 2476),

Gene: EmiMonkey\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for EmiMonkey\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Emianna\_24 Start: 13154, Stop: 14881, Start Num: 96

Candidate Starts for Emianna\_24:

(19, 12920), (43, 13049), (Start: 96 @13154 has 12 MA's), (184, 13304), (197, 13355), (200, 13361), (212, 13400), (216, 13430), (223, 13454), (225, 13472), (229, 13499), (236, 13562), (241, 13580), (317, 13865), (323, 13892), (343, 13976), (367, 14060), (371, 14072), (380, 14105), (405, 14183), (444, 14261), (464, 14333), (476, 14366), (492, 14429), (498, 14456), (506, 14480), (514, 14504),

(547, 14603), (567, 14651), (621, 14789), (629, 14819), (659, 14873),

Gene: Emma\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Emma\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Emotion\_2 Start: 551, Stop: 2290, Start Num: 61

Candidate Starts for Emotion\_2:

(55, 539), (Start: 61 @551 has 11 MA's), (Start: 99 @611 has 202 MA's), (164, 716), (239, 932), (243, 944), (255, 995), (265, 1013), (472, 1733), (545, 1961), (553, 1976), (612, 2147), (627, 2213), (656, 2276),

Gene: Empress\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Empress\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: EmyBug\_13 Start: 8160, Stop: 9926, Start Num: 80

Candidate Starts for EmyBug\_13:

(Start: 63 @8139 has 231 MA's), (Start: 75 @8154 has 21 MA's), (Start: 80 @8160 has 5 MA's), (143, 8271), (173, 8370), (225, 8532), (248, 8604), (265, 8658), (276, 8697), (299, 8769), (Start: 313 @8859 has 1 MA's), (319, 8883), (351, 9000), (357, 9015), (382, 9123), (400, 9198), (408, 9234), (423, 9294), (468, 9414), (475, 9435), (494, 9474), (511, 9528), (512, 9531), (516, 9549), (531, 9603), (539, 9633), (545, 9645), (594, 9735), (600, 9753), (636, 9882), (654, 9909), (656, 9912),

Gene: EnalisNailo\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for EnalisNailo\_2:

(Start: 70 @485 has 45 MA's), (145, 623), (155, 650), (201, 782), (203, 797), (228, 881), (239, 911), (243, 923), (246, 932), (254, 971), (265, 992), (285, 1052), (295, 1076), (306, 1148), (316, 1184), (325, 1220), (345, 1310), (350, 1331), (361, 1376), (362, 1382), (366, 1400), (371, 1415), (439, 1589), (456, 1616), (472, 1685), (475, 1691), (494, 1757), (497, 1769), (506, 1796), (533, 1907), (539, 1943), (545, 1955), (549, 1961), (558, 1979), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627, 2207), (632, 2222), (656, 2270), (658, 2273),

Gene: Engineer\_31 Start: 8628, Stop: 10376, Start Num: 102

Candidate Starts for Engineer\_31:

(Start: 102 @8628 has 27 MA's), (120, 8658), (187, 8787), (235, 8973), (241, 9012), (249, 9036), (254, 9066), (263, 9084), (271, 9111), (280, 9141), (326, 9333), (329, 9351), (370, 9513), (390, 9561), (396, 9576), (453, 9759), (455, 9765), (471, 9849), (501, 9936), (512, 9969), (541, 10083), (558, 10119), (569, 10143), (579, 10158), (640, 10332), (644, 10338),

Gene: Ennea\_30 Start: 13824, Stop: 15503, Start Num: 99

Candidate Starts for Ennea\_30:

(Start: 99 @13824 has 202 MA's), (184, 13974), (200, 14031), (207, 14058), (212, 14070), (219, 14109), (225, 14142), (317, 14484), (323, 14511), (367, 14679), (371, 14691), (380, 14724), (405, 14802), (454, 14904), (488, 15018), (506, 15099), (511, 15114), (523, 15156), (547, 15222), (552, 15234), (567, 15270), (591, 15297), (611, 15366), (612, 15369), (629, 15438),

Gene: EnochSoames\_7 Start: 2576, Stop: 4204, Start Num: 75

Candidate Starts for EnochSoames\_7:

(Start: 59 @2558 has 85 MA's), (Start: 75 @2576 has 21 MA's), (189, 2780), (Start: 218 @2861 has 2 MA's), (255, 2996), (266, 3017), (282, 3062), (296, 3104), (307, 3176), (Start: 313 @3200 has 1 MA's), (335, 3287), (338, 3299), (357, 3353), (389, 3452), (405, 3512), (468, 3674), (470, 3683), (502, 3773), (513, 3806), (532, 3878), (533, 3881), (545, 3920), (556, 3941), (558, 3947), (563, 3965), (609, 4061), (624, 4121),

Gene: EnzoK\_12 Start: 7238, Stop: 8926, Start Num: 62

Candidate Starts for EnzoK\_12:

(Start: 62 @7238 has 371 MA's), (213, 7502), (215, 7526), (265, 7688), (274, 7721), (299, 7796), (Start: 313 @7886 has 1 MA's), (319, 7910), (327, 7937), (337, 7985), (379, 8141), (392, 8201), (477, 8435), (481, 8447), (498, 8489), (505, 8510), (515, 8537), (545, 8645), (594, 8735), (621, 8840),

Gene: Enzomatic\_2 Start: 652, Stop: 2208, Start Num: 144

Candidate Starts for Enzomatic\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 134 @628 has 1 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (267, 997), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (569, 1963), (576, 1978), (593, 2005), (605, 2038), (611, 2065), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: EpicPhail\_13 Start: 6957, Stop: 8657, Start Num: 65

Candidate Starts for EpicPhail\_13:

(Start: 65 @6957 has 85 MA's), (94, 7005), (175, 7140), (238, 7332), (265, 7419), (Start: 313 @7617 has 1 MA's), (335, 7707), (356, 7770), (392, 7932), (464, 8130), (471, 8154), (472, 8157), (498, 8220), (505, 8241), (516, 8280), (545, 8376), (569, 8430), (594, 8466), (636, 8613), (656, 8643), (658, 8646),

Gene: Epsocamisio\_14 Start: 6686, Stop: 8383, Start Num: 63

Candidate Starts for Epsocamisio\_14:

(Start: 63 @6686 has 231 MA's), (78, 6704), (175, 6866), (225, 7022), (248, 7091), (265, 7145), (299, 7253), (304, 7280), (Start: 313 @7343 has 1 MA's), (319, 7367), (471, 7883), (498, 7946), (512, 7988), (545, 8102), (599, 8207), (636, 8339), (654, 8366), (656, 8369), (658, 8372),

Gene: Equemioh13\_14 Start: 7926, Stop: 9713, Start Num: 63

Candidate Starts for Equemioh13\_14:

(16, 7740), (35, 7842), (Start: 63 @7926 has 231 MA's), (128, 8034), (138, 8055), (169, 8145), (173, 8163), (248, 8394), (263, 8445), (265, 8448), (299, 8556), (Start: 313 @8646 has 1 MA's), (319, 8670), (357, 8802), (464, 9189), (511, 9315), (516, 9336), (539, 9420), (545, 9432), (636, 9669), (654, 9696), (656, 9699), (658, 9702), (659, 9705),

Gene: Eradicator\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Eradicator\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (153, 674), (185, 719), (200, 758), (222, 845), (223, 851), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Eraser\_2 Start: 534, Stop: 2240, Start Num: 84

Candidate Starts for Eraser\_2:

(Start: 84 @534 has 42 MA's), (Start: 137 @621 has 1 MA's), (247, 906), (265, 963), (270, 984), (280, 1011), (305, 1101), (316, 1155), (326, 1200), (344, 1275), (367, 1365), (409, 1488), (418, 1527), (464, 1650), (523, 1830), (531, 1863), (545, 1905), (553, 1920), (599, 2055), (609, 2091), (624, 2151), (627, 2163),

Gene: EricB\_15 Start: 7524, Stop: 9278, Start Num: 63

Candidate Starts for EricB\_15:

(Start: 63 @7524 has 231 MA's), (173, 7755), (189, 7806), (203, 7842), (225, 7917), (265, 8040), (276, 8079), (299, 8148), (303, 8172), (304, 8175), (Start: 313 @8238 has 1 MA's), (319, 8262), (344, 8361), (345, 8364), (356, 8391), (357, 8394), (438, 8679), (468, 8766), (471, 8778), (498, 8841), (511, 8880), (516, 8901), (539, 8985), (545, 8997), (636, 9234), (654, 9261), (656, 9264),

Gene: Erik\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Erik\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Eris\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Eris\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Eros\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Eros\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Esperer\_6 Start: 2420, Stop: 4048, Start Num: 75

Candidate Starts for Esperer\_6:

(Start: 59 @2402 has 85 MA's), (Start: 75 @2420 has 21 MA's), (189, 2624), (Start: 218 @2705 has 2 MA's), (255, 2840), (266, 2861), (296, 2948), (307, 3020), (Start: 313 @3044 has 1 MA's), (338, 3143), (357, 3197), (389, 3296), (405, 3356), (468, 3518), (470, 3527), (502, 3617), (511, 3644), (532, 3722), (533, 3725), (545, 3764), (556, 3785), (558, 3791), (563, 3809), (609, 3905), (624, 3965),

Gene: Espica\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Espica\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (440, 4236), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Espresso\_11 Start: 7100, Stop: 8788, Start Num: 62

Candidate Starts for Espresso\_11:

(Start: 62 @7100 has 371 MA's), (213, 7364), (215, 7388), (265, 7550), (274, 7583), (299, 7658), (Start: 313 @7748 has 1 MA's), (319, 7772), (327, 7799), (337, 7847), (342, 7865), (359, 7916), (375, 7991), (379, 8003), (392, 8063), (477, 8297), (481, 8309), (498, 8351), (505, 8372), (515, 8399), (545, 8507), (594, 8597), (621, 8702),

Gene: Estave1\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Estave1\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (358, 1346), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (569, 1964), (576, 1979), (593, 2006), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Et2Brutus\_11 Start: 8027, Stop: 9790, Start Num: 63

Candidate Starts for Et2Brutus\_11:

(Start: 63 @8027 has 231 MA's), (Start: 80 @8048 has 5 MA's), (128, 8135), (173, 8264), (182, 8288), (203, 8351), (248, 8495), (263, 8546), (265, 8549), (299, 8660), (303, 8684), (304, 8687), (Start: 313 @8750 has 1 MA's), (316, 8759), (319, 8774), (351, 8891), (357, 8906), (368, 8966), (389, 9050), (468, 9278), (471, 9290), (494, 9338), (498, 9353), (511, 9392), (516, 9413), (527, 9452), (539, 9497), (545, 9509), (636, 9746), (654, 9773),

Gene: EtoileNova\_12 Start: 7047, Stop: 8744, Start Num: 62

Candidate Starts for EtoileNova\_12:

(Start: 62 @7047 has 371 MA's), (Start: 81 @7071 has 1 MA's), (213, 7317), (257, 7491), (265, 7503), (276, 7542), (283, 7554), (299, 7611), (303, 7635), (Start: 313 @7701 has 1 MA's), (316, 7710), (335, 7791), (344, 7824), (379, 7956), (383, 7968), (395, 8022), (401, 8043), (408, 8076), (432, 8130), (464, 8217), (471, 8241), (472, 8244), (475, 8250), (479, 8259), (498, 8307), (511, 8346), (512, 8349), (516, 8367), (545, 8463), (569, 8517), (625, 8670), (636, 8700), (656, 8730), (658, 8733),

Gene: Euphoria\_11 Start: 6996, Stop: 8684, Start Num: 62

Candidate Starts for Euphoria\_11:

(Start: 62 @6996 has 371 MA's), (213, 7260), (215, 7284), (265, 7446), (274, 7479), (299, 7554), (Start: 313 @7644 has 1 MA's), (319, 7668), (327, 7695), (337, 7743), (359, 7812), (379, 7899), (392, 7959), (472, 8184), (477, 8193), (481, 8205), (498, 8247), (505, 8268), (515, 8295), (545, 8403), (594, 8493), (621, 8598),

Gene: Eurydice\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Eurydice\_11:

(20, 6707), (23, 6725), (27, 6755), (Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (263, 7337), (265, 7340), (276, 7379), (299,

7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: EvilGenius\_14 Start: 7834, Stop: 9621, Start Num: 63

Candidate Starts for EvilGenius\_14:

(Start: 63 @7834 has 231 MA's), (128, 7942), (138, 7963), (173, 8071), (203, 8158), (248, 8302), (263, 8353), (265, 8356), (299, 8464), (Start: 313 @8554 has 1 MA's), (319, 8578), (351, 8695), (357, 8710), (433, 9010), (502, 9196), (511, 9223), (516, 9244), (545, 9340), (636, 9577), (656, 9607),

Gene: Exile\_2 Start: 568, Stop: 2271, Start Num: 84

Candidate Starts for Exile\_2:

(Start: 84 @568 has 42 MA's), (203, 790), (219, 838), (243, 919), (265, 988), (280, 1036), (305, 1129), (316, 1183), (367, 1393), (545, 1939), (553, 1954), (627, 2194), (634, 2209), (656, 2257),

Gene: Expelliarmus\_8 Start: 5669, Stop: 7423, Start Num: 42

Candidate Starts for Expelliarmus\_8:

(Start: 42 @5669 has 30 MA's), (Start: 54 @5711 has 7 MA's), (Start: 81 @5750 has 1 MA's), (143, 5858), (225, 6065), (291, 6266), (Start: 313 @6374 has 1 MA's), (344, 6503), (385, 6668), (395, 6701), (441, 6821), (464, 6896), (505, 7007), (511, 7025), (516, 7046), (531, 7100), (545, 7142), (599, 7247), (624, 7346), (636, 7379), (658, 7412), (660, 7418),

Gene: ExplosioNervosa\_13 Start: 8157, Stop: 9929, Start Num: 75

Candidate Starts for ExplosioNervosa\_13:

(Start: 63 @8142 has 231 MA's), (Start: 75 @8157 has 21 MA's), (Start: 80 @8163 has 5 MA's), (143, 8274), (173, 8373), (225, 8535), (248, 8607), (265, 8661), (276, 8700), (299, 8772), (Start: 313 @8862 has 1 MA's), (319, 8886), (351, 9003), (357, 9018), (382, 9126), (400, 9201), (408, 9237), (423, 9297), (468, 9417), (475, 9438), (494, 9477), (511, 9531), (512, 9534), (516, 9552), (531, 9606), (539, 9636), (545, 9648), (594, 9738), (600, 9756), (636, 9885), (654, 9912), (656, 9915),

Gene: Eyeball\_11 Start: 6743, Stop: 8431, Start Num: 62

Candidate Starts for Eyeball\_11:

(Start: 62 @6743 has 371 MA's), (213, 7007), (215, 7031), (265, 7193), (274, 7226), (299, 7301), (Start: 313 @7391 has 1 MA's), (319, 7415), (327, 7442), (337, 7490), (379, 7646), (392, 7706), (472, 7931), (477, 7940), (481, 7952), (498, 7994), (505, 8015), (515, 8042), (545, 8150), (594, 8240), (621, 8345),

Gene: FF47\_05 Start: 1775, Stop: 3439, Start Num: 101

Candidate Starts for FF47\_05:

(Start: 101 @1775 has 80 MA's), (131, 1814), (143, 1838), (203, 1967), (244, 2099), (246, 2114), (250, 2129), (265, 2174), (278, 2222), (292, 2258), (304, 2315), (307, 2339), (317, 2375), (367, 2573), (372, 2588), (383, 2627), (414, 2774), (464, 2894), (502, 2999), (533, 3107), (542, 3137), (556, 3164), (559, 3176), (587, 3212), (588, 3215), (616, 3308), (629, 3365),

Gene: Fajezeel\_13 Start: 7320, Stop: 9008, Start Num: 70

Candidate Starts for Fajezeel\_13:

(Start: 70 @7320 has 45 MA's), (175, 7491), (Start: 179 @7500 has 2 MA's), (213, 7584), (216, 7611), (219, 7620), (265, 7770), (274, 7803), (299, 7878), (Start: 313 @7968 has 1 MA's), (319, 7992), (327, 8019), (337, 8067), (379, 8223), (392, 8283), (477, 8517), (498, 8571), (505, 8592), (515, 8619), (545, 8727), (594, 8817), (621, 8922),

Gene: Fameo\_12 Start: 7454, Stop: 9241, Start Num: 63

Candidate Starts for Fameo\_12:

(Start: 63 @7454 has 231 MA's), (128, 7562), (138, 7583), (173, 7691), (225, 7853), (265, 7976), (299, 8084), (Start: 313 @8174 has 1 MA's), (319, 8198), (351, 8315), (357, 8330), (433, 8630), (502, 8816), (511, 8843), (516, 8864), (545, 8960), (636, 9197), (654, 9224), (656, 9227),

Gene: Fancypants\_2 Start: 653, Stop: 2209, Start Num: 144

Candidate Starts for Fancypants\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (358, 1346), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (569, 1964), (576, 1979), (593, 2006), (605, 2039), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Farber\_13 Start: 6950, Stop: 8650, Start Num: 65

Candidate Starts for Farber\_13:

(Start: 65 @6950 has 85 MA's), (94, 6998), (175, 7133), (238, 7325), (265, 7412), (Start: 313 @7610 has 1 MA's), (335, 7700), (356, 7763), (392, 7925), (464, 8123), (471, 8147), (472, 8150), (498, 8213), (505, 8234), (516, 8273), (545, 8369), (569, 8423), (594, 8459), (636, 8606), (656, 8636), (658, 8639),

Gene: Farewell\_2 Start: 506, Stop: 2287, Start Num: 67

Candidate Starts for Farewell\_2:

(Start: 67 @506 has 2 MA's), (130, 611), (215, 830), (219, 842), (225, 869), (246, 935), (248, 941), (249, 944), (254, 974), (265, 995), (284, 1052), (306, 1154), (316, 1190), (326, 1238), (339, 1298), (363, 1388), (371, 1418), (395, 1472), (412, 1550), (464, 1658), (470, 1679), (475, 1691), (481, 1709), (506, 1808), (519, 1862), (521, 1877), (533, 1919), (545, 1967), (558, 1991), (573, 2027), (595, 2096), (598, 2102), (599, 2108), (615, 2159), (621, 2195), (623, 2201), (627, 2216), (634, 2234), (643, 2249),

Gene: Fascinus\_10 Start: 6746, Stop: 8434, Start Num: 62

Candidate Starts for Fascinus\_10:

(Start: 62 @6746 has 371 MA's), (Start: 179 @6926 has 2 MA's), (213, 7010), (219, 7046), (225, 7073), (265, 7196), (299, 7304), (Start: 313 @7394 has 1 MA's), (319, 7418), (337, 7493), (359, 7562), (379, 7649), (392, 7709), (472, 7934), (477, 7943), (481, 7955), (498, 7997), (505, 8018), (515, 8045), (545, 8153), (594, 8243), (621, 8348),

Gene: Fastidio\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Fastidio\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: FatCactus\_10 Start: 5592, Stop: 7292, Start Num: 68

Candidate Starts for FatCactus\_10:

(Start: 68 @5592 has 1 MA's), (Start: 148 @5733 has 2 MA's), (175, 5772), (250, 6006), (265, 6051), (289, 6123), (296, 6141), (299, 6162), (310, 6234), (Start: 313 @6252 has 1 MA's), (344, 6375), (356, 6405), (377, 6501), (408, 6627), (463, 6765), (471, 6792), (516, 6915), (531, 6969), (545, 7011), (558, 7038), (569, 7065), (636, 7248), (658, 7281),

Gene: Fayely\_13 Start: 8142, Stop: 9929, Start Num: 63

Candidate Starts for Fayely\_13:

(Start: 63 @8142 has 231 MA's), (Start: 75 @8157 has 21 MA's), (Start: 80 @8163 has 5 MA's), (143, 8274), (173, 8373), (225, 8535), (248, 8607), (265, 8661), (276, 8700), (299, 8772), (Start: 313 @8862 has 1 MA's), (319, 8886), (351, 9003), (357, 9018), (382, 9126), (400, 9201), (408, 9237), (423, 9297), (468, 9417), (475, 9438), (494, 9477), (511, 9531), (512, 9534), (516, 9552), (531, 9606), (539, 9636), (545, 9648), (594, 9738), (600, 9756), (636, 9885), (654, 9912), (656, 9915),

Gene: Feastonyeet\_3 Start: 928, Stop: 2604, Start Num: 101

Candidate Starts for Feastonyeet\_3:

(Start: 101 @928 has 80 MA's), (Start: 137 @979 has 1 MA's), (147, 1000), (177, 1045), (189, 1087), (203, 1123), (224, 1189), (250, 1285), (259, 1321), (265, 1330), (266, 1333), (278, 1381), (283, 1393), (305, 1480), (347, 1660), (362, 1714), (406, 1894), (412, 1927), (455, 1993), (466, 2059), (468, 2065), (498, 2149), (523, 2230), (531, 2263), (558, 2332), (599, 2410), (612, 2452), (625, 2509), (632, 2530), (635, 2536), (656, 2590), (658, 2593),

Gene: FeliMaine\_37 Start: 11121, Stop: 12863, Start Num: 101

Candidate Starts for FeliMaine\_37:

(Start: 101 @11121 has 80 MA's), (175, 11238), (189, 11283), (206, 11349), (208, 11364), (215, 11397), (216, 11400), (221, 11415), (226, 11439), (227, 11442), (238, 11472), (244, 11493), (246, 11511), (249, 11520), (256, 11556), (265, 11571), (278, 11616), (296, 11658), (301, 11697), (305, 11709), (307, 11730), (320, 11781), (327, 11802), (388, 12024), (412, 12129), (414, 12138), (447, 12171), (455, 12192), (456, 12195), (460, 12222), (464, 12252), (468, 12264), (472, 12279), (477, 12288), (479, 12294), (493, 12336), (495, 12345), (500, 12360), (505, 12375), (523, 12435), (531, 12474), (540, 12507), (556, 12537), (557, 12540), (583, 12624), (599, 12678), (604, 12693), (612, 12720), (624, 12774), (654, 12846), (656, 12849),

Gene: Fernando\_13 Start: 6955, Stop: 8655, Start Num: 65

Candidate Starts for Fernando\_13:

(Start: 65 @6955 has 85 MA's), (94, 7003), (175, 7138), (238, 7330), (265, 7417), (275, 7453), (Start: 313 @7615 has 1 MA's), (335, 7705), (356, 7768), (392, 7930), (464, 8128), (471, 8152), (472, 8155), (498, 8218), (505, 8239), (516, 8278), (545, 8374), (569, 8428), (594, 8464), (636, 8611), (656, 8641), (658, 8644),

Gene: Fibonacci\_12 Start: 8027, Stop: 9790, Start Num: 63

Candidate Starts for Fibonacci\_12:

(Start: 63 @8027 has 231 MA's), (Start: 80 @8048 has 5 MA's), (128, 8135), (173, 8264), (182, 8288), (203, 8351), (248, 8495), (263, 8546), (265, 8549), (299, 8660), (303, 8684), (304, 8687), (Start: 313 @8750 has 1 MA's), (316, 8759), (319, 8774), (351, 8891), (357, 8906), (368, 8966), (389, 9050), (438, 9191), (468, 9278), (471, 9290), (494, 9338), (498, 9353), (511, 9392), (516, 9413), (527, 9452), (539, 9497), (545, 9509), (636, 9746), (654, 9773),

Gene: Filuzino\_2 Start: 588, Stop: 2225, Start Num: 99

Candidate Starts for Filuzino\_2:

(Start: 99 @588 has 202 MA's), (109, 603), (Start: 115 @612 has 3 MA's), (118, 618), (Start: 134 @645 has 1 MA's), (Start: 144 @669 has 2 MA's), (146, 672), (185, 735), (189, 753), (200, 774), (222, 861), (223, 867), (233, 921), (241, 933), (245, 945), (248, 954), (249, 957), (252, 978), (258, 999), (267, 1014), (282, 1071), (296, 1110), (306, 1179), (309, 1185), (317, 1215), (318, 1218), (319, 1227), (323, 1242), (327, 1260), (338, 1311), (367, 1413), (417, 1584), (435, 1596), (450, 1614), (464, 1680), (474, 1710), (476, 1713), (478, 1716), (498, 1773), (503, 1788), (505, 1794), (506, 1797), (511, 1812), (514, 1821), (532, 1890), (543, 1920), (547, 1929), (560, 1962), (576, 1995), (593, 2022), (605, 2055), (611, 2082), (612, 2085), (617, 2106), (621, 2130), (624, 2139), (625, 2142), (650, 2199),

Gene: Firehouse51\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Firehouse51\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: FiringLine\_12 Start: 7386, Stop: 9173, Start Num: 63

Candidate Starts for FiringLine\_12:

(Start: 63 @7386 has 231 MA's), (128, 7494), (138, 7515), (173, 7623), (225, 7785), (263, 7905), (265, 7908), (299, 8016), (Start: 313 @8106 has 1 MA's), (319, 8130), (351, 8247), (357, 8262), (433, 8562), (502, 8748), (511, 8775), (516, 8796), (545, 8892), (636, 9129), (654, 9156), (656, 9159),

Gene: First\_0012 Start: 7443, Stop: 9233, Start Num: 63

Candidate Starts for First\_0012:

(18, 7269), (Start: 63 @7443 has 231 MA's), (128, 7551), (138, 7572), (173, 7680), (263, 7965), (265, 7968), (299, 8076), (Start: 313 @8166 has 1 MA's), (319, 8190), (351, 8307), (357, 8322), (433, 8622), (502, 8808), (511, 8835), (516, 8856), (545, 8952), (636, 9189), (654, 9216), (656, 9219),

Gene: FiveHead\_2 Start: 553, Stop: 2268, Start Num: 59

Candidate Starts for FiveHead\_2:

(Start: 59 @553 has 85 MA's), (Start: 137 @652 has 1 MA's), (243, 925), (255, 976), (265, 994), (280, 1042), (285, 1054), (305, 1135), (344, 1309), (366, 1396), (409, 1522), (472, 1711), (502, 1795), (545, 1939), (553, 1954), (599, 2083), (627, 2191), (656, 2254),

Gene: Flapper\_28 Start: 13656, Stop: 15332, Start Num: 99

Candidate Starts for Flapper\_28:

(Start: 99 @13656 has 202 MA's), (184, 13806), (200, 13863), (207, 13890), (212, 13902), (216, 13932), (248, 14052), (317, 14316), (323, 14343), (367, 14511), (371, 14523), (380, 14556), (405, 14634), (448, 14715), (464, 14784), (478, 14820), (488, 14850), (506, 14931), (511, 14946), (527, 15006), (547, 15054), (621, 15240), (629, 15270), (648, 15303),

Gene: Flare16\_12 Start: 7484, Stop: 9271, Start Num: 63

Candidate Starts for Flare16\_12:

(16, 7298), (35, 7400), (Start: 63 @7484 has 231 MA's), (128, 7592), (138, 7613), (173, 7721), (265, 8006), (299, 8114), (Start: 313 @8204 has 1 MA's), (319, 8228), (351, 8345), (357, 8360), (464, 8747), (511, 8873), (516, 8894), (539, 8978), (545, 8990), (636, 9227), (654, 9254), (656, 9257), (658, 9260), (659, 9263),

Gene: Flaverint\_12 Start: 8024, Stop: 9787, Start Num: 63

Candidate Starts for Flaverint\_12:

(31, 7904), (Start: 63 @8024 has 231 MA's), (Start: 80 @8045 has 5 MA's), (128, 8132), (173, 8261), (182, 8285), (203, 8348), (248, 8492), (263, 8543), (265, 8546), (299, 8657), (303, 8681), (304, 8684), (Start: 313 @8747 has 1 MA's), (316, 8756), (319, 8771), (351, 8888), (357, 8903), (368, 8963), (389, 9047), (468, 9275), (471, 9287), (494, 9335), (498, 9350), (511, 9389), (516, 9410), (527, 9449), (539, 9494), (545, 9506), (636, 9743), (654, 9770),

Gene: Float294\_26 Start: 13266, Stop: 14945, Start Num: 99

Candidate Starts for Float294\_26:

(Start: 99 @13266 has 202 MA's), (184, 13416), (200, 13473), (207, 13500), (212, 13512), (219, 13551), (225, 13584), (317, 13926), (323, 13953), (367, 14121), (371, 14133), (380, 14166), (405, 14244), (454, 14346), (488, 14460), (506, 14541), (511, 14556), (523, 14598), (547, 14664), (552, 14676), (567, 14712), (591, 14739), (611, 14808), (612, 14811), (629, 14880),

Gene: Floof\_2 Start: 634, Stop: 2388, Start Num: 83

Candidate Starts for Floof\_2:

(Start: 83 @634 has 13 MA's), (186, 820), (243, 1000), (255, 1051), (265, 1069), (305, 1219), (335, 1351), (386, 1558), (466, 1810), (494, 1888), (498, 1903), (523, 1984), (545, 2059), (553, 2074), (618, 2278), (624, 2299), (627, 2311),

Gene: Floral\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for Floral\_2:

(Start: 70 @485 has 45 MA's), (145, 623), (155, 650), (201, 782), (203, 797), (228, 881), (239, 911), (243, 923), (246, 932), (254, 971), (265, 992), (285, 1052), (295, 1076), (306, 1148), (316, 1184), (325, 1220), (345, 1310), (350, 1331), (361, 1376), (362, 1382), (366, 1400), (371, 1415), (439, 1589), (456, 1616), (472, 1685), (475, 1691), (494, 1757), (497, 1769), (506, 1796), (533, 1907), (539, 1943), (545, 1955), (549, 1961), (558, 1979), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627, 2207), (632, 2222), (656, 2270), (658, 2273),

Gene: Florean\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Florean\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Florence1\_9 Start: 5976, Stop: 7727, Start Num: 42

Candidate Starts for Florence1\_9:

(Start: 37 @5949 has 19 MA's), (Start: 42 @5976 has 30 MA's), (73, 6045), (140, 6159), (143, 6165), (203, 6297), (225, 6372), (226, 6375), (238, 6408), (248, 6441), (284, 6549), (291, 6573), (299, 6606), (Start: 313 @6681 has 1 MA's), (324, 6726), (342, 6804), (344, 6810), (359, 6855), (395, 7008), (401, 7029), (464, 7203), (471, 7227), (472, 7230), (498, 7290), (502, 7302), (511, 7329), (516, 7350), (539, 7434), (545, 7446), (595, 7539), (636, 7683), (658, 7716), (660, 7722),

Gene: Florence4\_10 Start: 5976, Stop: 7727, Start Num: 42

Candidate Starts for Florence4\_10:

(Start: 37 @5949 has 19 MA's), (Start: 42 @5976 has 30 MA's), (73, 6045), (140, 6159), (143, 6165), (203, 6297), (225, 6372), (226, 6375), (238, 6408), (248, 6441), (284, 6549), (291, 6573), (299, 6606), (Start: 313 @6681 has 1 MA's), (324, 6726), (342, 6804), (344, 6810), (359, 6855), (395, 7008), (401, 7029), (464, 7203), (471, 7227), (472, 7230), (498, 7290), (502, 7302), (511, 7329), (516, 7350), (539, 7434), (545, 7446), (595, 7539), (636, 7683), (658, 7716), (660, 7722),

Gene: Florinda\_2 Start: 584, Stop: 2221, Start Num: 99

Candidate Starts for Florinda\_2:

(Start: 99 @584 has 202 MA's), (109, 599), (Start: 115 @608 has 3 MA's), (118, 614), (Start: 134 @641 has 1 MA's), (Start: 144 @665 has 2 MA's), (146, 668), (185, 731), (189, 749), (200, 770), (222, 857), (223, 863), (233, 917), (241, 929), (248, 950), (249, 953), (252, 974), (258, 995), (267, 1010), (282, 1067), (296, 1106), (306, 1175), (309, 1181), (317, 1211), (318, 1214), (319, 1223), (323, 1238), (327, 1256), (338, 1307), (367, 1409), (417, 1580), (435, 1592), (450, 1610), (464, 1676), (474, 1706), (476, 1709), (478, 1712), (498, 1769), (503, 1784), (505, 1790), (506, 1793), (511, 1808), (514, 1817), (532,

1886), (543, 1916), (547, 1925), (560, 1958), (570, 1979), (576, 1991), (593, 2018), (602, 2042), (605, 2051), (611, 2078), (612, 2081), (617, 2102), (621, 2126), (624, 2135), (625, 2138), (650, 2195),

Gene: Flutur\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for Flutur\_2:

(Start: 84 @533 has 42 MA's), (247, 905), (265, 962), (280, 1010), (305, 1100), (316, 1154), (344, 1274), (367, 1364), (418, 1526), (464, 1649), (545, 1904), (553, 1919), (576, 1973), (599, 2054), (620, 2138), (627, 2162),

Gene: Flux\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Flux\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: FlyCatcher\_15 Start: 8301, Stop: 10001, Start Num: 62

Candidate Starts for FlyCatcher\_15:

(Start: 62 @8301 has 371 MA's), (Start: 102 @8364 has 27 MA's), (186, 8508), (196, 8538), (213, 8571), (225, 8634), (265, 8757), (269, 8772), (299, 8865), (303, 8889), (Start: 313 @8955 has 1 MA's), (357, 9111), (379, 9210), (401, 9297), (408, 9330), (432, 9384), (441, 9399), (463, 9468), (464, 9471), (471, 9495), (502, 9573), (545, 9717), (563, 9762), (600, 9825), (625, 9924), (636, 9954), (656, 9987),

Gene: Footloose\_2 Start: 428, Stop: 2197, Start Num: 54

Candidate Starts for Footloose\_2:

(36, 362), (38, 371), (Start: 54 @428 has 7 MA's), (123, 542), (151, 596), (156, 614), (159, 629), (165, 650), (Start: 179 @683 has 2 MA's), (185, 701), (189, 719), (203, 755), (204, 758), (238, 866), (246, 893), (250, 908), (251, 914), (255, 935), (265, 953), (296, 1043), (Start: 313 @1139 has 1 MA's), (317, 1151), (323, 1178), (327, 1199), (335, 1238), (351, 1295), (356, 1307), (362, 1346), (369, 1373), (373, 1382), (386, 1403), (391, 1424), (396, 1436), (398, 1445), (437, 1550), (442, 1556), (456, 1580), (468, 1634), (472, 1649), (477, 1658), (479, 1664), (491, 1703), (501, 1745), (507, 1763), (518, 1808), (531, 1865), (540, 1913), (545, 1922), (595, 2021), (599, 2033), (607, 2057), (609, 2069), (621, 2120), (623, 2126), (627, 2141), (632, 2156), (634, 2159), (646, 2189),

Gene: ForGetIt\_9 Start: 6005, Stop: 7783, Start Num: 37

Candidate Starts for ForGetIt\_9:

(Start: 37 @6005 has 19 MA's), (Start: 42 @6032 has 30 MA's), (73, 6101), (97, 6140), (140, 6215), (143, 6221), (203, 6353), (225, 6428), (226, 6431), (269, 6566), (284, 6605), (291, 6629), (Start: 313 @6737 has 1 MA's), (324, 6782), (342, 6860), (344, 6866), (385, 7031), (395, 7064), (401, 7085), (464, 7259), (471, 7283), (472, 7286), (498, 7346), (502, 7358), (511, 7385), (516, 7406), (539, 7490), (545, 7502), (636, 7739), (658, 7772), (660, 7778),

Gene: ForesterFrank\_13 Start: 8955, Stop: 10742, Start Num: 63

Candidate Starts for ForesterFrank\_13:

(Start: 63 @8955 has 231 MA's), (128, 9063), (138, 9084), (173, 9192), (182, 9216), (189, 9243), (203, 9279), (263, 9474), (265, 9477), (276, 9516), (299, 9585), (Start: 313 @9675 has 1 MA's), (319, 9699), (327, 9726), (357, 9831), (464, 10218), (498, 10305), (502, 10317), (511, 10344), (516, 10365), (545, 10461), (636, 10698), (654, 10725), (656, 10728), (658, 10731), (659, 10734),

Gene: Forester\_4 Start: 640, Stop: 2394, Start Num: 83

Candidate Starts for Forester\_4:

(Start: 83 @640 has 13 MA's), (97, 664), (243, 1006), (255, 1057), (265, 1075), (293, 1168), (305, 1225), (409, 1648), (464, 1810), (466, 1816), (523, 1990), (545, 2065), (553, 2080), (582, 2161), (618, 2284), (624, 2305), (627, 2317),

Gene: Forsytheast\_10 Start: 7010, Stop: 8698, Start Num: 62

Candidate Starts for Forsytheast\_10:

(Start: 62 @7010 has 371 MA's), (Start: 179 @7190 has 2 MA's), (213, 7274), (219, 7310), (265, 7460), (299, 7568), (Start: 313 @7658 has 1 MA's), (319, 7682), (337, 7757), (359, 7826), (379, 7913), (392, 7973), (477, 8207), (481, 8219), (498, 8261), (505, 8282), (515, 8309), (545, 8417), (594, 8507), (621, 8612),

Gene: Foxboro\_25 Start: 13660, Stop: 15387, Start Num: 96

Candidate Starts for Foxboro\_25:

(19, 13426), (43, 13555), (Start: 96 @13660 has 12 MA's), (184, 13810), (197, 13861), (200, 13867), (212, 13906), (216, 13936), (223, 13960), (225, 13978), (229, 14005), (236, 14068), (241, 14086), (317, 14371), (323, 14398), (343, 14482), (367, 14566), (371, 14578), (380, 14611), (405, 14689), (444, 14767), (464, 14839), (476, 14872), (492, 14935), (498, 14962), (506, 14986), (514, 15010), (547, 15109), (567, 15157), (621, 15295), (629, 15325), (659, 15379),

Gene: Francis47\_11 Start: 7247, Stop: 8935, Start Num: 62

Candidate Starts for Francis47\_11:

(Start: 62 @7247 has 371 MA's), (213, 7511), (215, 7535), (265, 7697), (274, 7730), (299, 7805), (Start: 313 @7895 has 1 MA's), (319, 7919), (327, 7946), (337, 7994), (379, 8150), (392, 8210), (472, 8435), (477, 8444), (481, 8456), (498, 8498), (505, 8519), (515, 8546), (545, 8654), (594, 8744), (621, 8849),

Gene: Fred313\_11 Start: 6199, Stop: 7896, Start Num: 62

Candidate Starts for Fred313\_11:

(Start: 62 @6199 has 371 MA's), (109, 6271), (213, 6469), (257, 6643), (265, 6655), (276, 6694), (283, 6706), (299, 6763), (303, 6787), (Start: 313 @6853 has 1 MA's), (316, 6862), (335, 6943), (379, 7108), (395, 7174), (401, 7195), (406, 7219), (408, 7228), (438, 7294), (464, 7369), (471, 7393), (472, 7396), (475, 7402), (479, 7411), (498, 7459), (511, 7498), (516, 7519), (545, 7615), (563, 7660), (569, 7669), (625, 7822), (636, 7852), (656, 7882), (658, 7885),

Gene: FreddyB\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for FreddyB\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Fribs8\_5 Start: 1777, Stop: 3477, Start Num: 101

Candidate Starts for Fribs8\_5:

(Start: 101 @1777 has 80 MA's), (120, 1807), (147, 1849), (203, 1987), (219, 2035), (226, 2065), (238, 2098), (246, 2134), (250, 2149), (252, 2164), (265, 2194), (278, 2245), (305, 2344), (307, 2365), (326, 2434), (335, 2476), (343, 2506), (383, 2653), (391, 2704), (408, 2767), (412, 2791), (454, 2857), (460, 2890), (462, 2914), (463, 2917), (466, 2926), (472, 2947), (483, 2974), (498, 3019), (502, 3031), (504, 3037), (511, 3058), (519, 3097), (556, 3196), (571, 3232), (611, 3319), (632, 3400), (635, 3406), (656, 3463), (658, 3466),

Gene: Froghopper\_12 Start: 6689, Stop: 8377, Start Num: 62

Candidate Starts for Froghopper\_12:

(Start: 62 @6689 has 371 MA's), (Start: 179 @6869 has 2 MA's), (213, 6953), (219, 6989), (225, 7016), (265, 7139), (274, 7172), (299, 7247), (Start: 313 @7337 has 1 MA's), (319, 7361), (327, 7388), (337, 7436), (375, 7580), (379, 7592), (392, 7652), (472, 7877), (477, 7886), (481, 7898), (498, 7940), (505, 7961), (515, 7988), (545, 8096), (594, 8186), (621, 8291),

Gene: Fruitloop\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Fruitloop\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Funston\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Funston\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Fury\_33 Start: 12931, Stop: 14610, Start Num: 95

Candidate Starts for Fury\_33:

(Start: 95 @12931 has 3 MA's), (Start: 101 @12937 has 80 MA's), (153, 13042), (200, 13141), (212, 13180), (216, 13210), (223, 13234), (267, 13390), (317, 13591), (327, 13636), (367, 13786), (371, 13798), (476, 14092), (488, 14125), (506, 14206), (547, 14329), (552, 14341), (591, 14404), (611, 14473), (621, 14515), (629, 14545), (651, 14587), (659, 14602),

Gene: Fushigi\_12 Start: 7411, Stop: 9099, Start Num: 70

Candidate Starts for Fushigi\_12:

(Start: 70 @7411 has 45 MA's), (Start: 179 @7591 has 2 MA's), (213, 7675), (216, 7702), (219, 7711), (265, 7861), (274, 7894), (299, 7969), (Start: 313 @8059 has 1 MA's), (319, 8083), (327, 8110), (337, 8158), (359, 8227), (379, 8314), (392, 8374), (472, 8599), (477, 8608), (481, 8620), (498, 8662), (505, 8683), (515, 8710), (545, 8818), (594, 8908), (621, 9013),

Gene: GAL1\_4 Start: 1617, Stop: 3242, Start Num: 99

Candidate Starts for GAL1\_4:

(Start: 99 @1617 has 202 MA's), (Start: 134 @1677 has 1 MA's), (146, 1704), (176, 1743), (183, 1761), (189, 1785), (191, 1794), (212, 1845), (216, 1875), (223, 1899), (225, 1917), (233, 1953), (241, 1968), (248, 1989), (260, 2037), (262, 2040), (264, 2043), (272, 2073), (294, 2139), (314, 2241), (317, 2250), (319, 2262), (327, 2295), (358, 2397), (364, 2436), (371, 2457), (380, 2490), (405, 2568), (406, 2574), (413, 2613), (415, 2619), (454, 2673), (459, 2700), (463, 2718), (464, 2721), (465, 2724), (479, 2763), (494, 2802), (498, 2817), (511, 2856), (514, 2865), (523, 2898), (530, 2928), (531, 2931), (547, 2964), (560, 2997), (567, 3012), (590, 3036), (602, 3072), (609, 3102), (612, 3111), (621, 3150), (629, 3180), (639, 3198), (659, 3234),

Gene: GMA4\_2 Start: 489, Stop: 2087, Start Num: 92

Candidate Starts for GMA4\_2:

(Start: 92 @489 has 1 MA's), (129, 540), (Start: 148 @579 has 2 MA's), (182, 636), (203, 699), (204, 702), (213, 711), (217, 741), (231, 783), (255, 861), (265, 879), (296, 966), (305, 1017), (Start: 313 @1062 has 1 MA's), (316, 1071), (330, 1140), (356, 1218), (362, 1257), (371, 1290), (376, 1311), (401, 1365), (403, 1371), (406, 1389), (411, 1419), (414, 1431), (455, 1491), (466, 1542), (545, 1791), (576, 1860), (600, 1911), (627, 2016),

Gene: GMonster\_10 Start: 6615, Stop: 8303, Start Num: 62

Candidate Starts for GMonster\_10:

(Start: 62 @6615 has 371 MA's), (213, 6879), (215, 6903), (265, 7065), (274, 7098), (299, 7173), (Start: 313 @7263 has 1 MA's), (319, 7287), (327, 7314), (337, 7362), (359, 7431), (379, 7518), (382, 7527), (392, 7578), (477, 7812), (481, 7824), (498, 7866), (505, 7887), (515, 7914), (545, 8022), (594, 8112), (621, 8217),

Gene: GRU1\_terL Start: 5541, Stop: 7217, Start Num: 99

Candidate Starts for GRU1\_terL:

(Start: 99 @5541 has 202 MA's), (184, 5691), (200, 5748), (207, 5775), (212, 5787), (216, 5817), (248, 5937), (317, 6201), (323, 6228), (343, 6312), (346, 6324), (367, 6396), (371, 6408), (380, 6441), (405, 6519), (448, 6600), (456, 6627), (464, 6669), (478, 6705), (488, 6735), (506, 6816), (511, 6831), (547, 6939), (621, 7125), (629, 7155),

Gene: GTE2\_02 Start: 803, Stop: 2482, Start Num: 101

Candidate Starts for GTE2\_02:

(Start: 101 @803 has 80 MA's), (Start: 137 @854 has 1 MA's), (147, 875), (177, 920), (Start: 218 @1046 has 2 MA's), (221, 1055), (224, 1067), (225, 1076), (250, 1163), (259, 1199), (265, 1208), (278, 1259), (305, 1358), (316, 1412), (326, 1448), (362, 1592), (372, 1628), (383, 1667), (388, 1700), (414, 1814), (436, 1838), (466, 1937), (496, 2021), (523, 2108), (556, 2204), (587, 2252), (596, 2276), (611, 2327), (632, 2408), (656, 2468), (658, 2471),

Gene: GTE5\_terL Start: 6550, Stop: 8226, Start Num: 99

Candidate Starts for GTE5\_terL:

(Start: 99 @6550 has 202 MA's), (184, 6700), (200, 6757), (207, 6784), (212, 6796), (216, 6826), (317, 7210), (323, 7237), (367, 7405), (371, 7417), (380, 7450), (405, 7528), (448, 7609), (464, 7678), (478, 7714), (488, 7744), (506, 7825), (511, 7840), (527, 7900), (547, 7948), (621, 8134), (629, 8164),

Gene: GTE8\_13 Start: 6443, Stop: 8170, Start Num: 96

Candidate Starts for GTE8\_13:

(43, 6338), (Start: 96 @6443 has 12 MA's), (184, 6593), (197, 6644), (200, 6650), (212, 6689), (216, 6719), (241, 6869), (317, 7154), (323, 7181), (343, 7265), (367, 7349), (371, 7361), (380, 7394), (405, 7472), (464, 7622), (476, 7655), (506, 7769), (523, 7826), (547, 7892), (567, 7940), (621, 8078), (629, 8108),

Gene: GUmbie\_2 Start: 588, Stop: 2225, Start Num: 99

Candidate Starts for GUmbie\_2:

(Start: 99 @588 has 202 MA's), (109, 603), (Start: 115 @612 has 3 MA's), (118, 618), (Start: 134 @645 has 1 MA's), (Start: 144 @669 has 2 MA's), (146, 672), (185, 735), (189, 753), (200, 774), (222, 861), (223, 867), (233, 921), (241, 933), (245, 945), (248, 954), (249, 957), (252, 978), (258, 999), (267, 1014), (282, 1071), (296, 1110), (306, 1179), (309, 1185), (317, 1215), (318, 1218), (319, 1227), (323, 1242), (327, 1260), (338, 1311), (367, 1413), (417, 1584), (435, 1596), (450, 1614), (464, 1680), (474, 1710), (476, 1713), (478, 1716), (498, 1773), (503, 1788), (505, 1794), (506, 1797), (511, 1812), (514, 1821), (532, 1890), (543, 1920), (560, 1962), (569, 1980), (576, 1995), (593, 2022), (605, 2055), (611, 2082), (612, 2085), (617, 2106), (621, 2130), (624, 2139), (625, 2142), (650, 2199),

Gene: Gachnar\_11 Start: 7030, Stop: 8718, Start Num: 62

Candidate Starts for Gachnar\_11:

(Start: 62 @7030 has 371 MA's), (213, 7294), (215, 7318), (265, 7480), (274, 7513), (299, 7588),  
(Start: 313 @7678 has 1 MA's), (319, 7702), (327, 7729), (337, 7777), (379, 7933), (392, 7993), (477,  
8227), (481, 8239), (498, 8281), (505, 8302), (515, 8329), (545, 8437), (594, 8527), (621, 8632),

Gene: Gadost\_11 Start: 6888, Stop: 8585, Start Num: 62

Candidate Starts for Gadost\_11:

(Start: 62 @6888 has 371 MA's), (Start: 81 @6912 has 1 MA's), (Start: 148 @7035 has 2 MA's), (196,  
7125), (213, 7158), (238, 7257), (263, 7341), (265, 7344), (276, 7383), (299, 7452), (303, 7476), (Start:  
313 @7542 has 1 MA's), (335, 7632), (379, 7797), (401, 7884), (408, 7917), (438, 7983), (463, 8055),  
(464, 8058), (471, 8082), (494, 8133), (498, 8148), (511, 8187), (516, 8208), (545, 8304), (636, 8541),  
(656, 8571), (658, 8574),

Gene: GageAP\_13 Start: 7736, Stop: 9424, Start Num: 70

Candidate Starts for GageAP\_13:

(Start: 70 @7736 has 45 MA's), (Start: 179 @7916 has 2 MA's), (213, 8000), (216, 8027), (219, 8036),  
(265, 8186), (274, 8219), (299, 8294), (Start: 313 @8384 has 1 MA's), (319, 8408), (327, 8435), (337,  
8483), (359, 8552), (379, 8639), (392, 8699), (472, 8924), (477, 8933), (481, 8945), (498, 8987), (505,  
9008), (515, 9035), (545, 9143), (594, 9233), (621, 9338),

Gene: Gail\_11 Start: 6548, Stop: 8305, Start Num: 63

Candidate Starts for Gail\_11:

(Start: 63 @6548 has 231 MA's), (Start: 80 @6569 has 5 MA's), (131, 6656), (143, 6680), (159, 6734),  
(162, 6746), (165, 6755), (173, 6779), (189, 6830), (263, 7061), (265, 7064), (299, 7175), (303, 7199),  
(Start: 313 @7265 has 1 MA's), (319, 7289), (335, 7355), (357, 7421), (382, 7529), (400, 7604), (464,  
7781), (468, 7793), (471, 7805), (472, 7808), (475, 7814), (498, 7868), (516, 7928), (545, 8024), (576,  
8093), (636, 8261), (654, 8288),

Gene: Galactic\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Galactic\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start:  
134 @628 has 1 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844),  
(233, 904), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (267, 997), (282, 1054), (296,  
1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338,  
1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478,  
1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543,  
1903), (547, 1912), (560, 1945), (569, 1963), (576, 1978), (593, 2005), (605, 2038), (611, 2065), (612,  
2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Gambol\_2 Start: 593, Stop: 2281, Start Num: 90

Candidate Starts for Gambol\_2:

(Start: 90 @593 has 17 MA's), (201, 794), (243, 938), (250, 962), (265, 1007), (295, 1094), (305, 1148),  
(312, 1187), (344, 1322), (371, 1424), (409, 1535), (453, 1646), (464, 1697), (545, 1952), (553, 1967),  
(624, 2192), (627, 2204), (634, 2219),

Gene: Gandalf20\_12 Start: 7804, Stop: 9492, Start Num: 62

Candidate Starts for Gandalf20\_12:

(Start: 62 @7804 has 371 MA's), (Start: 179 @7984 has 2 MA's), (213, 8068), (219, 8104), (225, 8131),  
(265, 8254), (299, 8362), (Start: 313 @8452 has 1 MA's), (319, 8476), (337, 8551), (379, 8707), (392,  
8767), (472, 8992), (477, 9001), (481, 9013), (498, 9055), (505, 9076), (515, 9103), (545, 9211), (594,  
9301), (621, 9406),

Gene: Gandolph\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Gandolph\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Garak\_16 Start: 7533, Stop: 9287, Start Num: 63

Candidate Starts for Garak\_16:

(Start: 63 @7533 has 231 MA's), (143, 7665), (173, 7764), (182, 7788), (189, 7815), (203, 7851), (225, 7926), (265, 8049), (269, 8064), (276, 8088), (299, 8157), (303, 8181), (304, 8184), (Start: 313 @8247 has 1 MA's), (319, 8271), (356, 8400), (357, 8403), (383, 8514), (432, 8676), (464, 8763), (468, 8775), (471, 8787), (494, 8835), (498, 8850), (511, 8889), (516, 8910), (539, 8994), (545, 9006), (636, 9243), (654, 9270), (656, 9273),

Gene: GardenState\_2 Start: 501, Stop: 2183, Start Num: 83

Candidate Starts for GardenState\_2:

(Start: 83 @501 has 13 MA's), (118, 555), (225, 798), (243, 852), (265, 921), (274, 957), (367, 1317), (545, 1857), (627, 2109),

Gene: Gattaca\_34 Start: 10300, Stop: 12042, Start Num: 101

Candidate Starts for Gattaca\_34:

(Start: 101 @10300 has 80 MA's), (175, 10417), (189, 10462), (206, 10528), (208, 10543), (215, 10576), (216, 10579), (221, 10594), (226, 10618), (227, 10621), (238, 10651), (244, 10672), (246, 10690), (249, 10699), (256, 10735), (265, 10750), (278, 10795), (296, 10837), (301, 10876), (305, 10888), (307, 10909), (320, 10960), (327, 10981), (388, 11203), (412, 11308), (414, 11317), (447, 11350), (455, 11371), (456, 11374), (460, 11401), (464, 11431), (468, 11443), (472, 11458), (477, 11467), (479, 11473), (493, 11515), (495, 11524), (500, 11539), (505, 11554), (523, 11614), (531, 11653), (540, 11686), (556, 11716), (557, 11719), (583, 11803), (599, 11857), (604, 11872), (612, 11899), (624, 11953), (654, 12025), (656, 12028),

Gene: GaugeLDP\_14 Start: 8787, Stop: 10547, Start Num: 63

Candidate Starts for GaugeLDP\_14:

(Start: 63 @8787 has 231 MA's), (128, 8895), (138, 8916), (169, 9006), (173, 9024), (263, 9306), (265, 9309), (276, 9348), (299, 9417), (Start: 313 @9507 has 1 MA's), (319, 9531), (344, 9630), (356, 9660), (357, 9663), (438, 9948), (464, 10023), (468, 10035), (471, 10047), (502, 10122), (512, 10152), (516, 10170), (539, 10254), (545, 10266), (576, 10335), (636, 10503), (654, 10530), (656, 10533),

Gene: Geeche\_29 Start: 8502, Stop: 10250, Start Num: 102

Candidate Starts for Geeche\_29:

(Start: 102 @8502 has 27 MA's), (120, 8532), (187, 8661), (235, 8847), (241, 8886), (249, 8910), (263, 8958), (271, 8985), (280, 9015), (326, 9207), (329, 9225), (370, 9387), (390, 9435), (396, 9450), (453, 9633), (455, 9639), (471, 9723), (501, 9810), (512, 9843), (541, 9957), (558, 9993), (569, 10017), (579, 10032), (640, 10206), (644, 10212),

Gene: Gemma\_13 Start: 7029, Stop: 8729, Start Num: 65

Candidate Starts for Gemma\_13:

(Start: 65 @7029 has 85 MA's), (94, 7077), (Start: 137 @7149 has 1 MA's), (175, 7212), (265, 7491), (Start: 313 @7689 has 1 MA's), (335, 7779), (356, 7842), (392, 8004), (464, 8202), (471, 8226), (472,

8229), (498, 8292), (502, 8304), (505, 8313), (511, 8331), (516, 8352), (545, 8448), (569, 8502), (594, 8538), (636, 8685), (656, 8715), (658, 8718),

Gene: George\_8 Start: 6161, Stop: 7939, Start Num: 37

Candidate Starts for George\_8:

(Start: 37 @6161 has 19 MA's), (Start: 42 @6188 has 30 MA's), (73, 6257), (140, 6371), (143, 6377), (203, 6509), (225, 6584), (226, 6587), (238, 6620), (248, 6653), (284, 6761), (291, 6785), (299, 6818), (Start: 313 @6893 has 1 MA's), (324, 6938), (342, 7016), (344, 7022), (395, 7220), (401, 7241), (464, 7415), (471, 7439), (472, 7442), (498, 7502), (502, 7514), (511, 7541), (516, 7562), (539, 7646), (545, 7658), (636, 7895), (658, 7928), (660, 7934),

Gene: Georgie2\_13 Start: 7387, Stop: 9174, Start Num: 63

Candidate Starts for Georgie2\_13:

(Start: 63 @7387 has 231 MA's), (128, 7495), (138, 7516), (173, 7624), (225, 7786), (263, 7906), (265, 7909), (299, 8017), (Start: 313 @8107 has 1 MA's), (319, 8131), (351, 8248), (357, 8263), (433, 8563), (502, 8749), (511, 8776), (516, 8797), (545, 8893), (636, 9130), (654, 9157), (656, 9160),

Gene: Geralt\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Geralt\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Ghoulboy\_9 Start: 6238, Stop: 8016, Start Num: 37

Candidate Starts for Ghoulboy\_9:

(Start: 37 @6238 has 19 MA's), (Start: 42 @6265 has 30 MA's), (73, 6334), (97, 6373), (140, 6448), (143, 6454), (203, 6586), (225, 6661), (226, 6664), (248, 6730), (284, 6838), (291, 6862), (Start: 313 @6970 has 1 MA's), (324, 7015), (342, 7093), (344, 7099), (345, 7102), (385, 7264), (386, 7270), (395, 7297), (464, 7492), (471, 7516), (498, 7579), (502, 7591), (511, 7618), (516, 7639), (531, 7693), (539, 7723), (545, 7735), (636, 7972), (658, 8005), (660, 8011),

Gene: GiKK\_7 Start: 1487, Stop: 3187, Start Num: 99

Candidate Starts for GiKK\_7:

(Start: 99 @1487 has 202 MA's), (Start: 137 @1541 has 1 MA's), (147, 1562), (157, 1589), (192, 1664), (203, 1700), (226, 1778), (248, 1853), (252, 1877), (265, 1907), (278, 1958), (305, 2057), (326, 2147), (347, 2237), (362, 2291), (383, 2366), (408, 2480), (412, 2504), (453, 2564), (455, 2570), (466, 2636), (468, 2642), (498, 2726), (505, 2747), (523, 2807), (524, 2813), (533, 2846), (592, 2969), (600, 2990), (623, 3080), (624, 3083), (635, 3113), (656, 3173), (658, 3176),

Gene: Gibbous\_4 Start: 1229, Stop: 2923, Start Num: 101

Candidate Starts for Gibbous\_4:

(Start: 101 @1229 has 80 MA's), (120, 1259), (143, 1292), (147, 1301), (203, 1439), (250, 1601), (252, 1616), (265, 1646), (270, 1667), (278, 1697), (299, 1766), (301, 1784), (305, 1796), (307, 1817), (326, 1886), (335, 1928), (383, 2105), (391, 2156), (408, 2219), (412, 2243), (436, 2276), (454, 2309), (466, 2378), (493, 2453), (495, 2462), (498, 2471), (502, 2483), (504, 2489), (511, 2510), (556, 2648), (611, 2771), (632, 2852), (656, 2909), (658, 2912),

Gene: GigiOuiOui\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for GigiOuiOui\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Gilberta\_12 Start: 8021, Stop: 9784, Start Num: 63

Candidate Starts for Gilberta\_12:

(Start: 63 @8021 has 231 MA's), (Start: 80 @8042 has 5 MA's), (128, 8129), (173, 8258), (182, 8282), (203, 8345), (248, 8489), (263, 8540), (265, 8543), (299, 8654), (303, 8678), (304, 8681), (Start: 313 @8744 has 1 MA's), (316, 8753), (319, 8768), (351, 8885), (357, 8900), (368, 8960), (389, 9044), (468, 9272), (471, 9284), (494, 9332), (498, 9347), (511, 9386), (516, 9407), (527, 9446), (539, 9491), (545, 9503), (636, 9740), (654, 9767),

Gene: GingkoMaracino\_13 Start: 6843, Stop: 8543, Start Num: 65

Candidate Starts for GingkoMaracino\_13:

(Start: 65 @6843 has 85 MA's), (94, 6891), (Start: 137 @6963 has 1 MA's), (175, 7026), (238, 7218), (265, 7305), (Start: 313 @7503 has 1 MA's), (335, 7593), (356, 7656), (392, 7818), (464, 8016), (471, 8040), (472, 8043), (498, 8106), (505, 8127), (516, 8166), (545, 8262), (569, 8316), (594, 8352), (636, 8499), (656, 8529), (658, 8532),

Gene: Giorgio\_2 Start: 595, Stop: 2283, Start Num: 90

Candidate Starts for Giorgio\_2:

(Start: 90 @595 has 17 MA's), (243, 940), (250, 964), (265, 1009), (295, 1096), (305, 1150), (312, 1189), (344, 1324), (371, 1426), (453, 1648), (464, 1699), (533, 1918), (545, 1954), (553, 1969), (624, 2194), (627, 2206), (634, 2221), (658, 2272),

Gene: GirlDinner\_6 Start: 2186, Stop: 3832, Start Num: 59

Candidate Starts for GirlDinner\_6:

(Start: 59 @2186 has 85 MA's), (201, 2429), (203, 2444), (213, 2456), (246, 2582), (255, 2624), (257, 2630), (266, 2645), (296, 2732), (307, 2804), (Start: 313 @2828 has 1 MA's), (338, 2927), (347, 2963), (357, 2981), (396, 3104), (405, 3140), (468, 3302), (470, 3311), (494, 3374), (511, 3428), (533, 3509), (545, 3548), (556, 3569), (563, 3593), (623, 3746), (624, 3749),

Gene: Giroux\_12 Start: 6496, Stop: 8193, Start Num: 62

Candidate Starts for Giroux\_12:

(Start: 62 @6496 has 371 MA's), (Start: 81 @6520 has 1 MA's), (109, 6568), (213, 6766), (225, 6829), (257, 6940), (265, 6952), (276, 6991), (283, 7003), (299, 7060), (303, 7084), (Start: 313 @7150 has 1 MA's), (316, 7159), (335, 7240), (342, 7267), (379, 7405), (401, 7492), (408, 7525), (438, 7591), (464, 7666), (471, 7690), (472, 7693), (475, 7699), (479, 7708), (494, 7741), (498, 7756), (516, 7816), (545, 7912), (563, 7957), (569, 7966), (625, 8119), (636, 8149), (656, 8179), (658, 8182),

Gene: Girr\_2 Start: 573, Stop: 2210, Start Num: 99

Candidate Starts for Girr\_2:

(Start: 99 @573 has 202 MA's), (Start: 105 @582 has 2 MA's), (Start: 115 @597 has 3 MA's), (Start: 127 @618 has 1 MA's), (Start: 144 @654 has 2 MA's), (146, 657), (153, 675), (185, 720), (200, 759), (222, 846), (233, 906), (245, 930), (248, 939), (249, 942), (252, 963), (258, 984), (267, 999), (282, 1056), (296, 1095), (306, 1164), (309, 1170), (317, 1200), (318, 1203), (319, 1212), (323, 1227), (327, 1245), (338, 1296), (364, 1389), (367, 1398), (417, 1569), (435, 1581), (464, 1665), (474, 1695), (476,

1698), (478, 1701), (498, 1758), (503, 1773), (505, 1779), (506, 1782), (511, 1797), (514, 1806), (532, 1875), (543, 1905), (547, 1914), (560, 1947), (576, 1980), (593, 2007), (605, 2040), (612, 2070), (617, 2091), (621, 2115), (624, 2124), (625, 2127), (650, 2184),

Gene: Gladiator\_15 Start: 7507, Stop: 9261, Start Num: 63

Candidate Starts for Gladiator\_15:

(Start: 63 @7507 has 231 MA's), (143, 7639), (173, 7738), (182, 7762), (189, 7789), (203, 7825), (225, 7900), (265, 8023), (269, 8038), (276, 8062), (299, 8131), (303, 8155), (304, 8158), (Start: 313 @8221 has 1 MA's), (319, 8245), (356, 8374), (357, 8377), (383, 8488), (432, 8650), (464, 8737), (468, 8749), (471, 8761), (494, 8809), (498, 8824), (516, 8884), (539, 8968), (545, 8980), (636, 9217), (654, 9244), (656, 9247),

Gene: Goby\_6 Start: 2377, Stop: 4023, Start Num: 59

Candidate Starts for Goby\_6:

(Start: 59 @2377 has 85 MA's), (Start: 75 @2395 has 21 MA's), (189, 2599), (203, 2635), (255, 2815), (266, 2836), (296, 2923), (307, 2995), (Start: 313 @3019 has 1 MA's), (338, 3118), (342, 3133), (351, 3157), (353, 3163), (405, 3331), (425, 3391), (464, 3481), (470, 3502), (502, 3592), (516, 3640), (545, 3739), (556, 3760), (558, 3766), (563, 3784), (624, 3940),

Gene: Godpower\_7 Start: 2380, Stop: 4026, Start Num: 59

Candidate Starts for Godpower\_7:

(Start: 59 @2380 has 85 MA's), (Start: 75 @2398 has 21 MA's), (189, 2602), (203, 2638), (255, 2818), (266, 2839), (296, 2926), (307, 2998), (Start: 313 @3022 has 1 MA's), (338, 3121), (342, 3136), (351, 3160), (353, 3166), (405, 3334), (464, 3484), (470, 3505), (502, 3595), (533, 3703), (545, 3742), (556, 3763), (558, 3769), (563, 3787), (624, 3943),

Gene: GoldHunter\_5 Start: 1113, Stop: 2792, Start Num: 101

Candidate Starts for GoldHunter\_5:

(Start: 101 @1113 has 80 MA's), (Start: 137 @1164 has 1 MA's), (147, 1185), (Start: 148 @1188 has 2 MA's), (177, 1230), (203, 1311), (224, 1377), (225, 1386), (246, 1458), (250, 1473), (259, 1509), (265, 1518), (278, 1569), (305, 1668), (316, 1722), (326, 1758), (362, 1902), (372, 1938), (383, 1977), (388, 2010), (401, 2058), (408, 2091), (412, 2115), (436, 2148), (455, 2181), (463, 2238), (466, 2247), (496, 2331), (523, 2418), (556, 2514), (596, 2586), (599, 2598), (632, 2718), (656, 2778), (658, 2781),

Gene: Gollum\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Gollum\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Gompeii16\_11 Start: 7207, Stop: 8895, Start Num: 62

Candidate Starts for Gompeii16\_11:

(Start: 62 @7207 has 371 MA's), (213, 7471), (215, 7495), (265, 7657), (274, 7690), (299, 7765), (Start: 313 @7855 has 1 MA's), (319, 7879), (327, 7906), (337, 7954), (379, 8110), (392, 8170), (472, 8395), (477, 8404), (481, 8416), (498, 8458), (505, 8479), (515, 8506), (545, 8614), (594, 8704), (621, 8809),

Gene: GoongGoong\_34 Start: 10340, Stop: 12082, Start Num: 101

Candidate Starts for GoongGoong\_34:

(Start: 101 @10340 has 80 MA's), (175, 10457), (189, 10502), (206, 10568), (208, 10583), (215, 10616), (216, 10619), (221, 10634), (226, 10658), (227, 10661), (238, 10691), (244, 10712), (246, 10730), (249, 10739), (256, 10775), (265, 10790), (278, 10835), (296, 10877), (301, 10916), (305,

10928), (307, 10949), (320, 11000), (327, 11021), (388, 11243), (412, 11348), (414, 11357), (447, 11390), (455, 11411), (456, 11414), (460, 11441), (464, 11471), (468, 11483), (472, 11498), (477, 11507), (479, 11513), (493, 11555), (495, 11564), (500, 11579), (505, 11594), (523, 11654), (531, 11693), (540, 11726), (556, 11756), (557, 11759), (583, 11843), (599, 11897), (604, 11912), (612, 11939), (624, 11993), (654, 12065), (656, 12068),

Gene: Goose\_11 Start: 6707, Stop: 8380, Start Num: 62

Candidate Starts for Goose\_11:

(Start: 62 @6707 has 371 MA's), (Start: 148 @6836 has 2 MA's), (185, 6902), (213, 6968), (222, 7013), (238, 7067), (250, 7109), (265, 7154), (276, 7193), (296, 7241), (299, 7262), (303, 7286), (Start: 313 @7337 has 1 MA's), (344, 7460), (362, 7529), (384, 7607), (397, 7667), (408, 7712), (438, 7778), (463, 7850), (464, 7853), (471, 7877), (498, 7943), (511, 7982), (512, 7985), (516, 8003), (545, 8099), (576, 8168), (636, 8336), (656, 8366), (658, 8369),

Gene: Gorge\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Gorge\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (358, 1346), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Graduation\_13 Start: 7769, Stop: 9457, Start Num: 62

Candidate Starts for Graduation\_13:

(Start: 62 @7769 has 371 MA's), (213, 8033), (215, 8057), (265, 8219), (274, 8252), (299, 8327), (Start: 313 @8417 has 1 MA's), (319, 8441), (337, 8516), (379, 8672), (382, 8681), (391, 8729), (392, 8732), (472, 8957), (477, 8966), (481, 8978), (498, 9020), (505, 9041), (515, 9068), (545, 9176), (594, 9266), (621, 9371),

Gene: Gratitude\_13 Start: 7926, Stop: 9713, Start Num: 63

Candidate Starts for Gratitude\_13:

(16, 7740), (35, 7842), (Start: 63 @7926 has 231 MA's), (128, 8034), (138, 8055), (169, 8145), (173, 8163), (248, 8394), (263, 8445), (265, 8448), (299, 8556), (Start: 313 @8646 has 1 MA's), (319, 8670), (357, 8802), (464, 9189), (511, 9315), (516, 9336), (539, 9420), (545, 9432), (636, 9669), (654, 9696), (656, 9699), (658, 9702), (659, 9705),

Gene: GrecoEtereo\_12 Start: 7307, Stop: 8995, Start Num: 62

Candidate Starts for GrecoEtereo\_12:

(Start: 62 @7307 has 371 MA's), (213, 7571), (215, 7595), (265, 7757), (274, 7790), (299, 7865), (Start: 313 @7955 has 1 MA's), (319, 7979), (327, 8006), (337, 8054), (359, 8123), (379, 8210), (392, 8270), (477, 8504), (498, 8558), (505, 8579), (515, 8606), (545, 8714), (594, 8804), (621, 8909),

Gene: GreedyLawyer\_15 Start: 7533, Stop: 9287, Start Num: 63

Candidate Starts for GreedyLawyer\_15:

(Start: 63 @7533 has 231 MA's), (173, 7764), (189, 7815), (203, 7851), (225, 7926), (265, 8049), (276, 8088), (299, 8157), (303, 8181), (304, 8184), (Start: 313 @8247 has 1 MA's), (319, 8271), (344, 8370), (345, 8373), (356, 8400), (357, 8403), (438, 8688), (468, 8775), (471, 8787), (498, 8850), (511, 8889), (516, 8910), (539, 8994), (545, 9006), (636, 9243), (654, 9270), (656, 9273),

Gene: GreenWeasel\_8 Start: 3065, Stop: 4069, Start Num: 313

Candidate Starts for GreenWeasel\_8:

(304, 3017), (307, 3041), (Start: 313 @3065 has 1 MA's), (335, 3152), (338, 3164), (357, 3218), (362, 3254), (368, 3278), (396, 3341), (405, 3377), (456, 3485), (468, 3539), (470, 3548), (475, 3560), (494, 3611), (502, 3638), (533, 3746), (545, 3785), (558, 3812), (563, 3830), (595, 3878), (618, 3965), (624, 3986), (660, 4064),

Gene: Greg\_13 Start: 7320, Stop: 9008, Start Num: 70

Candidate Starts for Greg\_13:

(Start: 70 @7320 has 45 MA's), (175, 7491), (Start: 179 @7500 has 2 MA's), (213, 7584), (216, 7611), (219, 7620), (265, 7770), (274, 7803), (299, 7878), (Start: 313 @7968 has 1 MA's), (319, 7992), (327, 8019), (337, 8067), (379, 8223), (392, 8283), (477, 8517), (498, 8571), (505, 8592), (515, 8619), (545, 8727), (594, 8817), (621, 8922),

Gene: Gretchen\_2 Start: 640, Stop: 2388, Start Num: 83

Candidate Starts for Gretchen\_2:

(Start: 83 @640 has 13 MA's), (97, 658), (243, 1000), (255, 1051), (265, 1069), (293, 1162), (305, 1219), (409, 1642), (464, 1804), (466, 1810), (523, 1984), (545, 2059), (553, 2074), (582, 2155), (618, 2278), (624, 2299), (627, 2311),

Gene: Grif\_13 Start: 7040, Stop: 8740, Start Num: 65

Candidate Starts for Grif\_13:

(Start: 65 @7040 has 85 MA's), (94, 7088), (175, 7223), (238, 7415), (265, 7502), (Start: 313 @7700 has 1 MA's), (335, 7790), (356, 7853), (392, 8015), (464, 8213), (471, 8237), (472, 8240), (498, 8303), (505, 8324), (516, 8363), (545, 8459), (569, 8513), (594, 8549), (636, 8696), (656, 8726), (658, 8729),

Gene: Grimmer\_3 Start: 1235, Stop: 2872, Start Num: 99

Candidate Starts for Grimmer\_3:

(Start: 91 @1232 has 1 MA's), (Start: 99 @1235 has 202 MA's), (Start: 115 @1259 has 3 MA's), (118, 1265), (Start: 127 @1280 has 1 MA's), (Start: 134 @1292 has 1 MA's), (Start: 144 @1316 has 2 MA's), (146, 1319), (185, 1382), (189, 1400), (200, 1421), (222, 1508), (223, 1514), (233, 1568), (241, 1580), (245, 1592), (248, 1601), (249, 1604), (252, 1625), (258, 1646), (282, 1718), (296, 1757), (306, 1826), (309, 1832), (317, 1862), (318, 1865), (319, 1874), (323, 1889), (327, 1907), (338, 1958), (367, 2060), (417, 2231), (435, 2243), (464, 2327), (474, 2357), (476, 2360), (478, 2363), (498, 2420), (503, 2435), (505, 2441), (506, 2444), (511, 2459), (514, 2468), (532, 2537), (543, 2567), (569, 2627), (576, 2642), (593, 2669), (605, 2702), (609, 2723), (611, 2729), (612, 2732), (617, 2753), (621, 2777), (624, 2786), (625, 2789), (650, 2846),

Gene: GrootJr\_26 Start: 12510, Stop: 14237, Start Num: 96

Candidate Starts for GrootJr\_26:

(19, 12276), (43, 12405), (Start: 96 @12510 has 12 MA's), (184, 12660), (197, 12711), (200, 12717), (212, 12756), (216, 12786), (223, 12810), (225, 12828), (229, 12855), (236, 12918), (241, 12936), (317, 13221), (323, 13248), (343, 13332), (367, 13416), (371, 13428), (380, 13461), (405, 13539), (444, 13617), (464, 13689), (476, 13722), (492, 13785), (498, 13812), (506, 13836), (514, 13860), (547, 13959), (567, 14007), (621, 14145), (629, 14175), (659, 14229),

Gene: GroundGoblin\_12 Start: 7559, Stop: 9247, Start Num: 62

Candidate Starts for GroundGoblin\_12:

(Start: 62 @7559 has 371 MA's), (Start: 179 @7739 has 2 MA's), (213, 7823), (219, 7859), (225, 7886), (265, 8009), (274, 8042), (299, 8117), (Start: 313 @8207 has 1 MA's), (319, 8231), (327, 8258), (337, 8306), (359, 8375), (375, 8450), (379, 8462), (382, 8471), (392, 8522), (472, 8747), (477, 8756), (481, 8768), (498, 8810), (505, 8831), (515, 8858), (545, 8966), (594, 9056), (621, 9161),

Gene: Groundhog\_8 Start: 5670, Stop: 7424, Start Num: 42

Candidate Starts for Groundhog\_8:

(Start: 42 @5670 has 30 MA's), (Start: 54 @5712 has 7 MA's), (Start: 81 @5751 has 1 MA's), (143, 5859), (225, 6066), (291, 6267), (Start: 313 @6375 has 1 MA's), (344, 6504), (385, 6669), (395, 6702), (441, 6822), (464, 6897), (505, 7008), (511, 7026), (516, 7047), (531, 7101), (545, 7143), (599, 7248), (624, 7347), (636, 7380), (658, 7413), (660, 7419),

Gene: Groupthink\_14 Start: 7029, Stop: 8729, Start Num: 65

Candidate Starts for Groupthink\_14:

(Start: 65 @7029 has 85 MA's), (94, 7077), (Start: 137 @7149 has 1 MA's), (175, 7212), (265, 7491), (Start: 313 @7689 has 1 MA's), (335, 7779), (356, 7842), (392, 8004), (464, 8202), (471, 8226), (472, 8229), (498, 8292), (502, 8304), (505, 8313), (511, 8331), (516, 8352), (545, 8448), (569, 8502), (594, 8538), (636, 8685), (656, 8715), (658, 8718),

Gene: Grub\_13 Start: 6949, Stop: 8649, Start Num: 65

Candidate Starts for Grub\_13:

(Start: 65 @6949 has 85 MA's), (94, 6997), (175, 7132), (238, 7324), (265, 7411), (Start: 313 @7609 has 1 MA's), (335, 7699), (356, 7762), (392, 7924), (464, 8122), (471, 8146), (472, 8149), (498, 8212), (505, 8233), (516, 8272), (545, 8368), (569, 8422), (594, 8458), (636, 8605), (656, 8635), (658, 8638),

Gene: Grum1\_13 Start: 6950, Stop: 8650, Start Num: 65

Candidate Starts for Grum1\_13:

(Start: 65 @6950 has 85 MA's), (94, 6998), (175, 7133), (238, 7325), (265, 7412), (Start: 313 @7610 has 1 MA's), (335, 7700), (356, 7763), (392, 7925), (464, 8123), (471, 8147), (472, 8150), (498, 8213), (505, 8234), (516, 8273), (545, 8369), (569, 8423), (594, 8459), (636, 8606), (656, 8636), (658, 8639),

Gene: Gruunaga\_15 Start: 7507, Stop: 9261, Start Num: 63

Candidate Starts for Gruunaga\_15:

(Start: 63 @7507 has 231 MA's), (143, 7639), (173, 7738), (182, 7762), (189, 7789), (203, 7825), (225, 7900), (265, 8023), (269, 8038), (276, 8062), (299, 8131), (303, 8155), (304, 8158), (Start: 313 @8221 has 1 MA's), (319, 8245), (356, 8374), (357, 8377), (383, 8488), (432, 8650), (464, 8737), (468, 8749), (471, 8761), (494, 8809), (498, 8824), (516, 8884), (539, 8968), (545, 8980), (636, 9217), (654, 9244), (656, 9247),

Gene: GtownJaz\_13 Start: 6958, Stop: 8658, Start Num: 65

Candidate Starts for GtownJaz\_13:

(Start: 65 @6958 has 85 MA's), (94, 7006), (175, 7141), (238, 7333), (265, 7420), (Start: 313 @7618 has 1 MA's), (335, 7708), (356, 7771), (392, 7933), (464, 8131), (471, 8155), (472, 8158), (498, 8221), (505, 8242), (516, 8281), (545, 8377), (569, 8431), (594, 8467), (636, 8614), (656, 8644), (658, 8647),

Gene: Gumpizza\_2 Start: 594, Stop: 2282, Start Num: 90

Candidate Starts for Gumpizza\_2:

(Start: 90 @594 has 17 MA's), (201, 795), (243, 939), (265, 1008), (295, 1095), (305, 1149), (312, 1188), (344, 1323), (371, 1425), (453, 1647), (464, 1698), (533, 1917), (545, 1953), (553, 1968), (624, 2193), (627, 2205), (634, 2220), (658, 2271),

Gene: Guppsters\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Guppsters\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514,

1820), (532, 1889), (543, 1919), (547, 1928), (569, 1979), (576, 1994), (593, 2021), (605, 2054), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: GuyFagieri\_28 Start: 13785, Stop: 15458, Start Num: 99

Candidate Starts for GuyFagieri\_28:

(Start: 99 @13785 has 202 MA's), (184, 13929), (191, 13959), (197, 13980), (220, 14067), (241, 14154), (248, 14175), (252, 14199), (262, 14226), (272, 14259), (293, 14325), (302, 14373), (317, 14436), (323, 14463), (360, 14592), (367, 14631), (371, 14643), (405, 14754), (416, 14805), (464, 14901), (465, 14904), (492, 15003), (502, 15042), (506, 15054), (511, 15069), (531, 15144), (547, 15177), (560, 15210), (605, 15294), (609, 15315), (621, 15363), (653, 15438), (659, 15450),

Gene: Gwendoluna\_13 Start: 8188, Stop: 9876, Start Num: 62

Candidate Starts for Gwendoluna\_13:

(Start: 62 @8188 has 371 MA's), (213, 8452), (215, 8476), (265, 8638), (274, 8671), (Start: 313 @8836 has 1 MA's), (319, 8860), (327, 8887), (337, 8935), (379, 9091), (392, 9151), (477, 9385), (481, 9397), (498, 9439), (505, 9460), (515, 9487), (545, 9595), (594, 9685), (621, 9790),

Gene: Gwennie\_12 Start: 6957, Stop: 8657, Start Num: 65

Candidate Starts for Gwennie\_12:

(Start: 65 @6957 has 85 MA's), (94, 7005), (175, 7140), (238, 7332), (265, 7419), (Start: 313 @7617 has 1 MA's), (335, 7707), (356, 7770), (392, 7932), (464, 8130), (471, 8154), (472, 8157), (498, 8220), (505, 8241), (516, 8280), (545, 8376), (569, 8430), (594, 8466), (636, 8613), (656, 8643), (658, 8646),

Gene: Gyzlar\_13 Start: 7950, Stop: 9638, Start Num: 70

Candidate Starts for Gyzlar\_13:

(Start: 70 @7950 has 45 MA's), (Start: 179 @8130 has 2 MA's), (213, 8214), (216, 8241), (219, 8250), (265, 8400), (274, 8433), (299, 8508), (Start: 313 @8598 has 1 MA's), (319, 8622), (327, 8649), (337, 8697), (379, 8853), (392, 8913), (477, 9147), (481, 9159), (498, 9201), (505, 9222), (515, 9249), (545, 9357), (594, 9447), (621, 9552),

Gene: HINdeR\_11 Start: 8169, Stop: 9863, Start Num: 62

Candidate Starts for HINdeR\_11:

(Start: 62 @8169 has 371 MA's), (Start: 102 @8229 has 27 MA's), (189, 8388), (213, 8436), (225, 8499), (238, 8535), (248, 8568), (257, 8610), (263, 8619), (265, 8622), (269, 8637), (276, 8661), (299, 8730), (Start: 313 @8820 has 1 MA's), (316, 8829), (357, 8976), (379, 9075), (391, 9132), (401, 9162), (408, 9195), (432, 9249), (438, 9261), (449, 9270), (463, 9333), (464, 9336), (471, 9360), (501, 9435), (502, 9438), (516, 9486), (545, 9582), (625, 9789), (636, 9819), (656, 9849),

Gene: Hades\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Hades\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Haizum\_6 Start: 2173, Stop: 3822, Start Num: 59

Candidate Starts for Haizum\_6:

(Start: 59 @2173 has 85 MA's), (131, 2290), (182, 2371), (189, 2398), (213, 2446), (Start: 218 @2479 has 2 MA's), (224, 2500), (250, 2587), (255, 2614), (266, 2635), (282, 2680), (296, 2722), (307, 2794),

(Start: 313 @2818 has 1 MA's), (338, 2917), (347, 2953), (357, 2971), (395, 3091), (396, 3094), (405, 3130), (441, 3211), (470, 3301), (475, 3313), (494, 3364), (511, 3418), (545, 3538), (556, 3559), (562, 3580), (563, 3583), (599, 3643), (624, 3739), (625, 3742), (660, 3817),

Gene: Halsey\_2 Start: 594, Stop: 2282, Start Num: 90

Candidate Starts for Halsey\_2:

(Start: 90 @594 has 17 MA's), (243, 939), (250, 963), (265, 1008), (295, 1095), (305, 1149), (312, 1188), (344, 1323), (371, 1425), (453, 1647), (464, 1698), (533, 1917), (545, 1953), (553, 1968), (624, 2193), (627, 2205), (634, 2220), (658, 2271),

Gene: HamSlice\_10 Start: 6885, Stop: 8582, Start Num: 62

Candidate Starts for HamSlice\_10:

(Start: 62 @6885 has 371 MA's), (Start: 81 @6909 has 1 MA's), (Start: 148 @7032 has 2 MA's), (196, 7122), (213, 7155), (238, 7254), (263, 7338), (265, 7341), (276, 7380), (299, 7449), (303, 7473), (Start: 313 @7539 has 1 MA's), (335, 7629), (379, 7794), (401, 7881), (408, 7914), (438, 7980), (463, 8052), (464, 8055), (471, 8079), (494, 8130), (498, 8145), (511, 8184), (516, 8205), (545, 8301), (636, 8538), (656, 8568), (658, 8571),

Gene: Hami1\_13 Start: 7391, Stop: 9079, Start Num: 62

Candidate Starts for Hami1\_13:

(Start: 62 @7391 has 371 MA's), (Start: 179 @7571 has 2 MA's), (213, 7655), (219, 7691), (265, 7841), (299, 7949), (Start: 313 @8039 has 1 MA's), (319, 8063), (337, 8138), (359, 8207), (379, 8294), (392, 8354), (472, 8579), (477, 8588), (481, 8600), (498, 8642), (505, 8663), (515, 8690), (545, 8798), (594, 8888), (621, 8993),

Gene: Hammer\_15 Start: 7507, Stop: 9261, Start Num: 63

Candidate Starts for Hammer\_15:

(Start: 63 @7507 has 231 MA's), (143, 7639), (173, 7738), (182, 7762), (189, 7789), (203, 7825), (225, 7900), (265, 8023), (269, 8038), (276, 8062), (299, 8131), (303, 8155), (304, 8158), (Start: 313 @8221 has 1 MA's), (319, 8245), (356, 8374), (357, 8377), (383, 8488), (432, 8650), (464, 8737), (468, 8749), (471, 8761), (494, 8809), (498, 8824), (511, 8863), (516, 8884), (539, 8968), (545, 8980), (636, 9217), (654, 9244), (656, 9247),

Gene: Hamulus\_2 Start: 588, Stop: 2225, Start Num: 99

Candidate Starts for Hamulus\_2:

(Start: 99 @588 has 202 MA's), (109, 603), (Start: 115 @612 has 3 MA's), (118, 618), (Start: 134 @645 has 1 MA's), (Start: 144 @669 has 2 MA's), (146, 672), (185, 735), (189, 753), (200, 774), (222, 861), (223, 867), (233, 921), (241, 933), (245, 945), (248, 954), (249, 957), (252, 978), (258, 999), (267, 1014), (282, 1071), (296, 1110), (306, 1179), (309, 1185), (317, 1215), (318, 1218), (319, 1227), (323, 1242), (327, 1260), (338, 1311), (367, 1413), (417, 1584), (435, 1596), (450, 1614), (464, 1680), (474, 1710), (476, 1713), (478, 1716), (498, 1773), (503, 1788), (505, 1794), (506, 1797), (511, 1812), (514, 1821), (532, 1890), (543, 1920), (547, 1929), (560, 1962), (576, 1995), (593, 2022), (605, 2055), (611, 2082), (612, 2085), (617, 2106), (621, 2130), (624, 2139), (625, 2142), (650, 2199),

Gene: HanShotFirst\_11 Start: 6611, Stop: 8299, Start Num: 62

Candidate Starts for HanShotFirst\_11:

(Start: 62 @6611 has 371 MA's), (Start: 179 @6791 has 2 MA's), (213, 6875), (219, 6911), (225, 6938), (265, 7061), (274, 7094), (299, 7169), (Start: 313 @7259 has 1 MA's), (319, 7283), (327, 7310), (337, 7358), (359, 7427), (379, 7514), (392, 7574), (477, 7808), (481, 7820), (498, 7862), (505, 7883), (515, 7910), (545, 8018), (594, 8108), (621, 8213),

Gene: Hank144\_7 Start: 2471, Stop: 4117, Start Num: 59

Candidate Starts for Hank144\_7:

(Start: 59 @2471 has 85 MA's), (Start: 150 @2621 has 2 MA's), (213, 2741), (215, 2765), (Start: 218 @2774 has 2 MA's), (239, 2846), (255, 2909), (266, 2930), (282, 2975), (296, 3017), (307, 3089), (Start: 313 @3113 has 1 MA's), (338, 3212), (357, 3266), (405, 3425), (464, 3575), (470, 3596), (502, 3686), (508, 3704), (533, 3794), (545, 3833), (556, 3854), (558, 3860), (563, 3878), (624, 4034), (660, 4112),

Gene: Hanray\_12 Start: 8166, Stop: 9932, Start Num: 80

Candidate Starts for Hanray\_12:

(Start: 63 @8145 has 231 MA's), (Start: 75 @8160 has 21 MA's), (Start: 80 @8166 has 5 MA's), (143, 8277), (173, 8376), (225, 8538), (248, 8610), (265, 8664), (276, 8703), (299, 8775), (Start: 313 @8865 has 1 MA's), (319, 8889), (351, 9006), (357, 9021), (382, 9129), (400, 9204), (408, 9240), (423, 9300), (468, 9420), (475, 9441), (494, 9480), (511, 9534), (512, 9537), (516, 9555), (531, 9609), (539, 9639), (545, 9651), (594, 9741), (600, 9759), (636, 9888), (654, 9915), (656, 9918),

Gene: Happiness\_11 Start: 6889, Stop: 8586, Start Num: 62

Candidate Starts for Happiness\_11:

(Start: 62 @6889 has 371 MA's), (Start: 81 @6913 has 1 MA's), (Start: 148 @7036 has 2 MA's), (196, 7126), (213, 7159), (238, 7258), (263, 7342), (265, 7345), (276, 7384), (299, 7453), (303, 7477), (Start: 313 @7543 has 1 MA's), (335, 7633), (379, 7798), (401, 7885), (408, 7918), (438, 7984), (463, 8056), (464, 8059), (471, 8083), (494, 8134), (498, 8149), (511, 8188), (516, 8209), (545, 8305), (636, 8542), (656, 8572), (658, 8575),

Gene: Harlequin\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Harlequin\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (377, 4053), (395, 4125), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Harley\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Harley\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (569, 1964), (576, 1979), (593, 2006), (605, 2039), (609, 2060), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: HarryHoudini\_14 Start: 7940, Stop: 9727, Start Num: 63

Candidate Starts for HarryHoudini\_14:

(16, 7754), (35, 7856), (Start: 63 @7940 has 231 MA's), (128, 8048), (138, 8069), (173, 8177), (265, 8462), (299, 8570), (Start: 313 @8660 has 1 MA's), (319, 8684), (351, 8801), (357, 8816), (464, 9203), (511, 9329), (516, 9350), (539, 9434), (545, 9446), (636, 9683), (654, 9710), (656, 9713), (658, 9716), (659, 9719),

Gene: HarryOW\_12 Start: 7307, Stop: 8995, Start Num: 62

Candidate Starts for HarryOW\_12:

(Start: 62 @7307 has 371 MA's), (213, 7571), (215, 7595), (265, 7757), (274, 7790), (299, 7865), (Start: 313 @7955 has 1 MA's), (319, 7979), (327, 8006), (337, 8054), (375, 8198), (379, 8210), (392, 8270), (477, 8504), (481, 8516), (498, 8558), (505, 8579), (515, 8606), (545, 8714), (594, 8804), (621, 8909),

Gene: HashRod\_14 Start: 7041, Stop: 8741, Start Num: 65

Candidate Starts for HashRod\_14:

(Start: 65 @7041 has 85 MA's), (94, 7089), (175, 7224), (238, 7416), (265, 7503), (Start: 313 @7701 has 1 MA's), (335, 7791), (356, 7854), (392, 8016), (464, 8214), (471, 8238), (472, 8241), (498, 8304), (505, 8325), (516, 8364), (545, 8460), (569, 8514), (594, 8550), (636, 8697), (656, 8727), (658, 8730),

Gene: HaveUMetTed\_14 Start: 7029, Stop: 8729, Start Num: 65

Candidate Starts for HaveUMetTed\_14:

(Start: 65 @7029 has 85 MA's), (94, 7077), (Start: 137 @7149 has 1 MA's), (175, 7212), (265, 7491), (Start: 313 @7689 has 1 MA's), (335, 7779), (356, 7842), (392, 8004), (464, 8202), (471, 8226), (472, 8229), (498, 8292), (502, 8304), (505, 8313), (511, 8331), (516, 8352), (545, 8448), (569, 8502), (594, 8538), (636, 8685), (656, 8715), (658, 8718),

Gene: Heathen\_11 Start: 6297, Stop: 7994, Start Num: 62

Candidate Starts for Heathen\_11:

(Start: 62 @6297 has 371 MA's), (109, 6369), (213, 6567), (257, 6741), (265, 6753), (276, 6792), (283, 6804), (299, 6861), (303, 6885), (Start: 313 @6951 has 1 MA's), (316, 6960), (335, 7041), (342, 7068), (379, 7206), (395, 7272), (401, 7293), (406, 7317), (408, 7326), (438, 7392), (464, 7467), (471, 7491), (472, 7494), (475, 7500), (479, 7509), (498, 7557), (516, 7617), (545, 7713), (563, 7758), (569, 7767), (625, 7920), (636, 7950), (656, 7980), (658, 7983),

Gene: Heffalump\_14 Start: 9253, Stop: 11040, Start Num: 63

Candidate Starts for Heffalump\_14:

(Start: 63 @9253 has 231 MA's), (128, 9361), (138, 9382), (173, 9490), (225, 9652), (265, 9775), (299, 9883), (Start: 313 @9973 has 1 MA's), (319, 9997), (351, 10114), (357, 10129), (433, 10429), (502, 10615), (511, 10642), (516, 10663), (545, 10759), (636, 10996), (654, 11023), (656, 11026),

Gene: HelDan\_11 Start: 6549, Stop: 8246, Start Num: 62

Candidate Starts for HelDan\_11:

(Start: 62 @6549 has 371 MA's), (109, 6621), (213, 6819), (257, 6993), (265, 7005), (276, 7044), (283, 7056), (299, 7113), (303, 7137), (Start: 313 @7203 has 1 MA's), (316, 7212), (335, 7293), (342, 7320), (379, 7458), (395, 7524), (401, 7545), (408, 7578), (438, 7644), (464, 7719), (471, 7743), (472, 7746), (475, 7752), (479, 7761), (498, 7809), (516, 7869), (545, 7965), (563, 8010), (569, 8019), (625, 8172), (636, 8202), (656, 8232), (658, 8235),

Gene: Heliosoles\_13 Start: 7029, Stop: 8729, Start Num: 65

Candidate Starts for Heliosoles\_13:

(Start: 65 @7029 has 85 MA's), (94, 7077), (Start: 137 @7149 has 1 MA's), (175, 7212), (265, 7491), (Start: 313 @7689 has 1 MA's), (335, 7779), (356, 7842), (392, 8004), (464, 8202), (471, 8226), (472, 8229), (498, 8292), (502, 8304), (505, 8313), (511, 8331), (516, 8352), (545, 8448), (569, 8502), (594, 8538), (636, 8685), (656, 8715), (658, 8718),

Gene: Helmet\_15 Start: 7533, Stop: 9287, Start Num: 63

Candidate Starts for Helmet\_15:

(Start: 63 @7533 has 231 MA's), (143, 7665), (173, 7764), (182, 7788), (189, 7815), (203, 7851), (225, 7926), (265, 8049), (269, 8064), (276, 8088), (299, 8157), (303, 8181), (304, 8184), (Start: 313 @8247 has 1 MA's), (319, 8271), (356, 8400), (357, 8403), (383, 8514), (432, 8676), (464, 8763), (468, 8775), (471, 8787), (494, 8835), (498, 8850), (511, 8889), (516, 8910), (539, 8994), (545, 9006), (636, 9243), (654, 9270), (656, 9273),

Gene: Herbertwm\_10 Start: 6311, Stop: 8074, Start Num: 63

Candidate Starts for Herbertwm\_10:

(Start: 63 @6311 has 231 MA's), (143, 6443), (173, 6542), (213, 6641), (248, 6773), (265, 6827), (299, 6938), (Start: 313 @7028 has 1 MA's), (319, 7052), (357, 7184), (375, 7277), (438, 7475), (464, 7550), (471, 7574), (498, 7637), (502, 7649), (511, 7676), (545, 7793), (569, 7847), (600, 7901), (636, 8030), (654, 8057), (656, 8060),

Gene: Hercules11\_13 Start: 6964, Stop: 8664, Start Num: 65

Candidate Starts for Hercules11\_13:

(Start: 65 @6964 has 85 MA's), (94, 7012), (175, 7147), (238, 7339), (265, 7426), (Start: 313 @7624 has 1 MA's), (335, 7714), (356, 7777), (392, 7939), (464, 8137), (471, 8161), (472, 8164), (498, 8227), (505, 8248), (516, 8287), (545, 8383), (569, 8437), (594, 8473), (636, 8620), (656, 8650), (658, 8653),

Gene: Hermia\_13 Start: 7751, Stop: 9439, Start Num: 62

Candidate Starts for Hermia\_13:

(Start: 62 @7751 has 371 MA's), (Start: 179 @7931 has 2 MA's), (213, 8015), (219, 8051), (225, 8078), (265, 8201), (274, 8234), (299, 8309), (Start: 313 @8399 has 1 MA's), (319, 8423), (327, 8450), (337, 8498), (359, 8567), (375, 8642), (379, 8654), (382, 8663), (392, 8714), (472, 8939), (477, 8948), (481, 8960), (498, 9002), (505, 9023), (515, 9050), (545, 9158), (594, 9248), (621, 9353),

Gene: HermioneGrange\_12 Start: 6720, Stop: 8408, Start Num: 62

Candidate Starts for HermioneGrange\_12:

(Start: 62 @6720 has 371 MA's), (213, 6984), (215, 7008), (265, 7170), (274, 7203), (299, 7278), (Start: 313 @7368 has 1 MA's), (319, 7392), (327, 7419), (337, 7467), (379, 7623), (392, 7683), (472, 7908), (477, 7917), (481, 7929), (498, 7971), (505, 7992), (515, 8019), (545, 8127), (594, 8217), (621, 8322),

Gene: Hestia\_2 Start: 690, Stop: 2330, Start Num: 150

Candidate Starts for Hestia\_2:

(Start: 101 @597 has 80 MA's), (Start: 150 @690 has 2 MA's), (152, 693), (189, 783), (194, 807), (204, 843), (205, 846), (224, 906), (241, 1014), (265, 1101), (311, 1278), (321, 1320), (328, 1341), (336, 1377), (385, 1512), (386, 1518), (398, 1557), (412, 1626), (456, 1692), (457, 1704), (467, 1740), (493, 1824), (511, 1881), (522, 1944), (539, 2028), (551, 2052), (569, 2094), (599, 2151), (600, 2154), (604, 2166), (621, 2235), (636, 2277), (648, 2304), (654, 2316),

Gene: Hexamo\_15 Start: 7488, Stop: 9242, Start Num: 63

Candidate Starts for Hexamo\_15:

(Start: 63 @7488 has 231 MA's), (143, 7620), (173, 7719), (182, 7743), (189, 7770), (203, 7806), (225, 7881), (265, 8004), (269, 8019), (276, 8043), (299, 8112), (303, 8136), (304, 8139), (Start: 313 @8202 has 1 MA's), (319, 8226), (356, 8355), (357, 8358), (383, 8469), (432, 8631), (464, 8718), (468, 8730), (471, 8742), (494, 8790), (498, 8805), (511, 8844), (516, 8865), (539, 8949), (545, 8961), (636, 9198), (654, 9225), (656, 9228),

Gene: Hexbug\_5 Start: 1093, Stop: 2790, Start Num: 99

Candidate Starts for Hexbug\_5:

(85, 1066), (Start: 99 @1093 has 202 MA's), (Start: 137 @1147 has 1 MA's), (147, 1168), (157, 1195), (203, 1306), (226, 1384), (250, 1468), (259, 1504), (265, 1513), (266, 1516), (278, 1564), (283, 1576), (305, 1663), (326, 1753), (347, 1843), (362, 1897), (412, 2110), (417, 2125), (428, 2134), (455, 2176), (466, 2242), (468, 2248), (483, 2290), (495, 2323), (498, 2332), (533, 2452), (556, 2509), (562, 2530), (587, 2557), (607, 2617), (623, 2686), (624, 2689), (638, 2734), (656, 2776), (658, 2779),

Gene: Hippo\_6 Start: 2376, Stop: 4022, Start Num: 59

Candidate Starts for Hippo\_6:

(Start: 59 @2376 has 85 MA's), (Start: 75 @2394 has 21 MA's), (Start: 150 @2526 has 2 MA's), (189, 2598), (203, 2634), (255, 2814), (266, 2835), (282, 2880), (296, 2922), (307, 2994), (Start: 313 @3018

has 1 MA's), (338, 3117), (342, 3132), (351, 3156), (353, 3162), (405, 3330), (464, 3480), (470, 3501), (494, 3564), (502, 3591), (533, 3699), (545, 3738), (556, 3759), (558, 3765), (563, 3783), (609, 3879), (624, 3939), (660, 4017),

Gene: HippoHollow\_13 Start: 9192, Stop: 10979, Start Num: 63

Candidate Starts for HippoHollow\_13:

(Start: 63 @9192 has 231 MA's), (128, 9300), (138, 9321), (173, 9429), (182, 9453), (263, 9711), (265, 9714), (276, 9753), (299, 9822), (303, 9846), (Start: 313 @9912 has 1 MA's), (319, 9936), (351, 10053), (357, 10068), (502, 10554), (511, 10581), (516, 10602), (545, 10698), (636, 10935), (654, 10962), (656, 10965),

Gene: HippoPololi\_6 Start: 1863, Stop: 3563, Start Num: 101

Candidate Starts for HippoPololi\_6:

(Start: 101 @1863 has 80 MA's), (120, 1893), (147, 1935), (203, 2073), (219, 2121), (226, 2151), (238, 2184), (250, 2235), (252, 2250), (265, 2280), (270, 2301), (278, 2331), (305, 2430), (307, 2451), (326, 2520), (335, 2562), (383, 2739), (391, 2790), (408, 2853), (412, 2877), (454, 2943), (462, 3000), (463, 3003), (466, 3012), (495, 3096), (498, 3105), (502, 3117), (504, 3123), (511, 3144), (519, 3183), (556, 3282), (571, 3318), (611, 3405), (624, 3462), (625, 3465), (632, 3486), (656, 3549), (658, 3552),

Gene: Hiro\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Hiro\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (269, 3630), (291, 3690), (303, 3747), (304, 3750), (Start: 313 @3798 has 1 MA's), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Hlubikazi\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Hlubikazi\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (560, 1946), (569, 1964), (576, 1979), (593, 2006), (605, 2039), (609, 2060), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Holec\_12 Start: 8166, Stop: 9932, Start Num: 80

Candidate Starts for Holec\_12:

(Start: 63 @8145 has 231 MA's), (Start: 75 @8160 has 21 MA's), (Start: 80 @8166 has 5 MA's), (143, 8277), (173, 8376), (225, 8538), (248, 8610), (265, 8664), (276, 8703), (299, 8775), (Start: 313 @8865 has 1 MA's), (319, 8889), (351, 9006), (357, 9021), (382, 9129), (400, 9204), (408, 9240), (423, 9300), (468, 9420), (475, 9441), (494, 9480), (511, 9534), (512, 9537), (516, 9555), (531, 9609), (539, 9639), (545, 9651), (594, 9741), (600, 9759), (636, 9888), (654, 9915), (656, 9918),

Gene: Holli\_11 Start: 6677, Stop: 8374, Start Num: 62

Candidate Starts for Holli\_11:

(Start: 62 @6677 has 371 MA's), (Start: 81 @6701 has 1 MA's), (Start: 148 @6824 has 2 MA's), (196, 6914), (213, 6947), (238, 7046), (263, 7130), (265, 7133), (276, 7172), (299, 7241), (303, 7265), (Start: 313 @7331 has 1 MA's), (335, 7421), (379, 7586), (401, 7673), (408, 7706), (438, 7772), (463, 7844), (464, 7847), (471, 7871), (494, 7922), (498, 7937), (511, 7976), (516, 7997), (545, 8093), (636, 8330), (656, 8360), (658, 8363),

Gene: HomeFry\_30 Start: 11600, Stop: 13279, Start Num: 95

Candidate Starts for HomeFry\_30:

(Start: 95 @11600 has 3 MA's), (Start: 101 @11606 has 80 MA's), (Start: 134 @11666 has 1 MA's), (153, 11711), (184, 11753), (200, 11810), (212, 11849), (216, 11879), (219, 11888), (267, 12059), (317, 12260), (323, 12287), (327, 12305), (367, 12455), (371, 12467), (380, 12500), (464, 12728), (476, 12761), (494, 12836), (506, 12875), (510, 12887), (511, 12890), (523, 12932), (531, 12965), (547, 12998), (552, 13010), (605, 13115), (621, 13184), (629, 13214), (651, 13256), (659, 13271),

Gene: Homines\_11 Start: 7026, Stop: 8714, Start Num: 62

Candidate Starts for Homines\_11:

(Start: 62 @7026 has 371 MA's), (Start: 179 @7206 has 2 MA's), (213, 7290), (219, 7326), (225, 7353), (265, 7476), (274, 7509), (299, 7584), (Start: 313 @7674 has 1 MA's), (319, 7698), (327, 7725), (337, 7773), (359, 7842), (379, 7929), (392, 7989), (477, 8223), (481, 8235), (498, 8277), (505, 8298), (515, 8325), (545, 8433), (594, 8523), (621, 8628),

Gene: Honk\_2 Start: 655, Stop: 2367, Start Num: 89

Candidate Starts for Honk\_2:

(5, 301), (6, 313), (Start: 81 @640 has 1 MA's), (Start: 89 @655 has 1 MA's), (Start: 105 @676 has 2 MA's), (175, 796), (225, 952), (243, 1012), (255, 1063), (265, 1081), (296, 1180), (305, 1231), (361, 1468), (366, 1492), (432, 1690), (466, 1789), (498, 1882), (511, 1921), (545, 2038), (553, 2053), (576, 2107), (599, 2182), (624, 2278), (627, 2290), (658, 2356),

Gene: Hookmount\_12 Start: 7044, Stop: 8741, Start Num: 62

Candidate Starts for Hookmount\_12:

(Start: 62 @7044 has 371 MA's), (Start: 81 @7068 has 1 MA's), (213, 7314), (257, 7488), (265, 7500), (276, 7539), (283, 7551), (299, 7608), (303, 7632), (Start: 313 @7698 has 1 MA's), (316, 7707), (335, 7788), (344, 7821), (379, 7953), (383, 7965), (395, 8019), (401, 8040), (408, 8073), (432, 8127), (464, 8214), (471, 8238), (472, 8241), (475, 8247), (479, 8256), (498, 8304), (511, 8343), (512, 8346), (516, 8364), (545, 8460), (569, 8514), (625, 8667), (636, 8697), (656, 8727), (658, 8730),

Gene: Hoot\_15 Start: 7512, Stop: 9266, Start Num: 63

Candidate Starts for Hoot\_15:

(Start: 63 @7512 has 231 MA's), (173, 7743), (189, 7794), (203, 7830), (225, 7905), (265, 8028), (276, 8067), (299, 8136), (303, 8160), (304, 8163), (Start: 313 @8226 has 1 MA's), (319, 8250), (344, 8349), (345, 8352), (356, 8379), (357, 8382), (438, 8667), (468, 8754), (471, 8766), (498, 8829), (511, 8868), (516, 8889), (539, 8973), (545, 8985), (636, 9222), (654, 9249), (656, 9252),

Gene: Hope4ever\_11 Start: 7128, Stop: 8816, Start Num: 62

Candidate Starts for Hope4ever\_11:

(Start: 62 @7128 has 371 MA's), (213, 7392), (215, 7416), (265, 7578), (274, 7611), (299, 7686), (Start: 313 @7776 has 1 MA's), (319, 7800), (327, 7827), (337, 7875), (375, 8019), (379, 8031), (392, 8091), (472, 8316), (477, 8325), (481, 8337), (498, 8379), (505, 8400), (515, 8427), (545, 8535), (594, 8625), (621, 8730),

Gene: Horseradish\_5 Start: 1017, Stop: 2696, Start Num: 101

Candidate Starts for Horseradish\_5:

(Start: 101 @1017 has 80 MA's), (Start: 137 @1068 has 1 MA's), (147, 1089), (174, 1128), (203, 1215), (Start: 218 @1260 has 2 MA's), (224, 1281), (225, 1290), (246, 1362), (259, 1413), (265, 1422), (278, 1473), (305, 1572), (307, 1593), (316, 1626), (326, 1662), (362, 1806), (372, 1842), (383, 1881), (388, 1914), (401, 1962), (412, 2019), (436, 2052), (455, 2085), (466, 2151), (468, 2157), (493, 2223), (496, 2235), (498, 2241), (523, 2322), (556, 2418), (587, 2466), (611, 2541), (632, 2622), (656, 2682), (658, 2685),

Gene: HortumSL17\_13 Start: 8109, Stop: 9896, Start Num: 63

Candidate Starts for HortumSL17\_13:

(Start: 63 @8109 has 231 MA's), (Start: 75 @8124 has 21 MA's), (Start: 80 @8130 has 5 MA's), (143, 8241), (173, 8340), (225, 8502), (248, 8574), (265, 8628), (276, 8667), (299, 8739), (Start: 313 @8829 has 1 MA's), (319, 8853), (351, 8970), (357, 8985), (382, 9093), (400, 9168), (408, 9204), (423, 9264), (468, 9384), (475, 9405), (494, 9444), (511, 9498), (512, 9501), (516, 9519), (531, 9573), (539, 9603), (545, 9615), (594, 9705), (600, 9723), (636, 9852), (654, 9879), (656, 9882),

Gene: Houdini22\_11 Start: 6888, Stop: 8585, Start Num: 62

Candidate Starts for Houdini22\_11:

(Start: 62 @6888 has 371 MA's), (Start: 81 @6912 has 1 MA's), (Start: 148 @7035 has 2 MA's), (196, 7125), (213, 7158), (238, 7257), (263, 7341), (265, 7344), (276, 7383), (299, 7452), (303, 7476), (Start: 313 @7542 has 1 MA's), (335, 7632), (379, 7797), (401, 7884), (408, 7917), (438, 7983), (463, 8055), (464, 8058), (471, 8082), (494, 8133), (498, 8148), (511, 8187), (516, 8208), (545, 8304), (636, 8541), (656, 8571), (658, 8574),

Gene: HubbaBubba\_22 Start: 9084, Stop: 10811, Start Num: 99

Candidate Starts for HubbaBubba\_22:

(Start: 99 @9084 has 202 MA's), (184, 9234), (197, 9285), (216, 9360), (219, 9369), (236, 9492), (241, 9510), (317, 9792), (323, 9819), (367, 9987), (371, 9999), (405, 10110), (476, 10293), (506, 10407), (511, 10422), (547, 10530), (611, 10674), (621, 10716), (629, 10746), (651, 10788),

Gene: HuhtaEnerson15\_9 Start: 6188, Stop: 7939, Start Num: 42

Candidate Starts for HuhtaEnerson15\_9:

(Start: 37 @6161 has 19 MA's), (Start: 42 @6188 has 30 MA's), (73, 6257), (140, 6371), (143, 6377), (203, 6509), (225, 6584), (226, 6587), (238, 6620), (248, 6653), (284, 6761), (291, 6785), (299, 6818), (Start: 313 @6893 has 1 MA's), (324, 6938), (342, 7016), (344, 7022), (359, 7067), (395, 7220), (401, 7241), (464, 7415), (471, 7439), (472, 7442), (498, 7502), (502, 7514), (511, 7541), (516, 7562), (539, 7646), (545, 7658), (636, 7895), (658, 7928), (660, 7934),

Gene: Hum25\_2 Start: 471, Stop: 2078, Start Num: 95

Candidate Starts for Hum25\_2:

(Start: 95 @471 has 3 MA's), (116, 501), (180, 615), (210, 687), (241, 807), (307, 1071), (Start: 313 @1092 has 1 MA's), (319, 1116), (326, 1146), (333, 1182), (334, 1188), (340, 1209), (348, 1239), (355, 1245), (367, 1299), (381, 1347), (390, 1368), (407, 1431), (417, 1467), (445, 1491), (458, 1536), (462, 1554), (468, 1572), (471, 1584), (498, 1659), (511, 1698), (525, 1749), (546, 1800), (548, 1806), (564, 1842), (590, 1878), (591, 1881), (631, 2013), (657, 2061),

Gene: Huphlebuff\_37 Start: 10925, Stop: 12667, Start Num: 101

Candidate Starts for Huphlebuff\_37:

(Start: 101 @10925 has 80 MA's), (175, 11042), (189, 11087), (206, 11153), (208, 11168), (215, 11201), (216, 11204), (221, 11219), (226, 11243), (227, 11246), (238, 11276), (244, 11297), (246, 11315), (249, 11324), (256, 11360), (265, 11375), (278, 11420), (296, 11462), (301, 11501), (305, 11513), (307, 11534), (320, 11585), (327, 11606), (388, 11828), (412, 11933), (414, 11942), (447, 11975), (455, 11996), (456, 11999), (460, 12026), (464, 12056), (468, 12068), (472, 12083), (477, 12092), (479, 12098), (493, 12140), (495, 12149), (500, 12164), (505, 12179), (523, 12239), (531, 12278), (540, 12311), (556, 12341), (557, 12344), (583, 12428), (599, 12482), (604, 12497), (612, 12524), (624, 12578), (654, 12650), (656, 12653),

Gene: Hutc2\_12 Start: 8027, Stop: 9790, Start Num: 63

Candidate Starts for Hutc2\_12:

(Start: 63 @8027 has 231 MA's), (Start: 80 @8048 has 5 MA's), (128, 8135), (173, 8264), (182, 8288), (203, 8351), (248, 8495), (263, 8546), (265, 8549), (299, 8660), (303, 8684), (304, 8687), (Start: 313

@8750 has 1 MA's), (316, 8759), (319, 8774), (351, 8891), (357, 8906), (368, 8966), (389, 9050), (438, 9191), (468, 9278), (471, 9290), (494, 9338), (498, 9353), (511, 9392), (516, 9413), (527, 9452), (539, 9497), (545, 9509), (636, 9746), (654, 9773),

Gene: Huxley\_11 Start: 6948, Stop: 8645, Start Num: 62

Candidate Starts for Huxley\_11:

(Start: 62 @6948 has 371 MA's), (Start: 81 @6972 has 1 MA's), (Start: 148 @7095 has 2 MA's), (196, 7185), (213, 7218), (238, 7317), (263, 7401), (265, 7404), (276, 7443), (299, 7512), (303, 7536), (Start: 313 @7602 has 1 MA's), (335, 7692), (379, 7857), (401, 7944), (408, 7977), (438, 8043), (463, 8115), (464, 8118), (471, 8142), (494, 8193), (498, 8208), (511, 8247), (516, 8268), (545, 8364), (636, 8601), (656, 8631), (658, 8634),

Gene: Hydra\_8 Start: 2939, Stop: 4585, Start Num: 59

Candidate Starts for Hydra\_8:

(Start: 59 @2939 has 85 MA's), (Start: 75 @2957 has 21 MA's), (189, 3161), (Start: 218 @3242 has 2 MA's), (255, 3377), (266, 3398), (296, 3485), (307, 3557), (Start: 313 @3581 has 1 MA's), (338, 3680), (357, 3734), (389, 3833), (405, 3893), (468, 4055), (470, 4064), (502, 4154), (511, 4181), (532, 4259), (533, 4262), (545, 4301), (556, 4322), (558, 4328), (563, 4346), (609, 4442), (624, 4502),

Gene: IAmGroot\_2 Start: 501, Stop: 2183, Start Num: 83

Candidate Starts for IAmGroot\_2:

(Start: 83 @501 has 13 MA's), (118, 555), (225, 798), (243, 852), (265, 921), (274, 957), (367, 1317), (545, 1857), (627, 2109),

Gene: ICleared\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for ICleared\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: IDyn\_25 Start: 10480, Stop: 12207, Start Num: 99

Candidate Starts for IDyn\_25:

(Start: 99 @10480 has 202 MA's), (184, 10630), (197, 10681), (212, 10726), (216, 10756), (219, 10765), (236, 10888), (241, 10906), (317, 11188), (323, 11215), (367, 11383), (371, 11395), (405, 11506), (476, 11689), (506, 11803), (511, 11818), (518, 11851), (547, 11926), (611, 12070), (621, 12112), (629, 12142), (651, 12184),

Gene: ILeeKay\_13 Start: 7180, Stop: 8868, Start Num: 62

Candidate Starts for ILeeKay\_13:

(Start: 62 @7180 has 371 MA's), (213, 7444), (215, 7468), (265, 7630), (274, 7663), (299, 7738), (308, 7792), (Start: 313 @7828 has 1 MA's), (319, 7852), (327, 7879), (337, 7927), (359, 7996), (379, 8083), (392, 8143), (477, 8377), (481, 8389), (498, 8431), (505, 8452), (515, 8479), (545, 8587), (594, 8677), (621, 8782),

Gene: IMpilo\_2 Start: 588, Stop: 2225, Start Num: 99

Candidate Starts for IMpilo\_2:

(Start: 99 @588 has 202 MA's), (Start: 102 @594 has 27 MA's), (109, 603), (Start: 115 @612 has 3 MA's), (118, 618), (Start: 134 @645 has 1 MA's), (Start: 144 @669 has 2 MA's), (146, 672), (185, 735), (189, 753), (200, 774), (222, 861), (223, 867), (233, 921), (241, 933), (245, 945), (248, 954), (249, 957), (252, 978), (258, 999), (267, 1014), (282, 1071), (296, 1110), (306, 1179), (309, 1185), (317, 1215), (318, 1218), (319, 1227), (323, 1242), (327, 1260), (338, 1311), (367, 1413), (417, 1584), (435, 1596),

(450, 1614), (464, 1680), (474, 1710), (476, 1713), (478, 1716), (498, 1773), (503, 1788), (505, 1794), (506, 1797), (511, 1812), (514, 1821), (532, 1890), (543, 1920), (547, 1929), (560, 1962), (576, 1995), (593, 2022), (605, 2055), (611, 2082), (612, 2085), (617, 2106), (621, 2130), (624, 2139), (625, 2142), (650, 2199),

Gene: IUFootball\_2 Start: 532, Stop: 2271, Start Num: 58

Candidate Starts for IUFootball\_2:

(Start: 58 @532 has 3 MA's), (Start: 101 @592 has 80 MA's), (107, 601), (Start: 137 @655 has 1 MA's), (196, 778), (239, 916), (243, 928), (250, 952), (265, 997), (280, 1045), (305, 1138), (326, 1237), (327, 1240), (339, 1297), (366, 1399), (367, 1402), (395, 1468), (409, 1525), (429, 1594), (472, 1714), (533, 1906), (545, 1942), (553, 1957), (609, 2122), (627, 2194), (634, 2209), (635, 2212), (656, 2257),

Gene: IbOuu\_2 Start: 652, Stop: 2208, Start Num: 144

Candidate Starts for IbOuu\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Ibantik\_67 Start: 28527, Stop: 30182, Start Num: 90

Candidate Starts for Ibantik\_67:

(Start: 90 @28527 has 17 MA's), (Start: 99 @28539 has 202 MA's), (189, 28710), (204, 28749), (245, 28941), (246, 28944), (248, 28950), (254, 28983), (265, 29004), (283, 29058), (299, 29121), (Start: 313 @29196 has 1 MA's), (317, 29208), (327, 29253), (342, 29319), (412, 29544), (523, 29832), (556, 29910), (570, 29946), (595, 29982), (603, 30006), (608, 30021), (619, 30087), (621, 30093), (625, 30105), (643, 30147),

Gene: Ibhubesi\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Ibhubesi\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (569, 1964), (576, 1979), (593, 2006), (605, 2039), (609, 2060), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Ibrahim\_3 Start: 724, Stop: 2607, Start Num: 54

Candidate Starts for Ibrahim\_3:

(13, 475), (Start: 54 @724 has 7 MA's), (108, 805), (114, 814), (156, 910), (158, 922), (203, 1054), (249, 1201), (250, 1207), (255, 1234), (265, 1252), (286, 1315), (317, 1450), (362, 1651), (386, 1708), (466, 1927), (485, 1978), (490, 2002), (501, 2053), (534, 2182), (540, 2221), (545, 2230), (568, 2281), (580, 2320), (595, 2407), (599, 2419), (623, 2512), (627, 2527), (628, 2530),

Gene: Iceman\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Iceman\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start:

313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Ichabod\_12 Start: 7032, Stop: 8720, Start Num: 62

Candidate Starts for Ichabod\_12:

(Start: 62 @7032 has 371 MA's), (213, 7296), (215, 7320), (265, 7482), (274, 7515), (299, 7590), (Start: 313 @7680 has 1 MA's), (319, 7704), (337, 7779), (359, 7848), (379, 7935), (382, 7944), (392, 7995), (477, 8229), (481, 8241), (498, 8283), (505, 8304), (515, 8331), (545, 8439), (594, 8529), (621, 8634),

Gene: Idleandcovert\_11 Start: 6496, Stop: 8193, Start Num: 62

Candidate Starts for Idleandcovert\_11:

(Start: 62 @6496 has 371 MA's), (Start: 81 @6520 has 1 MA's), (109, 6568), (213, 6766), (225, 6829), (257, 6940), (265, 6952), (276, 6991), (283, 7003), (299, 7060), (303, 7084), (Start: 313 @7150 has 1 MA's), (316, 7159), (335, 7240), (342, 7267), (379, 7405), (401, 7492), (408, 7525), (438, 7591), (464, 7666), (471, 7690), (472, 7693), (475, 7699), (479, 7708), (494, 7741), (498, 7756), (516, 7816), (545, 7912), (563, 7957), (569, 7966), (625, 8119), (636, 8149), (656, 8179), (658, 8182),

Gene: IgnatiusPatJac\_10 Start: 7006, Stop: 8694, Start Num: 62

Candidate Starts for IgnatiusPatJac\_10:

(Start: 62 @7006 has 371 MA's), (Start: 179 @7186 has 2 MA's), (213, 7270), (215, 7294), (265, 7456), (274, 7489), (299, 7564), (Start: 313 @7654 has 1 MA's), (319, 7678), (327, 7705), (337, 7753), (379, 7909), (392, 7969), (472, 8194), (477, 8203), (481, 8215), (498, 8257), (505, 8278), (515, 8305), (545, 8413), (594, 8503), (621, 8608),

Gene: Indigo\_6 Start: 2402, Stop: 4048, Start Num: 59

Candidate Starts for Indigo\_6:

(Start: 59 @2402 has 85 MA's), (Start: 75 @2420 has 21 MA's), (189, 2624), (Start: 218 @2705 has 2 MA's), (255, 2840), (266, 2861), (296, 2948), (307, 3020), (Start: 313 @3044 has 1 MA's), (338, 3143), (357, 3197), (389, 3296), (405, 3356), (468, 3518), (470, 3527), (502, 3617), (511, 3644), (532, 3722), (533, 3725), (545, 3764), (556, 3785), (558, 3791), (563, 3809), (609, 3905), (624, 3965),

Gene: Indra\_15 Start: 7533, Stop: 9287, Start Num: 63

Candidate Starts for Indra\_15:

(Start: 63 @7533 has 231 MA's), (143, 7665), (173, 7764), (182, 7788), (189, 7815), (203, 7851), (225, 7926), (265, 8049), (269, 8064), (276, 8088), (299, 8157), (303, 8181), (304, 8184), (Start: 313 @8247 has 1 MA's), (319, 8271), (356, 8400), (357, 8403), (383, 8514), (432, 8676), (464, 8763), (468, 8775), (471, 8787), (494, 8835), (498, 8850), (511, 8889), (516, 8910), (539, 8994), (545, 9006), (636, 9243), (654, 9270), (656, 9273),

Gene: Insomnia\_12 Start: 8076, Stop: 9839, Start Num: 63

Candidate Starts for Insomnia\_12:

(31, 7956), (Start: 63 @8076 has 231 MA's), (Start: 80 @8097 has 5 MA's), (128, 8184), (173, 8313), (182, 8337), (203, 8400), (248, 8544), (263, 8595), (265, 8598), (299, 8709), (303, 8733), (304, 8736), (Start: 313 @8799 has 1 MA's), (316, 8808), (319, 8823), (351, 8940), (357, 8955), (368, 9015), (389, 9099), (468, 9327), (471, 9339), (494, 9387), (498, 9402), (511, 9441), (516, 9462), (527, 9501), (539, 9546), (545, 9558), (636, 9795), (654, 9822),

Gene: Inventum\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Inventum\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245,

928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Inyanga\_10 Start: 6795, Stop: 8483, Start Num: 62

Candidate Starts for Inyanga\_10:

(Start: 62 @6795 has 371 MA's), (213, 7059), (215, 7083), (265, 7245), (274, 7278), (299, 7353), (Start: 313 @7443 has 1 MA's), (319, 7467), (327, 7494), (337, 7542), (359, 7611), (375, 7686), (379, 7698), (382, 7707), (392, 7758), (477, 7992), (481, 8004), (498, 8046), (505, 8067), (515, 8094), (545, 8202), (594, 8292), (621, 8397),

Gene: Iqorha\_10 Start: 6795, Stop: 8483, Start Num: 62

Candidate Starts for Iqorha\_10:

(Start: 62 @6795 has 371 MA's), (Start: 179 @6975 has 2 MA's), (213, 7059), (219, 7095), (225, 7122), (265, 7245), (274, 7278), (299, 7353), (Start: 313 @7443 has 1 MA's), (319, 7467), (327, 7494), (337, 7542), (359, 7611), (375, 7686), (379, 7698), (382, 7707), (392, 7758), (472, 7983), (477, 7992), (481, 8004), (498, 8046), (505, 8067), (515, 8094), (545, 8202), (594, 8292), (621, 8397),

Gene: Iracema64\_11 Start: 6861, Stop: 8558, Start Num: 62

Candidate Starts for Iracema64\_11:

(Start: 62 @6861 has 371 MA's), (Start: 81 @6885 has 1 MA's), (Start: 148 @7008 has 2 MA's), (196, 7098), (213, 7131), (238, 7230), (263, 7314), (265, 7317), (276, 7356), (299, 7425), (303, 7449), (Start: 313 @7515 has 1 MA's), (335, 7605), (379, 7770), (401, 7857), (408, 7890), (438, 7956), (463, 8028), (464, 8031), (471, 8055), (494, 8106), (498, 8121), (511, 8160), (516, 8181), (545, 8277), (636, 8514), (656, 8544), (658, 8547),

Gene: IrishSherpFalk\_2 Start: 575, Stop: 2212, Start Num: 99

Candidate Starts for IrishSherpFalk\_2:

(Start: 99 @575 has 202 MA's), (Start: 105 @584 has 2 MA's), (Start: 115 @599 has 3 MA's), (Start: 127 @620 has 1 MA's), (Start: 134 @632 has 1 MA's), (Start: 144 @656 has 2 MA's), (146, 659), (153, 677), (185, 722), (200, 761), (222, 848), (233, 908), (241, 920), (245, 932), (248, 941), (249, 944), (252, 965), (258, 986), (267, 1001), (282, 1058), (296, 1097), (306, 1166), (309, 1172), (317, 1202), (318, 1205), (319, 1214), (323, 1229), (327, 1247), (338, 1298), (364, 1391), (367, 1400), (417, 1571), (435, 1583), (450, 1601), (464, 1667), (474, 1697), (476, 1700), (478, 1703), (498, 1760), (503, 1775), (505, 1781), (506, 1784), (511, 1799), (514, 1808), (532, 1877), (543, 1907), (547, 1916), (560, 1949), (576, 1982), (593, 2009), (605, 2042), (611, 2069), (612, 2072), (617, 2093), (621, 2117), (624, 2126), (625, 2129), (650, 2186),

Gene: IronMan\_14 Start: 9160, Stop: 10938, Start Num: 63

Candidate Starts for IronMan\_14:

(Start: 63 @9160 has 231 MA's), (Start: 80 @9178 has 5 MA's), (143, 9289), (Start: 148 @9301 has 2 MA's), (159, 9343), (162, 9355), (165, 9364), (173, 9388), (203, 9475), (263, 9670), (265, 9673), (276, 9712), (299, 9781), (Start: 313 @9871 has 1 MA's), (319, 9895), (344, 9994), (357, 10027), (433, 10327), (464, 10414), (502, 10513), (511, 10540), (516, 10561), (545, 10657), (636, 10894), (654, 10921), (656, 10924),

Gene: Isca\_11 Start: 6368, Stop: 8065, Start Num: 62

Candidate Starts for Isca\_11:

(Start: 62 @6368 has 371 MA's), (109, 6440), (213, 6638), (225, 6701), (257, 6812), (265, 6824), (276, 6863), (283, 6875), (299, 6932), (303, 6956), (Start: 313 @7022 has 1 MA's), (316, 7031), (335, 7112),

(342, 7139), (379, 7277), (395, 7343), (401, 7364), (408, 7397), (438, 7463), (464, 7538), (471, 7562), (475, 7571), (479, 7580), (498, 7628), (511, 7667), (516, 7688), (545, 7784), (563, 7829), (569, 7838), (625, 7991), (636, 8021), (656, 8051), (658, 8054),

Gene: Isiphiwo\_15 Start: 7523, Stop: 9277, Start Num: 63

Candidate Starts for Isiphiwo\_15:

(Start: 63 @7523 has 231 MA's), (173, 7754), (189, 7805), (203, 7841), (225, 7916), (265, 8039), (276, 8078), (299, 8147), (303, 8171), (304, 8174), (Start: 313 @8237 has 1 MA's), (319, 8261), (344, 8360), (345, 8363), (356, 8390), (357, 8393), (438, 8678), (468, 8765), (471, 8777), (498, 8840), (511, 8879), (516, 8900), (539, 8984), (545, 8996), (636, 9233), (654, 9260), (656, 9263),

Gene: Issmi\_7 Start: 2454, Stop: 4100, Start Num: 59

Candidate Starts for Issmi\_7:

(Start: 59 @2454 has 85 MA's), (203, 2712), (213, 2724), (Start: 218 @2757 has 2 MA's), (250, 2865), (255, 2892), (266, 2913), (296, 3000), (307, 3072), (Start: 313 @3096 has 1 MA's), (338, 3195), (387, 3345), (405, 3408), (409, 3426), (464, 3558), (466, 3564), (470, 3579), (473, 3588), (502, 3669), (508, 3687), (511, 3696), (533, 3777), (545, 3816), (556, 3837), (563, 3861), (599, 3921), (624, 4017),

Gene: Iter\_2 Start: 534, Stop: 2240, Start Num: 84

Candidate Starts for Iter\_2:

(Start: 84 @534 has 42 MA's), (247, 906), (265, 963), (280, 1011), (305, 1101), (326, 1200), (344, 1275), (367, 1365), (409, 1488), (418, 1527), (464, 1650), (523, 1830), (533, 1869), (545, 1905), (553, 1920), (599, 2055), (620, 2139), (624, 2151), (627, 2163),

Gene: IttyBittyPiggy\_2 Start: 535, Stop: 2232, Start Num: 84

Candidate Starts for IttyBittyPiggy\_2:

(10, 244), (Start: 84 @535 has 42 MA's), (Start: 137 @622 has 1 MA's), (247, 907), (265, 964), (276, 1006), (305, 1102), (316, 1156), (344, 1276), (464, 1651), (502, 1762), (523, 1831), (545, 1906), (553, 1921), (599, 2047), (627, 2155),

Gene: Itza\_6 Start: 2578, Stop: 4239, Start Num: 59

Candidate Starts for Itza\_6:

(Start: 59 @2578 has 85 MA's), (172, 2761), (185, 2797), (239, 2968), (255, 3031), (276, 3088), (296, 3139), (307, 3211), (Start: 313 @3235 has 1 MA's), (321, 3268), (330, 3304), (338, 3334), (344, 3355), (368, 3448), (389, 3487), (396, 3511), (405, 3547), (425, 3607), (464, 3697), (470, 3718), (479, 3739), (512, 3838), (545, 3955), (563, 4000),

Gene: Iwokeuplikedis\_12 Start: 7191, Stop: 8972, Start Num: 63

Candidate Starts for Iwokeuplikedis\_12:

(21, 7023), (Start: 63 @7191 has 231 MA's), (173, 7422), (265, 7707), (276, 7746), (299, 7815), (Start: 313 @7905 has 1 MA's), (319, 7929), (327, 7956), (351, 8046), (357, 8061), (433, 8361), (464, 8448), (498, 8535), (502, 8547), (511, 8574), (539, 8679), (545, 8691), (636, 8928), (656, 8958),

Gene: Izzy\_7 Start: 2609, Stop: 4255, Start Num: 59

Candidate Starts for Izzy\_7:

(Start: 59 @2609 has 85 MA's), (Start: 75 @2627 has 21 MA's), (189, 2831), (Start: 218 @2912 has 2 MA's), (255, 3047), (266, 3068), (282, 3113), (296, 3155), (307, 3227), (Start: 313 @3251 has 1 MA's), (335, 3338), (338, 3350), (357, 3404), (389, 3503), (405, 3563), (468, 3725), (470, 3734), (502, 3824), (513, 3857), (532, 3929), (533, 3932), (545, 3971), (556, 3992), (558, 3998), (563, 4016), (609, 4112), (624, 4172),

Gene: JC27\_13 Start: 7632, Stop: 9320, Start Num: 62

Candidate Starts for JC27\_13:

(Start: 62 @7632 has 371 MA's), (Start: 179 @7812 has 2 MA's), (213, 7896), (219, 7932), (225, 7959), (265, 8082), (299, 8190), (Start: 313 @8280 has 1 MA's), (319, 8304), (327, 8331), (337, 8379), (359, 8448), (375, 8523), (379, 8535), (392, 8595), (472, 8820), (477, 8829), (481, 8841), (498, 8883), (505, 8904), (515, 8931), (545, 9039), (594, 9129), (621, 9234),

Gene: JF2\_11 Start: 6133, Stop: 7830, Start Num: 62

Candidate Starts for JF2\_11:

(Start: 62 @6133 has 371 MA's), (109, 6205), (213, 6403), (225, 6466), (257, 6577), (265, 6589), (276, 6628), (283, 6640), (299, 6697), (303, 6721), (308, 6751), (Start: 313 @6787 has 1 MA's), (316, 6796), (335, 6877), (342, 6904), (379, 7042), (395, 7108), (401, 7129), (408, 7162), (438, 7228), (464, 7303), (471, 7327), (472, 7330), (475, 7336), (479, 7345), (498, 7393), (511, 7432), (512, 7435), (516, 7453), (545, 7549), (569, 7603), (625, 7756), (636, 7786), (656, 7816), (658, 7819),

Gene: JF4\_11 Start: 6133, Stop: 7830, Start Num: 62

Candidate Starts for JF4\_11:

(Start: 62 @6133 has 371 MA's), (109, 6205), (213, 6403), (225, 6466), (257, 6577), (265, 6589), (276, 6628), (283, 6640), (299, 6697), (303, 6721), (308, 6751), (Start: 313 @6787 has 1 MA's), (316, 6796), (335, 6877), (342, 6904), (379, 7042), (395, 7108), (401, 7129), (408, 7162), (438, 7228), (464, 7303), (471, 7327), (472, 7330), (475, 7336), (479, 7345), (498, 7393), (511, 7432), (512, 7435), (516, 7453), (545, 7549), (569, 7603), (625, 7756), (636, 7786), (656, 7816), (658, 7819),

Gene: JHC117\_13 Start: 6955, Stop: 8655, Start Num: 65

Candidate Starts for JHC117\_13:

(Start: 65 @6955 has 85 MA's), (94, 7003), (175, 7138), (238, 7330), (265, 7417), (Start: 313 @7615 has 1 MA's), (335, 7705), (356, 7768), (392, 7930), (464, 8128), (471, 8152), (472, 8155), (498, 8218), (505, 8239), (516, 8278), (545, 8374), (569, 8428), (594, 8464), (636, 8611), (656, 8641), (658, 8644),

Gene: JSwag\_14 Start: 6679, Stop: 8376, Start Num: 63

Candidate Starts for JSwag\_14:

(Start: 63 @6679 has 231 MA's), (78, 6697), (175, 6859), (248, 7084), (265, 7138), (299, 7246), (304, 7273), (Start: 313 @7336 has 1 MA's), (319, 7360), (471, 7876), (498, 7939), (512, 7981), (545, 8095), (599, 8200), (636, 8332), (654, 8359), (656, 8362), (658, 8365),

Gene: Jaan\_15 Start: 9550, Stop: 11328, Start Num: 63

Candidate Starts for Jaan\_15:

(Start: 63 @9550 has 231 MA's), (Start: 80 @9568 has 5 MA's), (143, 9679), (Start: 148 @9691 has 2 MA's), (159, 9733), (162, 9745), (165, 9754), (173, 9778), (203, 9865), (263, 10060), (265, 10063), (276, 10102), (299, 10171), (Start: 313 @10261 has 1 MA's), (319, 10285), (344, 10384), (357, 10417), (433, 10717), (464, 10804), (502, 10903), (511, 10930), (516, 10951), (545, 11047), (636, 11284), (654, 11311), (656, 11314),

Gene: Jabiru\_9 Start: 6013, Stop: 7764, Start Num: 42

Candidate Starts for Jabiru\_9:

(Start: 37 @5986 has 19 MA's), (Start: 42 @6013 has 30 MA's), (Start: 66 @6073 has 35 MA's), (73, 6082), (97, 6121), (140, 6196), (143, 6202), (203, 6334), (225, 6409), (226, 6412), (284, 6586), (291, 6610), (Start: 313 @6718 has 1 MA's), (324, 6763), (342, 6841), (344, 6847), (385, 7012), (395, 7045), (401, 7066), (464, 7240), (471, 7264), (511, 7366), (516, 7387), (531, 7441), (539, 7471), (545, 7483), (569, 7537), (635, 7717), (636, 7720), (658, 7753), (660, 7759),

Gene: Jabith\_12 Start: 8076, Stop: 9839, Start Num: 63

Candidate Starts for Jabith\_12:

(31, 7956), (Start: 63 @8076 has 231 MA's), (Start: 80 @8097 has 5 MA's), (128, 8184), (173, 8313), (182, 8337), (203, 8400), (248, 8544), (263, 8595), (265, 8598), (299, 8709), (303, 8733), (304, 8736),

(Start: 313 @8799 has 1 MA's), (316, 8808), (319, 8823), (351, 8940), (357, 8955), (368, 9015), (389, 9099), (468, 9327), (471, 9339), (494, 9387), (498, 9402), (511, 9441), (516, 9462), (527, 9501), (539, 9546), (545, 9558), (636, 9795), (654, 9822),

Gene: Jablanski\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for Jablanski\_2:

(Start: 70 @485 has 45 MA's), (145, 623), (201, 782), (203, 797), (228, 881), (239, 911), (243, 923), (246, 932), (254, 971), (265, 992), (295, 1076), (306, 1148), (316, 1184), (325, 1220), (345, 1310), (350, 1331), (362, 1382), (371, 1415), (439, 1589), (456, 1616), (464, 1658), (472, 1685), (475, 1691), (494, 1757), (497, 1769), (506, 1796), (533, 1907), (539, 1943), (545, 1955), (558, 1979), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627, 2207), (632, 2222), (634, 2225), (641, 2240), (656, 2270), (658, 2273),

Gene: JackSparrow\_12 Start: 7288, Stop: 8976, Start Num: 62

Candidate Starts for JackSparrow\_12:

(Start: 62 @7288 has 371 MA's), (Start: 179 @7468 has 2 MA's), (213, 7552), (219, 7588), (225, 7615), (265, 7738), (299, 7846), (Start: 313 @7936 has 1 MA's), (319, 7960), (327, 7987), (337, 8035), (359, 8104), (375, 8179), (379, 8191), (392, 8251), (472, 8476), (477, 8485), (481, 8497), (498, 8539), (505, 8560), (515, 8587), (545, 8695), (594, 8785), (621, 8890),

Gene: JacoRen57\_2 Start: 669, Stop: 2324, Start Num: 101

Candidate Starts for JacoRen57\_2:

(Start: 101 @669 has 80 MA's), (143, 732), (Start: 148 @744 has 2 MA's), (203, 861), (222, 918), (259, 1059), (265, 1068), (278, 1116), (317, 1269), (468, 1797), (502, 1890), (533, 1998), (554, 2052), (556, 2055), (557, 2058), (587, 2103), (616, 2199), (625, 2238),

Gene: James\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for James\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Jamzy\_7 Start: 1492, Stop: 3192, Start Num: 99

Candidate Starts for Jamzy\_7:

(Start: 99 @1492 has 202 MA's), (Start: 137 @1546 has 1 MA's), (147, 1567), (157, 1594), (192, 1669), (203, 1705), (226, 1783), (248, 1858), (252, 1882), (265, 1912), (278, 1963), (305, 2062), (326, 2152), (347, 2242), (362, 2296), (383, 2371), (408, 2485), (412, 2509), (417, 2524), (455, 2575), (466, 2641), (468, 2647), (495, 2722), (524, 2818), (533, 2851), (587, 2956), (623, 3085), (624, 3088), (656, 3178), (658, 3181),

Gene: Janeemi\_3 Start: 1617, Stop: 3323, Start Num: 84

Candidate Starts for Janeemi\_3:

(Start: 84 @1617 has 42 MA's), (247, 1989), (265, 2046), (280, 2094), (305, 2184), (344, 2358), (367, 2448), (409, 2571), (418, 2610), (533, 2952), (545, 2988), (553, 3003), (559, 3021), (599, 3138), (620, 3222), (624, 3234), (627, 3246),

Gene: Jant\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Jant\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Janus\_7 Start: 2523, Stop: 4169, Start Num: 59

Candidate Starts for Janus\_7:

(Start: 59 @2523 has 85 MA's), (201, 2766), (203, 2781), (213, 2793), (246, 2919), (255, 2961), (257, 2967), (266, 2982), (296, 3069), (307, 3141), (Start: 313 @3165 has 1 MA's), (338, 3264), (347, 3300), (357, 3318), (396, 3441), (405, 3477), (468, 3639), (470, 3648), (494, 3711), (511, 3765), (533, 3846), (545, 3885), (556, 3906), (563, 3930), (623, 4083), (624, 4086),

Gene: Jacob\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Jacob\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (524, 1844), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Jash\_7 Start: 2580, Stop: 4208, Start Num: 75

Candidate Starts for Jash\_7:

(Start: 59 @2562 has 85 MA's), (Start: 75 @2580 has 21 MA's), (189, 2784), (Start: 218 @2865 has 2 MA's), (255, 3000), (266, 3021), (282, 3066), (296, 3108), (307, 3180), (Start: 313 @3204 has 1 MA's), (335, 3291), (338, 3303), (357, 3357), (389, 3456), (405, 3516), (468, 3678), (470, 3687), (502, 3777), (513, 3810), (532, 3882), (533, 3885), (545, 3924), (556, 3945), (558, 3951), (563, 3969), (609, 4065), (624, 4125),

Gene: JasmineDragon\_2 Start: 550, Stop: 2277, Start Num: 59

Candidate Starts for JasmineDragon\_2:

(40, 490), (Start: 59 @550 has 85 MA's), (Start: 137 @661 has 1 MA's), (240, 925), (243, 934), (255, 985), (265, 1003), (280, 1051), (305, 1144), (472, 1720), (523, 1873), (545, 1948), (553, 1963), (599, 2092), (627, 2200), (656, 2263),

Gene: Jasper\_12 Start: 6843, Stop: 8531, Start Num: 62

Candidate Starts for Jasper\_12:

(Start: 62 @6843 has 371 MA's), (Start: 179 @7023 has 2 MA's), (213, 7107), (219, 7143), (265, 7293), (299, 7401), (Start: 313 @7491 has 1 MA's), (319, 7515), (337, 7590), (359, 7659), (379, 7746), (392, 7806), (477, 8040), (481, 8052), (498, 8094), (505, 8115), (515, 8142), (545, 8250), (594, 8340), (621, 8445),

Gene: Jaykayelowell\_11 Start: 6883, Stop: 8580, Start Num: 62

Candidate Starts for Jaykayelowell\_11:

(Start: 62 @6883 has 371 MA's), (Start: 81 @6907 has 1 MA's), (Start: 148 @7030 has 2 MA's), (196, 7120), (213, 7153), (238, 7252), (263, 7336), (265, 7339), (276, 7378), (299, 7447), (303, 7471), (Start: 313 @7537 has 1 MA's), (335, 7627), (379, 7792), (401, 7879), (408, 7912), (438, 7978), (463, 8050),

(464, 8053), (471, 8077), (494, 8128), (498, 8143), (511, 8182), (516, 8203), (545, 8299), (636, 8536), (656, 8566), (658, 8569),

Gene: Jeeves\_11 Start: 6561, Stop: 8318, Start Num: 63

Candidate Starts for Jeeves\_11:

(Start: 63 @6561 has 231 MA's), (131, 6669), (143, 6693), (162, 6759), (165, 6768), (173, 6792), (189, 6843), (219, 6927), (263, 7074), (265, 7077), (299, 7188), (303, 7212), (Start: 313 @7278 has 1 MA's), (319, 7302), (335, 7368), (357, 7434), (382, 7542), (400, 7617), (435, 7719), (464, 7794), (468, 7806), (471, 7818), (472, 7821), (498, 7881), (511, 7920), (516, 7941), (545, 8037), (636, 8274), (654, 8301),

Gene: Jeffabunny\_15 Start: 7536, Stop: 9290, Start Num: 63

Candidate Starts for Jeffabunny\_15:

(Start: 63 @7536 has 231 MA's), (173, 7767), (189, 7818), (203, 7854), (225, 7929), (265, 8052), (276, 8091), (299, 8160), (303, 8184), (304, 8187), (Start: 313 @8250 has 1 MA's), (319, 8274), (344, 8373), (345, 8376), (356, 8403), (357, 8406), (438, 8691), (468, 8778), (471, 8790), (498, 8853), (511, 8892), (516, 8913), (539, 8997), (545, 9009), (636, 9246), (654, 9273), (656, 9276),

Gene: JenCasNa\_13 Start: 6955, Stop: 8655, Start Num: 65

Candidate Starts for JenCasNa\_13:

(Start: 65 @6955 has 85 MA's), (94, 7003), (175, 7138), (238, 7330), (265, 7417), (275, 7453), (Start: 313 @7615 has 1 MA's), (335, 7705), (356, 7768), (392, 7930), (464, 8128), (471, 8152), (472, 8155), (498, 8218), (505, 8239), (516, 8278), (545, 8374), (569, 8428), (594, 8464), (636, 8611), (656, 8641), (658, 8644),

Gene: Jennelsea\_2 Start: 629, Stop: 2209, Start Num: 134

Candidate Starts for Jennelsea\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: JeppNRM\_14 Start: 7027, Stop: 8727, Start Num: 65

Candidate Starts for JeppNRM\_14:

(Start: 65 @7027 has 85 MA's), (94, 7075), (Start: 137 @7147 has 1 MA's), (175, 7210), (204, 7294), (265, 7489), (Start: 313 @7687 has 1 MA's), (335, 7777), (356, 7840), (362, 7879), (392, 8002), (464, 8200), (471, 8224), (472, 8227), (498, 8290), (502, 8302), (505, 8311), (516, 8350), (545, 8446), (569, 8500), (594, 8536), (636, 8683), (656, 8713), (658, 8716),

Gene: Jerm\_14 Start: 7848, Stop: 9635, Start Num: 63

Candidate Starts for Jerm\_14:

(Start: 63 @7848 has 231 MA's), (128, 7956), (138, 7977), (160, 8043), (161, 8049), (173, 8085), (182, 8109), (203, 8172), (263, 8367), (265, 8370), (299, 8478), (Start: 313 @8568 has 1 MA's), (319, 8592), (337, 8667), (351, 8709), (357, 8724), (433, 9024), (502, 9210), (511, 9237), (516, 9258), (545, 9354), (636, 9591), (656, 9621),

Gene: Jerm2\_12 Start: 7221, Stop: 8909, Start Num: 70

Candidate Starts for Jerm2\_12:

(Start: 70 @7221 has 45 MA's), (175, 7392), (Start: 179 @7401 has 2 MA's), (213, 7485), (216, 7512), (219, 7521), (265, 7671), (274, 7704), (299, 7779), (Start: 313 @7869 has 1 MA's), (319, 7893), (327,

7920), (337, 7968), (379, 8124), (392, 8184), (472, 8409), (477, 8418), (481, 8430), (498, 8472), (505, 8493), (515, 8520), (545, 8628), (594, 8718), (621, 8823),

Gene: Jester\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Jester\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (377, 4053), (395, 4125), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: JetBlade\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for JetBlade\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Jevington\_8 Start: 2746, Stop: 4392, Start Num: 59

Candidate Starts for Jevington\_8:

(Start: 59 @2746 has 85 MA's), (Start: 150 @2896 has 2 MA's), (213, 3016), (215, 3040), (Start: 218 @3049 has 2 MA's), (246, 3142), (248, 3148), (250, 3157), (255, 3184), (266, 3205), (296, 3292), (307, 3364), (Start: 313 @3388 has 1 MA's), (338, 3487), (347, 3523), (357, 3541), (376, 3628), (396, 3664), (405, 3700), (464, 3850), (470, 3871), (502, 3961), (511, 3988), (533, 4069), (545, 4108), (556, 4129), (563, 4153), (599, 4213), (624, 4309),

Gene: JewelBug\_15 Start: 7534, Stop: 9288, Start Num: 63

Candidate Starts for JewelBug\_15:

(Start: 63 @7534 has 231 MA's), (173, 7765), (189, 7816), (203, 7852), (225, 7927), (265, 8050), (276, 8089), (299, 8158), (303, 8182), (304, 8185), (Start: 313 @8248 has 1 MA's), (319, 8272), (344, 8371), (345, 8374), (356, 8401), (357, 8404), (438, 8689), (468, 8776), (471, 8788), (498, 8851), (511, 8890), (516, 8911), (539, 8995), (545, 9007), (636, 9244), (654, 9271), (656, 9274),

Gene: Jhitchelle\_6 Start: 2144, Stop: 3790, Start Num: 61

Candidate Starts for Jhitchelle\_6:

(Start: 57 @2135 has 2 MA's), (Start: 61 @2144 has 11 MA's), (Start: 64 @2147 has 1 MA's), (Start: 75 @2162 has 21 MA's), (107, 2216), (189, 2366), (203, 2402), (213, 2414), (Start: 218 @2447 has 2 MA's), (239, 2519), (246, 2540), (250, 2555), (255, 2582), (259, 2591), (266, 2603), (296, 2690), (304, 2738), (305, 2741), (307, 2762), (Start: 313 @2786 has 1 MA's), (338, 2885), (389, 3038), (405, 3098), (464, 3248), (470, 3269), (511, 3386), (545, 3506), (558, 3533), (563, 3551), (595, 3599), (624, 3707),

Gene: Jiawan\_12 Start: 8277, Stop: 9932, Start Num: 143

Candidate Starts for Jiawan\_12:

(Start: 63 @8145 has 231 MA's), (Start: 75 @8160 has 21 MA's), (Start: 80 @8166 has 5 MA's), (143, 8277), (173, 8376), (225, 8538), (248, 8610), (265, 8664), (276, 8703), (299, 8775), (Start: 313 @8865 has 1 MA's), (319, 8889), (351, 9006), (357, 9021), (382, 9129), (400, 9204), (408, 9240), (423, 9300), (468, 9420), (475, 9441), (494, 9480), (511, 9534), (512, 9537), (516, 9555), (531, 9609), (539, 9639), (545, 9651), (594, 9741), (600, 9759), (636, 9888), (654, 9915), (656, 9918),

Gene: Jifall16\_23 Start: 12784, Stop: 14511, Start Num: 96

Candidate Starts for Jifall16\_23:

(19, 12550), (43, 12679), (Start: 96 @12784 has 12 MA's), (184, 12934), (197, 12985), (200, 12991), (212, 13030), (216, 13060), (223, 13084), (225, 13102), (229, 13129), (236, 13192), (241, 13210),

(317, 13495), (323, 13522), (343, 13606), (367, 13690), (371, 13702), (380, 13735), (405, 13813),  
(444, 13891), (464, 13963), (476, 13996), (492, 14059), (498, 14086), (506, 14110), (514, 14134),  
(547, 14233), (567, 14281), (621, 14419), (629, 14449), (659, 14503),

Gene: Jinglebell\_2 Start: 581, Stop: 2218, Start Num: 99

Candidate Starts for Jinglebell\_2:

(Start: 91 @578 has 1 MA's), (Start: 99 @581 has 202 MA's), (Start: 115 @605 has 3 MA's), (Start: 134 @638 has 1 MA's), (Start: 144 @662 has 2 MA's), (146, 665), (185, 728), (200, 767), (222, 854), (223, 860), (233, 914), (245, 938), (248, 947), (249, 950), (252, 971), (258, 992), (282, 1064), (296, 1103), (306, 1172), (309, 1178), (317, 1208), (318, 1211), (319, 1220), (323, 1235), (327, 1253), (338, 1304), (364, 1397), (367, 1406), (417, 1577), (435, 1589), (464, 1673), (474, 1703), (476, 1706), (478, 1709), (498, 1766), (503, 1781), (505, 1787), (506, 1790), (511, 1805), (514, 1814), (532, 1883), (543, 1913), (547, 1922), (560, 1955), (576, 1988), (593, 2015), (605, 2048), (609, 2069), (611, 2075), (612, 2078), (617, 2099), (621, 2123), (624, 2132), (625, 2135), (650, 2192),

Gene: Jobu08\_13 Start: 7026, Stop: 8726, Start Num: 65

Candidate Starts for Jobu08\_13:

(Start: 65 @7026 has 85 MA's), (94, 7074), (175, 7209), (238, 7401), (265, 7488), (Start: 313 @7686 has 1 MA's), (335, 7776), (356, 7839), (392, 8001), (464, 8199), (471, 8223), (472, 8226), (498, 8289), (505, 8310), (516, 8349), (545, 8445), (569, 8499), (594, 8535), (636, 8682), (656, 8712), (658, 8715),

Gene: Joemato\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for Joemato\_2:

(Start: 84 @533 has 42 MA's), (247, 905), (265, 962), (280, 1010), (305, 1100), (316, 1154), (344, 1274), (367, 1364), (418, 1526), (464, 1649), (545, 1904), (553, 1919), (576, 1973), (599, 2054), (620, 2138), (627, 2162),

Gene: JoeyJr\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for JoeyJr\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: JohnDoe\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for JohnDoe\_2:

(Start: 84 @533 has 42 MA's), (247, 905), (265, 962), (280, 1010), (305, 1100), (316, 1154), (344, 1274), (367, 1364), (418, 1526), (464, 1649), (545, 1904), (553, 1919), (599, 2054), (620, 2138), (627, 2162),

Gene: JohnThicc\_2 Start: 553, Stop: 2268, Start Num: 59

Candidate Starts for JohnThicc\_2:

(Start: 59 @553 has 85 MA's), (Start: 137 @652 has 1 MA's), (243, 925), (255, 976), (265, 994), (280, 1042), (285, 1054), (305, 1135), (344, 1309), (366, 1396), (409, 1522), (472, 1711), (502, 1795), (545, 1939), (553, 1954), (599, 2083), (627, 2191), (656, 2254),

Gene: JoieB\_36 Start: 11144, Stop: 12886, Start Num: 101

Candidate Starts for JoieB\_36:

(Start: 101 @11144 has 80 MA's), (175, 11261), (189, 11306), (206, 11372), (208, 11387), (215, 11420), (216, 11423), (221, 11438), (226, 11462), (227, 11465), (238, 11495), (244, 11516), (246, 11534), (249, 11543), (256, 11579), (265, 11594), (278, 11639), (296, 11681), (301, 11720), (305, 11732), (307, 11753), (320, 11804), (327, 11825), (388, 12047), (412, 12152), (414, 12161), (447, 12194), (455, 12215), (456, 12218), (460, 12245), (464, 12275), (468, 12287), (472, 12302), (477, 12311), (479, 12317), (493, 12359), (495, 12368), (500, 12383), (505, 12398), (523, 12458), (531, 12497), (540, 12530), (556, 12560), (557, 12563), (583, 12647), (599, 12701), (604, 12716), (612, 12743), (624, 12797), (654, 12869), (656, 12872),

Gene: JoongJeon\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for JoongJeon\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Jordennis\_15 Start: 7523, Stop: 9277, Start Num: 63

Candidate Starts for Jordennis\_15:

(Start: 63 @7523 has 231 MA's), (173, 7754), (189, 7805), (203, 7841), (225, 7916), (265, 8039), (276, 8078), (299, 8147), (303, 8171), (304, 8174), (Start: 313 @8237 has 1 MA's), (319, 8261), (356, 8390), (357, 8393), (383, 8504), (432, 8666), (464, 8753), (468, 8765), (471, 8777), (494, 8825), (498, 8840), (511, 8879), (516, 8900), (539, 8984), (545, 8996), (636, 9233), (654, 9260), (656, 9263),

Gene: Jorgensen\_11 Start: 6804, Stop: 8492, Start Num: 62

Candidate Starts for Jorgensen\_11:

(Start: 62 @6804 has 371 MA's), (Start: 179 @6984 has 2 MA's), (213, 7068), (219, 7104), (265, 7254), (299, 7362), (Start: 313 @7452 has 1 MA's), (319, 7476), (327, 7503), (337, 7551), (379, 7707), (392, 7767), (477, 8001), (481, 8013), (498, 8055), (505, 8076), (515, 8103), (545, 8211), (594, 8301), (621, 8406),

Gene: Joselito\_12 Start: 8024, Stop: 9787, Start Num: 63

Candidate Starts for Joselito\_12:

(Start: 63 @8024 has 231 MA's), (Start: 80 @8045 has 5 MA's), (128, 8132), (173, 8261), (182, 8285), (203, 8348), (248, 8492), (263, 8543), (265, 8546), (299, 8657), (303, 8681), (304, 8684), (Start: 313 @8747 has 1 MA's), (316, 8756), (319, 8771), (351, 8888), (357, 8903), (368, 8963), (389, 9047), (468, 9275), (471, 9287), (494, 9335), (498, 9350), (511, 9389), (516, 9410), (527, 9449), (539, 9494), (545, 9506), (636, 9743), (654, 9770),

Gene: JoshKayV\_14 Start: 7836, Stop: 9626, Start Num: 63

Candidate Starts for JoshKayV\_14:

(Start: 63 @7836 has 231 MA's), (128, 7944), (138, 7965), (173, 8073), (203, 8160), (265, 8361), (299, 8469), (Start: 313 @8559 has 1 MA's), (319, 8583), (351, 8700), (357, 8715), (433, 9015), (502, 9201), (511, 9228), (516, 9249), (545, 9345), (636, 9582), (656, 9612),

Gene: Journey13\_10 Start: 6587, Stop: 8341, Start Num: 63

Candidate Starts for Journey13\_10:

(Start: 63 @6587 has 231 MA's), (Start: 148 @6731 has 2 MA's), (173, 6818), (203, 6905), (263, 7100), (265, 7103), (276, 7142), (299, 7211), (Start: 313 @7301 has 1 MA's), (319, 7325), (344, 7424), (345, 7427), (356, 7454), (357, 7457), (435, 7742), (464, 7817), (468, 7829), (471, 7841), (494, 7889), (498, 7904), (516, 7964), (539, 8048), (545, 8060), (636, 8297), (654, 8324), (656, 8327), (658, 8330),

Gene: Jovo\_9 Start: 6297, Stop: 8048, Start Num: 42

Candidate Starts for Jovo\_9:

(Start: 37 @6270 has 19 MA's), (Start: 42 @6297 has 30 MA's), (73, 6366), (140, 6480), (143, 6486), (203, 6618), (225, 6693), (226, 6696), (269, 6831), (284, 6870), (291, 6894), (Start: 313 @7002 has 1 MA's), (324, 7047), (342, 7125), (344, 7131), (385, 7296), (395, 7329), (401, 7350), (464, 7524), (471, 7548), (472, 7551), (498, 7611), (502, 7623), (511, 7650), (516, 7671), (539, 7755), (545, 7767), (636, 8004), (658, 8037), (660, 8043),

Gene: Jsquared\_11 Start: 6331, Stop: 8112, Start Num: 63

Candidate Starts for Jsquared\_11:

(20, 6172), (Start: 63 @6331 has 231 MA's), (Start: 148 @6475 has 2 MA's), (160, 6520), (173, 6562), (182, 6586), (203, 6649), (221, 6703), (263, 6844), (265, 6847), (276, 6886), (299, 6955), (Start: 313 @7045 has 1 MA's), (319, 7069), (356, 7198), (357, 7201), (421, 7474), (511, 7714), (516, 7735), (539, 7819), (545, 7831), (636, 8068), (654, 8095), (656, 8098), (658, 8101),

Gene: Jstan\_2 Start: 534, Stop: 2240, Start Num: 84

Candidate Starts for Jstan\_2:

(Start: 84 @534 has 42 MA's), (Start: 137 @621 has 1 MA's), (247, 906), (265, 963), (270, 984), (280, 1011), (305, 1101), (316, 1155), (326, 1200), (344, 1275), (367, 1365), (409, 1488), (418, 1527), (464, 1650), (523, 1830), (531, 1863), (545, 1905), (553, 1920), (599, 2055), (609, 2091), (624, 2151), (627, 2163),

Gene: Juicebox\_3 Start: 1306, Stop: 2937, Start Num: 112

Candidate Starts for Juicebox\_3:

(111, 1303), (Start: 112 @1306 has 1 MA's), (124, 1315), (Start: 218 @1573 has 2 MA's), (243, 1663), (255, 1714), (257, 1720), (265, 1732), (326, 1972), (343, 2044), (362, 2119), (386, 2179), (412, 2284), (427, 2308), (455, 2350), (468, 2407), (472, 2422), (479, 2437), (495, 2470), (545, 2650), (574, 2707), (597, 2746), (623, 2848), (627, 2863), (658, 2926),

Gene: JuliaChild\_13 Start: 7479, Stop: 9167, Start Num: 62

Candidate Starts for JuliaChild\_13:

(Start: 62 @7479 has 371 MA's), (Start: 179 @7659 has 2 MA's), (213, 7743), (219, 7779), (225, 7806), (265, 7929), (299, 8037), (Start: 313 @8127 has 1 MA's), (319, 8151), (327, 8178), (337, 8226), (379, 8382), (392, 8442), (477, 8676), (481, 8688), (498, 8730), (505, 8751), (515, 8778), (545, 8886), (594, 8976), (621, 9081),

Gene: JuneStar\_2 Start: 545, Stop: 2242, Start Num: 84

Candidate Starts for JuneStar\_2:

(10, 242), (Start: 84 @545 has 42 MA's), (Start: 137 @632 has 1 MA's), (247, 917), (265, 974), (276, 1016), (305, 1112), (316, 1166), (344, 1286), (367, 1376), (464, 1661), (502, 1772), (523, 1841), (545, 1916), (553, 1931), (599, 2057), (620, 2141), (627, 2165),

Gene: Juniper1\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Juniper1\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 134 @628 has 1 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (358, 1345), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (569, 1963), (576, 1978), (590, 1993), (593, 2005), (605, 2038), (609, 2059), (611, 2065), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: KADY\_14 Start: 7041, Stop: 8741, Start Num: 65

Candidate Starts for KADY\_14:

(Start: 65 @7041 has 85 MA's), (94, 7089), (175, 7224), (238, 7416), (265, 7503), (Start: 313 @7701 has 1 MA's), (335, 7791), (356, 7854), (392, 8016), (464, 8214), (471, 8238), (472, 8241), (498, 8304), (505, 8325), (516, 8364), (545, 8460), (569, 8514), (594, 8550), (636, 8697), (656, 8727), (658, 8730),

Gene: KBG\_12 Start: 7912, Stop: 9600, Start Num: 62

Candidate Starts for KBG\_12:

(Start: 62 @7912 has 371 MA's), (Start: 179 @8092 has 2 MA's), (213, 8176), (219, 8212), (225, 8239), (265, 8362), (299, 8470), (Start: 313 @8560 has 1 MA's), (319, 8584), (337, 8659), (379, 8815), (392, 8875), (472, 9100), (477, 9109), (481, 9121), (498, 9163), (505, 9184), (515, 9211), (545, 9319), (594, 9409), (621, 9514),

Gene: KFPoly\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for KFPoly\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: KSSJEB\_11 Start: 6817, Stop: 8505, Start Num: 62

Candidate Starts for KSSJEB\_11:

(Start: 62 @6817 has 371 MA's), (213, 7081), (215, 7105), (253, 7240), (265, 7267), (274, 7300), (299, 7375), (Start: 313 @7465 has 1 MA's), (319, 7489), (327, 7516), (337, 7564), (359, 7633), (379, 7720), (391, 7777), (392, 7780), (472, 8005), (477, 8014), (481, 8026), (498, 8068), (505, 8089), (515, 8116), (545, 8224), (594, 8314), (621, 8419),

Gene: Kabluna\_27 Start: 11923, Stop: 13647, Start Num: 102

Candidate Starts for Kabluna\_27:

(Start: 99 @11917 has 202 MA's), (Start: 102 @11923 has 27 MA's), (184, 12067), (197, 12118), (200, 12124), (207, 12151), (212, 12163), (216, 12193), (223, 12217), (225, 12235), (317, 12628), (323, 12655), (367, 12823), (371, 12835), (380, 12868), (405, 12946), (488, 13162), (492, 13192), (506, 13243), (518, 13291), (547, 13366), (552, 13378), (567, 13414), (621, 13552), (629, 13582),

Gene: Kachowdy\_11 Start: 6549, Stop: 8246, Start Num: 62

Candidate Starts for Kachowdy\_11:

(Start: 62 @6549 has 371 MA's), (109, 6621), (213, 6819), (257, 6993), (265, 7005), (276, 7044), (283, 7056), (299, 7113), (303, 7137), (Start: 313 @7203 has 1 MA's), (316, 7212), (335, 7293), (342, 7320), (379, 7458), (395, 7524), (401, 7545), (406, 7569), (408, 7578), (438, 7644), (464, 7719), (471, 7743), (472, 7746), (475, 7752), (479, 7761), (498, 7809), (516, 7869), (545, 7965), (563, 8010), (569, 8019), (625, 8172), (636, 8202), (656, 8232), (658, 8235),

Gene: Kaine\_6 Start: 2218, Stop: 3864, Start Num: 61

Candidate Starts for Kaine\_6:

(Start: 57 @2209 has 2 MA's), (Start: 61 @2218 has 11 MA's), (Start: 64 @2221 has 1 MA's), (Start: 75 @2236 has 21 MA's), (189, 2440), (203, 2476), (Start: 218 @2521 has 2 MA's), (246, 2614), (250, 2629), (255, 2656), (259, 2665), (266, 2677), (296, 2764), (304, 2812), (Start: 313 @2860 has 1 MA's), (338, 2959), (351, 2998), (389, 3112), (395, 3133), (405, 3172), (441, 3253), (464, 3322), (466, 3328), (470, 3343), (494, 3406), (532, 3538), (545, 3580), (558, 3607), (563, 3625), (595, 3673), (624, 3781),

Gene: Kalb97\_14 Start: 7027, Stop: 8727, Start Num: 65

Candidate Starts for Kalb97\_14:

(Start: 65 @7027 has 85 MA's), (94, 7075), (Start: 137 @7147 has 1 MA's), (175, 7210), (265, 7489), (Start: 313 @7687 has 1 MA's), (335, 7777), (356, 7840), (392, 8002), (464, 8200), (471, 8224), (472, 8227), (498, 8290), (502, 8302), (505, 8311), (511, 8329), (516, 8350), (545, 8446), (569, 8500), (594, 8536), (636, 8683), (656, 8713), (658, 8716),

Gene: Kalimba\_2 Start: 593, Stop: 2281, Start Num: 90

Candidate Starts for Kalimba\_2:

(Start: 90 @593 has 17 MA's), (201, 794), (243, 938), (250, 962), (265, 1007), (295, 1094), (305, 1148), (312, 1187), (344, 1322), (371, 1424), (409, 1535), (453, 1646), (464, 1697), (545, 1952), (553, 1967), (624, 2192), (627, 2204), (634, 2219),

Gene: Kalnoky\_14 Start: 7029, Stop: 8729, Start Num: 65

Candidate Starts for Kalnoky\_14:

(Start: 65 @7029 has 85 MA's), (94, 7077), (Start: 137 @7149 has 1 MA's), (175, 7212), (265, 7491), (Start: 313 @7689 has 1 MA's), (335, 7779), (356, 7842), (392, 8004), (464, 8202), (471, 8226), (472, 8229), (498, 8292), (502, 8304), (505, 8313), (511, 8331), (516, 8352), (545, 8448), (569, 8502), (594, 8538), (636, 8685), (656, 8715), (658, 8718),

Gene: Kalpine\_15 Start: 9215, Stop: 11002, Start Num: 63

Candidate Starts for Kalpine\_15:

(20, 9047), (29, 9098), (Start: 63 @9215 has 231 MA's), (128, 9323), (138, 9344), (173, 9452), (189, 9503), (203, 9539), (221, 9593), (225, 9614), (263, 9734), (265, 9737), (299, 9845), (Start: 313 @9935 has 1 MA's), (319, 9959), (345, 10061), (357, 10091), (464, 10478), (498, 10565), (502, 10577), (511, 10604), (512, 10607), (516, 10625), (545, 10721), (636, 10958), (654, 10985), (656, 10988), (658, 10991), (659, 10994),

Gene: Kamy\_11 Start: 6885, Stop: 8582, Start Num: 62

Candidate Starts for Kamy\_11:

(Start: 62 @6885 has 371 MA's), (Start: 81 @6909 has 1 MA's), (Start: 148 @7032 has 2 MA's), (196, 7122), (213, 7155), (238, 7254), (263, 7338), (265, 7341), (276, 7380), (299, 7449), (303, 7473), (Start: 313 @7539 has 1 MA's), (335, 7629), (379, 7794), (401, 7881), (408, 7914), (438, 7980), (463, 8052), (464, 8055), (471, 8079), (494, 8130), (498, 8145), (511, 8184), (516, 8205), (545, 8301), (636, 8538), (656, 8568), (658, 8571),

Gene: Kanely\_12 Start: 7589, Stop: 9277, Start Num: 62

Candidate Starts for Kanely\_12:

(Start: 62 @7589 has 371 MA's), (213, 7853), (215, 7877), (265, 8039), (274, 8072), (299, 8147), (Start: 313 @8237 has 1 MA's), (319, 8261), (327, 8288), (337, 8336), (379, 8492), (392, 8552), (477, 8786), (481, 8798), (498, 8840), (505, 8861), (515, 8888), (545, 8996), (594, 9086), (621, 9191),

Gene: Karhdo\_2 Start: 588, Stop: 2225, Start Num: 99

Candidate Starts for Karhdo\_2:

(Start: 99 @588 has 202 MA's), (109, 603), (Start: 115 @612 has 3 MA's), (118, 618), (Start: 134 @645 has 1 MA's), (Start: 144 @669 has 2 MA's), (146, 672), (185, 735), (189, 753), (200, 774), (222, 861), (223, 867), (233, 921), (241, 933), (245, 945), (248, 954), (249, 957), (252, 978), (258, 999), (267, 1014), (282, 1071), (296, 1110), (306, 1179), (309, 1185), (317, 1215), (318, 1218), (319, 1227), (323, 1242), (327, 1260), (338, 1311), (367, 1413), (417, 1584), (435, 1596), (450, 1614), (464, 1680), (474, 1710), (476, 1713), (478, 1716), (498, 1773), (503, 1788), (505, 1794), (506, 1797), (511, 1812), (514, 1821), (532, 1890), (543, 1920), (547, 1929), (560, 1962), (576, 1995), (593, 2022), (605, 2055), (611, 2082), (612, 2085), (617, 2106), (621, 2130), (624, 2139), (625, 2142), (650, 2199),

Gene: Katalie\_7 Start: 2648, Stop: 4294, Start Num: 59

Candidate Starts for Katalie\_7:

(Start: 59 @2648 has 85 MA's), (Start: 75 @2666 has 21 MA's), (189, 2870), (Start: 218 @2951 has 2 MA's), (255, 3086), (266, 3107), (282, 3152), (296, 3194), (307, 3266), (Start: 313 @3290 has 1 MA's), (338, 3389), (357, 3443), (367, 3500), (405, 3602), (425, 3662), (447, 3689), (470, 3773), (475, 3785), (502, 3863), (513, 3896), (533, 3971), (545, 4010), (556, 4031), (558, 4037), (563, 4055), (609, 4151), (624, 4211),

Gene: Katalie136\_11 Start: 6893, Stop: 8590, Start Num: 62

Candidate Starts for Katalie136\_11:

(Start: 62 @6893 has 371 MA's), (Start: 81 @6917 has 1 MA's), (213, 7163), (239, 7268), (263, 7346), (265, 7349), (276, 7388), (299, 7457), (303, 7481), (Start: 313 @7547 has 1 MA's), (335, 7637), (379, 7802), (401, 7889), (454, 8015), (463, 8060), (464, 8063), (471, 8087), (498, 8153), (511, 8192), (516, 8213), (545, 8309), (635, 8543), (636, 8546), (656, 8576), (658, 8579),

Gene: KatherineG\_14 Start: 6808, Stop: 8505, Start Num: 63

Candidate Starts for KatherineG\_14:

(Start: 63 @6808 has 231 MA's), (78, 6826), (175, 6988), (248, 7213), (265, 7267), (299, 7375), (304, 7402), (Start: 313 @7465 has 1 MA's), (319, 7489), (471, 8005), (498, 8068), (512, 8110), (545, 8224), (599, 8329), (636, 8461), (654, 8488), (656, 8491), (658, 8494),

Gene: KayGee\_4 Start: 906, Stop: 2582, Start Num: 101

Candidate Starts for KayGee\_4:

(Start: 101 @906 has 80 MA's), (Start: 137 @957 has 1 MA's), (147, 978), (177, 1023), (189, 1065), (203, 1101), (250, 1263), (259, 1299), (265, 1308), (266, 1311), (278, 1359), (283, 1371), (305, 1458), (347, 1638), (362, 1692), (406, 1872), (412, 1905), (455, 1971), (466, 2037), (468, 2043), (498, 2127), (523, 2208), (531, 2241), (558, 2310), (599, 2388), (625, 2487), (632, 2508), (635, 2514), (656, 2568), (658, 2571),

Gene: Kaylissa\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for Kaylissa\_2:

(10, 242), (13, 251), (Start: 84 @533 has 42 MA's), (247, 905), (265, 962), (280, 1010), (305, 1100), (316, 1154), (344, 1274), (367, 1364), (418, 1526), (464, 1649), (545, 1904), (553, 1919), (576, 1973), (599, 2054), (620, 2138), (627, 2162),

Gene: Kazan\_15 Start: 7539, Stop: 9293, Start Num: 63

Candidate Starts for Kazan\_15:

(Start: 63 @7539 has 231 MA's), (173, 7770), (189, 7821), (203, 7857), (225, 7932), (265, 8055), (276, 8094), (299, 8163), (303, 8187), (304, 8190), (Start: 313 @8253 has 1 MA's), (319, 8277), (344, 8376), (345, 8379), (356, 8406), (357, 8409), (438, 8694), (468, 8781), (471, 8793), (498, 8856), (511, 8895), (516, 8916), (539, 9000), (545, 9012), (636, 9249), (654, 9276), (656, 9279),

Gene: KeAlii\_2 Start: 518, Stop: 2215, Start Num: 87

Candidate Starts for KeAlii\_2:

(Start: 87 @518 has 7 MA's), (Start: 99 @539 has 202 MA's), (247, 890), (265, 947), (305, 1085), (308, 1109), (326, 1184), (344, 1259), (418, 1511), (464, 1631), (533, 1850), (545, 1886), (553, 1901), (627, 2144),

Gene: KekoraPapaka\_10 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for KekoraPapaka\_10:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Kenmech\_14 Start: 8093, Stop: 9781, Start Num: 70

Candidate Starts for Kenmech\_14:

(Start: 70 @8093 has 45 MA's), (Start: 179 @8273 has 2 MA's), (213, 8357), (216, 8384), (219, 8393), (265, 8543), (274, 8576), (299, 8651), (Start: 313 @8741 has 1 MA's), (319, 8765), (327, 8792), (337, 8840), (342, 8858), (359, 8909), (375, 8984), (379, 8996), (392, 9056), (477, 9290), (481, 9302), (498, 9344), (505, 9365), (515, 9392), (545, 9500), (594, 9590), (621, 9695),

Gene: Kenuha5\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Kenuha5\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Kerberos\_15 Start: 7375, Stop: 9162, Start Num: 63

Candidate Starts for Kerberos\_15:

(22, 7216), (26, 7243), (Start: 63 @7375 has 231 MA's), (128, 7483), (138, 7504), (160, 7570), (173, 7612), (203, 7699), (263, 7894), (265, 7897), (299, 8005), (Start: 313 @8095 has 1 MA's), (319, 8119), (344, 8218), (356, 8248), (357, 8251), (383, 8362), (433, 8551), (494, 8710), (498, 8725), (502, 8737), (511, 8764), (516, 8785), (539, 8869), (545, 8881), (594, 8971), (636, 9118), (654, 9145), (656, 9148),

Gene: Kersh\_2 Start: 575, Stop: 2212, Start Num: 99

Candidate Starts for Kersh\_2:

(Start: 99 @575 has 202 MA's), (Start: 105 @584 has 2 MA's), (Start: 115 @599 has 3 MA's), (Start: 127 @620 has 1 MA's), (Start: 134 @632 has 1 MA's), (Start: 144 @656 has 2 MA's), (146, 659), (153, 677), (185, 722), (200, 761), (222, 848), (233, 908), (241, 920), (245, 932), (248, 941), (249, 944), (252, 965), (258, 986), (267, 1001), (282, 1058), (296, 1097), (306, 1166), (309, 1172), (317, 1202), (318, 1205), (319, 1214), (323, 1229), (327, 1247), (338, 1298), (364, 1391), (367, 1400), (417, 1571), (435, 1583), (464, 1667), (474, 1697), (476, 1700), (478, 1703), (498, 1760), (503, 1775), (505, 1781), (506, 1784), (511, 1799), (514, 1808), (532, 1877), (543, 1907), (547, 1916), (560, 1949), (576, 1982), (593, 2009), (605, 2042), (611, 2069), (612, 2072), (617, 2093), (621, 2117), (624, 2126), (625, 2129), (650, 2186),

Gene: Keziacharles14\_11 Start: 6280, Stop: 8064, Start Num: 63

Candidate Starts for Keziacharles14\_11:

(Start: 63 @6280 has 231 MA's), (Start: 75 @6292 has 21 MA's), (Start: 80 @6298 has 5 MA's), (143, 6409), (173, 6508), (225, 6670), (248, 6742), (265, 6796), (276, 6835), (299, 6907), (Start: 313 @6997 has 1 MA's), (319, 7021), (337, 7096), (351, 7138), (357, 7153), (382, 7261), (400, 7336), (423, 7432), (454, 7492), (498, 7627), (511, 7666), (516, 7687), (539, 7771), (545, 7783), (594, 7873), (600, 7891), (636, 8020), (654, 8047), (656, 8050),

Gene: KidneyBean\_24 Start: 12917, Stop: 14644, Start Num: 96

Candidate Starts for KidneyBean\_24:

(19, 12683), (43, 12812), (Start: 96 @12917 has 12 MA's), (184, 13067), (197, 13118), (200, 13124), (212, 13163), (216, 13193), (223, 13217), (225, 13235), (229, 13262), (236, 13325), (317, 13628), (323, 13655), (343, 13739), (367, 13823), (371, 13835), (380, 13868), (405, 13946), (444, 14024), (464, 14096), (476, 14129), (492, 14192), (498, 14219), (506, 14243), (514, 14267), (547, 14366), (567, 14414), (621, 14552), (629, 14582), (659, 14636),

Gene: KikiBouba\_12 Start: 7560, Stop: 9248, Start Num: 62

Candidate Starts for KikiBouba\_12:

(Start: 62 @7560 has 371 MA's), (Start: 179 @7740 has 2 MA's), (213, 7824), (219, 7860), (225, 7887), (265, 8010), (274, 8043), (299, 8118), (Start: 313 @8208 has 1 MA's), (319, 8232), (327, 8259), (337, 8307), (359, 8376), (375, 8451), (379, 8463), (382, 8472), (392, 8523), (472, 8748), (477, 8757), (481, 8769), (498, 8811), (505, 8832), (515, 8859), (545, 8967), (594, 9057), (621, 9162),

Gene: Killigrew\_9 Start: 6454, Stop: 8142, Start Num: 62

Candidate Starts for Killigrew\_9:

(Start: 62 @6454 has 371 MA's), (213, 6718), (215, 6742), (265, 6904), (274, 6937), (299, 7012), (Start: 313 @7102 has 1 MA's), (319, 7126), (327, 7153), (337, 7201), (375, 7345), (379, 7357), (392, 7417), (472, 7642), (477, 7651), (481, 7663), (498, 7705), (505, 7726), (515, 7753), (545, 7861), (594, 7951), (621, 8056),

Gene: Kimba\_12 Start: 8076, Stop: 9839, Start Num: 63

Candidate Starts for Kimba\_12:

(31, 7956), (Start: 63 @8076 has 231 MA's), (Start: 80 @8097 has 5 MA's), (128, 8184), (173, 8313), (182, 8337), (203, 8400), (248, 8544), (263, 8595), (265, 8598), (299, 8709), (303, 8733), (304, 8736), (Start: 313 @8799 has 1 MA's), (316, 8808), (319, 8823), (351, 8940), (357, 8955), (368, 9015), (389, 9099), (468, 9327), (471, 9339), (494, 9387), (498, 9402), (511, 9441), (516, 9462), (527, 9501), (539, 9546), (545, 9558), (636, 9795), (654, 9822),

Gene: Kimchi1738\_12 Start: 6780, Stop: 8363, Start Num: 139

Candidate Starts for Kimchi1738\_12:

(25, 6516), (33, 6552), (Start: 139 @6780 has 1 MA's), (176, 6834), (202, 6924), (207, 6948), (215, 6990), (216, 6993), (223, 7017), (241, 7092), (242, 7095), (252, 7137), (262, 7164), (268, 7182), (274, 7209), (279, 7227), (281, 7230), (299, 7284), (317, 7368), (318, 7371), (322, 7392), (327, 7413), (345, 7485), (358, 7515), (367, 7566), (394, 7647), (465, 7842), (468, 7851), (502, 7944), (511, 7971), (514, 7980), (552, 8091), (591, 8154), (621, 8265), (624, 8274), (659, 8355),

Gene: Kimona\_8 Start: 4308, Stop: 6005, Start Num: 62

Candidate Starts for Kimona\_8:

(Start: 62 @4308 has 371 MA's), (131, 4419), (213, 4578), (263, 4761), (265, 4764), (269, 4779), (276, 4803), (299, 4872), (303, 4896), (Start: 313 @4962 has 1 MA's), (316, 4971), (342, 5079), (379, 5217), (438, 5403), (471, 5502), (498, 5568), (502, 5580), (511, 5607), (516, 5628), (539, 5712), (545, 5724), (569, 5778), (635, 5958), (636, 5961), (656, 5991), (658, 5994),

Gene: KingCyrus\_14 Start: 7824, Stop: 9611, Start Num: 63

Candidate Starts for KingCyrus\_14:

(Start: 63 @7824 has 231 MA's), (128, 7932), (138, 7953), (173, 8061), (263, 8343), (265, 8346), (299, 8454), (Start: 313 @8544 has 1 MA's), (319, 8568), (351, 8685), (357, 8700), (433, 9000), (502, 9186), (511, 9213), (516, 9234), (545, 9330), (636, 9567), (656, 9597),

Gene: KingJulian\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for KingJulian\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611,

2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: KingMidas\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for KingMidas\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Kingmustik0402\_11 Start: 6876, Stop: 8573, Start Num: 62

Candidate Starts for Kingmustik0402\_11:

(Start: 62 @6876 has 371 MA's), (Start: 81 @6900 has 1 MA's), (Start: 148 @7023 has 2 MA's), (196, 7113), (213, 7146), (238, 7245), (263, 7329), (265, 7332), (276, 7371), (299, 7440), (303, 7464), (Start: 313 @7530 has 1 MA's), (335, 7620), (379, 7785), (401, 7872), (408, 7905), (438, 7971), (463, 8043), (464, 8046), (471, 8070), (494, 8121), (498, 8136), (511, 8175), (516, 8196), (545, 8292), (636, 8529), (656, 8559), (658, 8562),

Gene: Kinmap\_11 Start: 7441, Stop: 9138, Start Num: 69

Candidate Starts for Kinmap\_11:

(69, 7441), (76, 7453), (131, 7543), (138, 7558), (204, 7702), (265, 7897), (289, 7969), (299, 8008), (Start: 313 @8098 has 1 MA's), (319, 8122), (432, 8527), (471, 8638), (502, 8713), (512, 8743), (545, 8857), (558, 8884), (636, 9094), (654, 9121), (656, 9124),

Gene: Kipper29\_15 Start: 7533, Stop: 9287, Start Num: 63

Candidate Starts for Kipper29\_15:

(Start: 63 @7533 has 231 MA's), (173, 7764), (189, 7815), (203, 7851), (225, 7926), (265, 8049), (276, 8088), (299, 8157), (303, 8181), (304, 8184), (Start: 313 @8247 has 1 MA's), (319, 8271), (344, 8370), (345, 8373), (356, 8400), (357, 8403), (438, 8688), (468, 8775), (471, 8787), (498, 8850), (511, 8889), (516, 8910), (539, 8994), (545, 9006), (636, 9243), (654, 9270), (656, 9273),

Gene: KittenMittens\_10 Start: 4782, Stop: 6473, Start Num: 62

Candidate Starts for KittenMittens\_10:

(Start: 62 @4782 has 371 MA's), (Start: 81 @4806 has 1 MA's), (Start: 148 @4929 has 2 MA's), (186, 4998), (203, 5049), (213, 5061), (225, 5124), (250, 5202), (265, 5247), (276, 5286), (296, 5334), (299, 5355), (303, 5379), (Start: 313 @5430 has 1 MA's), (344, 5553), (384, 5700), (397, 5760), (408, 5805), (464, 5946), (484, 6000), (498, 6036), (511, 6075), (516, 6096), (545, 6192), (576, 6261), (636, 6429), (656, 6459), (658, 6462),

Gene: Klodlith\_12 Start: 6308, Stop: 8080, Start Num: 75

Candidate Starts for Klodlith\_12:

(Start: 63 @6296 has 231 MA's), (Start: 75 @6308 has 21 MA's), (143, 6425), (173, 6524), (223, 6674), (225, 6686), (248, 6758), (265, 6812), (276, 6851), (299, 6923), (310, 6995), (Start: 313 @7013 has 1 MA's), (319, 7037), (351, 7154), (357, 7169), (382, 7277), (400, 7352), (423, 7448), (475, 7589), (494, 7628), (511, 7682), (512, 7685), (516, 7703), (531, 7757), (539, 7787), (545, 7799), (594, 7889), (600, 7907), (636, 8036), (654, 8063), (656, 8066),

Gene: Koan\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Koan\_11:

(20, 6707), (23, 6725), (27, 6755), (Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Koduck\_12 Start: 6618, Stop: 8399, Start Num: 63

Candidate Starts for Koduck\_12:

(20, 6459), (Start: 63 @6618 has 231 MA's), (Start: 148 @6762 has 2 MA's), (160, 6807), (173, 6849), (203, 6936), (221, 6990), (263, 7131), (265, 7134), (276, 7173), (299, 7242), (Start: 313 @7332 has 1 MA's), (319, 7356), (356, 7485), (357, 7488), (511, 8001), (512, 8004), (516, 8022), (539, 8106), (545, 8118), (636, 8355), (654, 8382), (656, 8385), (658, 8388),

Gene: Koella\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Koella\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Koko\_15 Start: 7533, Stop: 9287, Start Num: 63

Candidate Starts for Koko\_15:

(Start: 63 @7533 has 231 MA's), (143, 7665), (173, 7764), (182, 7788), (189, 7815), (203, 7851), (225, 7926), (265, 8049), (269, 8064), (276, 8088), (299, 8157), (303, 8181), (304, 8184), (Start: 313 @8247 has 1 MA's), (319, 8271), (356, 8400), (357, 8403), (383, 8514), (432, 8676), (464, 8763), (468, 8775), (471, 8787), (494, 8835), (498, 8850), (511, 8889), (516, 8910), (539, 8994), (545, 9006), (636, 9243), (654, 9270), (656, 9273),

Gene: Koreni\_10 Start: 6533, Stop: 8230, Start Num: 62

Candidate Starts for Koreni\_10:

(Start: 62 @6533 has 371 MA's), (Start: 81 @6557 has 1 MA's), (Start: 148 @6680 has 2 MA's), (196, 6770), (213, 6803), (238, 6902), (263, 6986), (265, 6989), (276, 7028), (299, 7097), (303, 7121), (Start: 313 @7187 has 1 MA's), (335, 7277), (379, 7442), (401, 7529), (408, 7562), (438, 7628), (463, 7700), (464, 7703), (471, 7727), (494, 7778), (498, 7793), (511, 7832), (516, 7853), (545, 7949), (636, 8186), (656, 8216), (658, 8219),

Gene: Krakatau\_3 Start: 1235, Stop: 2872, Start Num: 99

Candidate Starts for Krakatau\_3:

(Start: 99 @1235 has 202 MA's), (109, 1250), (Start: 115 @1259 has 3 MA's), (118, 1265), (Start: 134 @1292 has 1 MA's), (Start: 144 @1316 has 2 MA's), (146, 1319), (185, 1382), (189, 1400), (200, 1421), (222, 1508), (223, 1514), (233, 1568), (241, 1580), (245, 1592), (248, 1601), (249, 1604), (252, 1625), (258, 1646), (267, 1661), (282, 1718), (296, 1757), (306, 1826), (309, 1832), (317, 1862), (318, 1865), (319, 1874), (323, 1889), (327, 1907), (338, 1958), (367, 2060), (417, 2231), (435, 2243), (450, 2261), (464, 2327), (474, 2357), (476, 2360), (478, 2363), (498, 2420), (503, 2435), (505, 2441), (506, 2444), (511, 2459), (514, 2468), (532, 2537), (543, 2567), (547, 2576), (560, 2609), (576, 2642), (593, 2669), (605, 2702), (611, 2729), (612, 2732), (617, 2753), (621, 2777), (624, 2786), (625, 2789), (650, 2846),

Gene: Kratak\_11 Start: 6879, Stop: 8576, Start Num: 62

Candidate Starts for Kratak\_11:

(Start: 62 @6879 has 371 MA's), (Start: 81 @6903 has 1 MA's), (Start: 148 @7026 has 2 MA's), (196, 7116), (213, 7149), (238, 7248), (263, 7332), (265, 7335), (276, 7374), (299, 7443), (303, 7467), (Start: 313 @7533 has 1 MA's), (335, 7623), (379, 7788), (401, 7875), (408, 7908), (438, 7974), (463, 8046), (464, 8049), (471, 8073), (494, 8124), (498, 8139), (511, 8178), (516, 8199), (545, 8295), (636, 8532), (656, 8562), (658, 8565),

Gene: Kremtemulon\_11 Start: 6929, Stop: 8626, Start Num: 62

Candidate Starts for Kremtemulon\_11:

(Start: 62 @6929 has 371 MA's), (Start: 81 @6953 has 1 MA's), (Start: 148 @7076 has 2 MA's), (196, 7166), (213, 7199), (238, 7298), (263, 7382), (265, 7385), (276, 7424), (299, 7493), (Start: 313 @7583 has 1 MA's), (335, 7673), (379, 7838), (401, 7925), (408, 7958), (463, 8096), (464, 8099), (471, 8123), (498, 8189), (511, 8228), (516, 8249), (545, 8345), (635, 8579), (636, 8582), (656, 8612), (658, 8615),

Gene: Krishelle\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Krishelle\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (440, 4236), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: KristaRAM\_3 Start: 1235, Stop: 2872, Start Num: 99

Candidate Starts for KristaRAM\_3:

(Start: 99 @1235 has 202 MA's), (109, 1250), (Start: 115 @1259 has 3 MA's), (118, 1265), (Start: 134 @1292 has 1 MA's), (Start: 144 @1316 has 2 MA's), (146, 1319), (185, 1382), (189, 1400), (200, 1421), (222, 1508), (223, 1514), (233, 1568), (245, 1592), (248, 1601), (249, 1604), (252, 1625), (258, 1646), (267, 1661), (282, 1718), (296, 1757), (306, 1826), (309, 1832), (317, 1862), (318, 1865), (319, 1874), (323, 1889), (327, 1907), (338, 1958), (367, 2060), (417, 2231), (435, 2243), (450, 2261), (464, 2327), (474, 2357), (476, 2360), (478, 2363), (498, 2420), (503, 2435), (505, 2441), (506, 2444), (511, 2459), (514, 2468), (532, 2537), (543, 2567), (547, 2576), (560, 2609), (576, 2642), (593, 2669), (605, 2702), (611, 2729), (612, 2732), (617, 2753), (621, 2777), (624, 2786), (625, 2789), (650, 2846),

Gene: Kristoff\_12 Start: 6880, Stop: 8556, Start Num: 62

Candidate Starts for Kristoff\_12:

(Start: 62 @6880 has 371 MA's), (Start: 148 @7012 has 2 MA's), (213, 7144), (222, 7189), (250, 7285), (265, 7330), (276, 7369), (296, 7417), (299, 7438), (303, 7462), (Start: 313 @7513 has 1 MA's), (344, 7636), (379, 7768), (397, 7843), (408, 7888), (438, 7954), (464, 8029), (471, 8053), (472, 8056), (498, 8119), (511, 8158), (512, 8161), (516, 8179), (545, 8275), (576, 8344), (636, 8512), (656, 8542), (658, 8545),

Gene: Kromp\_2 Start: 782, Stop: 2422, Start Num: 106

Candidate Starts for Kromp\_2:

(Start: 106 @782 has 1 MA's), (133, 833), (181, 914), (219, 1049), (241, 1175), (265, 1262), (300, 1385), (303, 1394), (307, 1421), (311, 1436), (312, 1439), (321, 1478), (327, 1493), (335, 1532), (373, 1646), (386, 1679), (408, 1763), (441, 1829), (455, 1850), (456, 1853), (506, 2027), (512, 2045), (539, 2123), (552, 2147), (555, 2153), (613, 2285), (621, 2327), (622, 2330), (656, 2408), (659, 2414),

Gene: Kugel\_12 Start: 7046, Stop: 8737, Start Num: 62

Candidate Starts for Kugel\_12:

(Start: 62 @7046 has 371 MA's), (213, 7310), (223, 7361), (265, 7496), (299, 7607), (303, 7631), (Start: 313 @7697 has 1 MA's), (319, 7721), (362, 7889), (391, 8009), (392, 8012), (464, 8210), (472, 8237), (501, 8309), (505, 8321), (512, 8342), (527, 8399), (545, 8456), (594, 8546), (595, 8549), (624, 8660), (625, 8663), (636, 8693), (656, 8723), (658, 8726),

Gene: Kurt\_24 Start: 13154, Stop: 14881, Start Num: 96

Candidate Starts for Kurt\_24:

(19, 12920), (43, 13049), (Start: 96 @13154 has 12 MA's), (184, 13304), (197, 13355), (200, 13361), (212, 13400), (216, 13430), (223, 13454), (225, 13472), (229, 13499), (236, 13562), (241, 13580), (317, 13865), (323, 13892), (343, 13976), (367, 14060), (371, 14072), (380, 14105), (405, 14183), (444, 14261), (464, 14333), (476, 14366), (492, 14429), (498, 14456), (506, 14480), (514, 14504), (547, 14603), (567, 14651), (621, 14789), (629, 14819), (659, 14873),

Gene: Kuwabara\_2 Start: 486, Stop: 2147, Start Num: 101

Candidate Starts for Kuwabara\_2:

(34, 324), (39, 357), (41, 360), (56, 411), (60, 420), (Start: 83 @453 has 13 MA's), (Start: 101 @486 has 80 MA's), (Start: 137 @537 has 1 MA's), (143, 549), (154, 576), (201, 666), (203, 681), (216, 720), (224, 747), (225, 756), (226, 759), (238, 792), (250, 843), (259, 879), (261, 882), (265, 888), (270, 903), (271, 906), (282, 942), (299, 996), (307, 1047), (Start: 313 @1071 has 1 MA's), (335, 1158), (352, 1218), (362, 1263), (372, 1299), (384, 1341), (393, 1395), (401, 1419), (406, 1443), (430, 1503), (436, 1509), (460, 1572), (471, 1626), (479, 1644), (498, 1701), (502, 1713), (511, 1740), (533, 1821), (542, 1851), (559, 1890), (571, 1914), (599, 1962), (600, 1965), (624, 2058), (625, 2061), (629, 2079), (635, 2088), (640, 2100), (658, 2136),

Gene: KyMonks1A\_13 Start: 7323, Stop: 9011, Start Num: 62

Candidate Starts for KyMonks1A\_13:

(Start: 62 @7323 has 371 MA's), (Start: 179 @7503 has 2 MA's), (213, 7587), (219, 7623), (225, 7650), (265, 7773), (299, 7881), (Start: 313 @7971 has 1 MA's), (319, 7995), (327, 8022), (337, 8070), (379, 8226), (392, 8286), (472, 8511), (477, 8520), (481, 8532), (498, 8574), (505, 8595), (515, 8622), (545, 8730), (594, 8820), (621, 8925),

Gene: Kyee\_11 Start: 6885, Stop: 8582, Start Num: 62

Candidate Starts for Kyee\_11:

(20, 6708), (23, 6726), (27, 6756), (Start: 62 @6885 has 371 MA's), (Start: 81 @6909 has 1 MA's), (Start: 148 @7032 has 2 MA's), (196, 7122), (213, 7155), (238, 7254), (263, 7338), (265, 7341), (276, 7380), (299, 7449), (303, 7473), (Start: 313 @7539 has 1 MA's), (335, 7629), (379, 7794), (401, 7881), (408, 7914), (438, 7980), (463, 8052), (464, 8055), (471, 8079), (494, 8130), (498, 8145), (511, 8184), (516, 8205), (545, 8301), (636, 8538), (656, 8568), (658, 8571),

Gene: Kykar\_9 Start: 6543, Stop: 8234, Start Num: 62

Candidate Starts for Kykar\_9:

(Start: 62 @6543 has 371 MA's), (Start: 179 @6723 has 2 MA's), (213, 6807), (223, 6858), (265, 6993), (299, 7104), (303, 7128), (Start: 313 @7194 has 1 MA's), (319, 7218), (362, 7386), (391, 7506), (392, 7509), (464, 7707), (472, 7734), (501, 7806), (505, 7818), (512, 7839), (527, 7896), (545, 7953), (594, 8043), (595, 8046), (624, 8157), (625, 8160), (636, 8190), (656, 8220), (658, 8223),

Gene: L5\_13 Start: 6626, Stop: 8407, Start Num: 63

Candidate Starts for L5\_13:

(20, 6467), (Start: 63 @6626 has 231 MA's), (Start: 148 @6770 has 2 MA's), (160, 6815), (173, 6857), (203, 6944), (221, 6998), (263, 7139), (265, 7142), (276, 7181), (299, 7250), (Start: 313 @7340 has 1 MA's), (319, 7364), (356, 7493), (357, 7496), (511, 8009), (512, 8012), (516, 8030), (539, 8114), (545, 8126), (636, 8363), (654, 8390), (656, 8393), (658, 8396),

Gene: LBerry\_13 Start: 6957, Stop: 8657, Start Num: 65

Candidate Starts for LBerry\_13:

(Start: 65 @6957 has 85 MA's), (94, 7005), (175, 7140), (238, 7332), (265, 7419), (Start: 313 @7617 has 1 MA's), (335, 7707), (356, 7770), (392, 7932), (464, 8130), (471, 8154), (472, 8157), (498, 8220),

(505, 8241), (516, 8280), (545, 8376), (569, 8430), (594, 8466), (636, 8613), (656, 8643), (658, 8646),

Gene: LHTSCC\_11 Start: 6861, Stop: 8558, Start Num: 62

Candidate Starts for LHTSCC\_11:

(Start: 62 @6861 has 371 MA's), (Start: 81 @6885 has 1 MA's), (Start: 148 @7008 has 2 MA's), (196, 7098), (213, 7131), (263, 7314), (265, 7317), (276, 7356), (299, 7425), (303, 7449), (Start: 313 @7515 has 1 MA's), (335, 7605), (379, 7770), (401, 7857), (408, 7890), (438, 7956), (463, 8028), (471, 8055), (494, 8106), (498, 8121), (511, 8160), (516, 8181), (545, 8277), (636, 8514), (656, 8544), (658, 8547),

Gene: LadyAstra\_2 Start: 553, Stop: 2268, Start Num: 59

Candidate Starts for LadyAstra\_2:

(Start: 59 @553 has 85 MA's), (Start: 137 @652 has 1 MA's), (243, 925), (255, 976), (265, 994), (280, 1042), (285, 1054), (305, 1135), (344, 1309), (366, 1396), (409, 1522), (472, 1711), (502, 1795), (545, 1939), (553, 1954), (599, 2083), (627, 2191), (656, 2254),

Gene: LadyBird\_12 Start: 7410, Stop: 9197, Start Num: 63

Candidate Starts for LadyBird\_12:

(Start: 63 @7410 has 231 MA's), (128, 7518), (138, 7539), (173, 7647), (182, 7671), (263, 7929), (265, 7932), (299, 8040), (Start: 313 @8130 has 1 MA's), (319, 8154), (351, 8271), (357, 8286), (433, 8586), (502, 8772), (511, 8799), (516, 8820), (545, 8916), (636, 9153), (654, 9180), (656, 9183),

Gene: Lambert1\_12 Start: 7044, Stop: 8741, Start Num: 62

Candidate Starts for Lambert1\_12:

(Start: 62 @7044 has 371 MA's), (Start: 81 @7068 has 1 MA's), (213, 7314), (257, 7488), (265, 7500), (276, 7539), (283, 7551), (299, 7608), (303, 7632), (Start: 313 @7698 has 1 MA's), (316, 7707), (335, 7788), (344, 7821), (379, 7953), (383, 7965), (395, 8019), (401, 8040), (408, 8073), (432, 8127), (464, 8214), (471, 8238), (472, 8241), (475, 8247), (479, 8256), (498, 8304), (511, 8343), (512, 8346), (516, 8364), (545, 8460), (569, 8514), (625, 8667), (636, 8697), (656, 8727), (658, 8730),

Gene: Lamina13\_11 Start: 6599, Stop: 8287, Start Num: 62

Candidate Starts for Lamina13\_11:

(Start: 62 @6599 has 371 MA's), (Start: 179 @6779 has 2 MA's), (213, 6863), (215, 6887), (265, 7049), (274, 7082), (299, 7157), (Start: 313 @7247 has 1 MA's), (319, 7271), (327, 7298), (337, 7346), (379, 7502), (382, 7511), (392, 7562), (477, 7796), (481, 7808), (498, 7850), (505, 7871), (515, 7898), (545, 8006), (594, 8096), (621, 8201),

Gene: Landor\_13 Start: 9202, Stop: 10980, Start Num: 63

Candidate Starts for Landor\_13:

(Start: 63 @9202 has 231 MA's), (Start: 80 @9220 has 5 MA's), (143, 9331), (Start: 148 @9343 has 2 MA's), (159, 9385), (162, 9397), (165, 9406), (173, 9430), (203, 9517), (263, 9712), (265, 9715), (276, 9754), (299, 9823), (Start: 313 @9913 has 1 MA's), (319, 9937), (344, 10036), (357, 10069), (433, 10369), (464, 10456), (502, 10555), (511, 10582), (516, 10603), (545, 10699), (636, 10936), (654, 10963), (656, 10966),

Gene: Lannister\_7 Start: 2384, Stop: 4030, Start Num: 59

Candidate Starts for Lannister\_7:

(Start: 59 @2384 has 85 MA's), (189, 2606), (Start: 218 @2687 has 2 MA's), (255, 2822), (266, 2843), (282, 2888), (296, 2930), (307, 3002), (Start: 313 @3026 has 1 MA's), (338, 3125), (357, 3179), (405, 3338), (425, 3398), (470, 3509), (502, 3599), (533, 3707), (545, 3746), (556, 3767), (558, 3773), (563, 3791), (609, 3887), (624, 3947),

Gene: LappelDuVide\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for LappelDuVide\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Larenn\_13 Start: 7730, Stop: 9493, Start Num: 63

Candidate Starts for Larenn\_13:

(Start: 63 @7730 has 231 MA's), (128, 7838), (138, 7859), (173, 7967), (182, 7991), (263, 8252), (265, 8255), (276, 8294), (299, 8363), (Start: 313 @8453 has 1 MA's), (319, 8477), (351, 8594), (357, 8609), (432, 8882), (464, 8969), (468, 8981), (471, 8993), (494, 9041), (498, 9056), (511, 9095), (516, 9116), (545, 9212), (636, 9449), (654, 9476), (656, 9479), (658, 9482), (659, 9485),

Gene: LarryKay\_13 Start: 7043, Stop: 8743, Start Num: 65

Candidate Starts for LarryKay\_13:

(Start: 65 @7043 has 85 MA's), (94, 7091), (175, 7226), (238, 7418), (265, 7505), (Start: 313 @7703 has 1 MA's), (335, 7793), (356, 7856), (392, 8018), (464, 8216), (471, 8240), (472, 8243), (498, 8306), (505, 8327), (516, 8366), (545, 8462), (569, 8516), (594, 8552), (636, 8699), (656, 8729), (658, 8732),

Gene: LastJedi\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for LastJedi\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: LastResort\_14 Start: 6686, Stop: 8383, Start Num: 63

Candidate Starts for LastResort\_14:

(Start: 63 @6686 has 231 MA's), (78, 6704), (175, 6866), (225, 7022), (248, 7091), (265, 7145), (299, 7253), (304, 7280), (Start: 313 @7343 has 1 MA's), (319, 7367), (471, 7883), (498, 7946), (512, 7988), (545, 8102), (599, 8207), (636, 8339), (654, 8366), (656, 8369), (658, 8372),

Gene: Latretium\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Latretium\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 134 @628 has 1 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (189, 736), (200, 757), (222, 844), (223, 850), (233, 904), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (267, 997), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (569, 1963), (576, 1978), (593, 2005), (605, 2038), (611, 2065), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Lauer\_3 Start: 958, Stop: 2634, Start Num: 101

Candidate Starts for Lauer\_3:

(Start: 101 @958 has 80 MA's), (Start: 137 @1009 has 1 MA's), (147, 1030), (177, 1075), (203, 1153), (224, 1219), (250, 1315), (259, 1351), (265, 1360), (266, 1363), (278, 1411), (283, 1423), (305, 1510), (347, 1690), (362, 1744), (406, 1924), (412, 1957), (455, 2023), (466, 2089), (468, 2095), (498, 2179), (523, 2260), (531, 2293), (558, 2362), (599, 2440), (625, 2539), (632, 2560), (635, 2566), (656, 2620),

(658, 2623),

Gene: Legacy\_6 Start: 2382, Stop: 4028, Start Num: 59

Candidate Starts for Legacy\_6:

(Start: 59 @2382 has 85 MA's), (Start: 75 @2400 has 21 MA's), (189, 2604), (Start: 218 @2685 has 2 MA's), (255, 2820), (266, 2841), (296, 2928), (307, 3000), (Start: 313 @3024 has 1 MA's), (338, 3123), (357, 3177), (389, 3276), (405, 3336), (468, 3498), (470, 3507), (502, 3597), (511, 3624), (532, 3702), (533, 3705), (545, 3744), (556, 3765), (558, 3771), (563, 3789), (609, 3885), (624, 3945),

Gene: Lego\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for Lego\_2:

(10, 242), (13, 251), (Start: 84 @533 has 42 MA's), (247, 905), (265, 962), (280, 1010), (305, 1100), (316, 1154), (344, 1274), (367, 1364), (418, 1526), (464, 1649), (545, 1904), (553, 1919), (576, 1973), (599, 2054), (627, 2162),

Gene: Lemur\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Lemur\_11:

(20, 6707), (23, 6725), (27, 6755), (Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: LeoAvram\_11 Start: 7031, Stop: 8581, Start Num: 148

Candidate Starts for LeoAvram\_11:

(20, 6707), (23, 6725), (27, 6755), (Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Leogania\_14 Start: 9575, Stop: 11362, Start Num: 63

Candidate Starts for Leogania\_14:

(Start: 63 @9575 has 231 MA's), (128, 9683), (138, 9704), (173, 9812), (203, 9899), (221, 9953), (263, 10094), (265, 10097), (276, 10136), (299, 10205), (Start: 313 @10295 has 1 MA's), (319, 10319), (351, 10436), (357, 10451), (433, 10751), (464, 10838), (502, 10937), (511, 10964), (516, 10985), (545, 11081), (636, 11318), (654, 11345), (656, 11348),

Gene: Leperchaun\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Leperchaun\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (367, 1397), (417, 1568), (435, 1580), (450, 1598), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Lesedi\_10 Start: 6758, Stop: 8446, Start Num: 62

Candidate Starts for Lesedi\_10:

(Start: 62 @6758 has 371 MA's), (213, 7022), (215, 7046), (265, 7208), (274, 7241), (299, 7316), (Start: 313 @7406 has 1 MA's), (319, 7430), (327, 7457), (337, 7505), (359, 7574), (379, 7661), (392,

7721), (477, 7955), (481, 7967), (498, 8009), (505, 8030), (515, 8057), (545, 8165), (594, 8255), (621, 8360),

Gene: Lev2\_9 Start: 6005, Stop: 7756, Start Num: 42

Candidate Starts for Lev2\_9:

(Start: 37 @5978 has 19 MA's), (Start: 42 @6005 has 30 MA's), (73, 6074), (97, 6113), (140, 6188), (143, 6194), (203, 6326), (225, 6401), (226, 6404), (269, 6539), (284, 6578), (291, 6602), (Start: 313 @6710 has 1 MA's), (324, 6755), (342, 6833), (344, 6839), (385, 7004), (395, 7037), (401, 7058), (464, 7232), (471, 7256), (472, 7259), (498, 7319), (502, 7331), (511, 7358), (516, 7379), (539, 7463), (545, 7475), (636, 7712), (658, 7745), (660, 7751),

Gene: Leviathan\_14 Start: 7880, Stop: 9667, Start Num: 63

Candidate Starts for Leviathan\_14:

(Start: 63 @7880 has 231 MA's), (128, 7988), (138, 8009), (160, 8075), (161, 8081), (173, 8117), (182, 8141), (203, 8204), (263, 8399), (265, 8402), (299, 8510), (Start: 313 @8600 has 1 MA's), (319, 8624), (337, 8699), (351, 8741), (357, 8756), (433, 9056), (502, 9242), (511, 9269), (516, 9290), (545, 9386), (636, 9623), (656, 9653),

Gene: Leviticus\_6 Start: 2420, Stop: 4048, Start Num: 75

Candidate Starts for Leviticus\_6:

(Start: 59 @2402 has 85 MA's), (Start: 75 @2420 has 21 MA's), (189, 2624), (Start: 218 @2705 has 2 MA's), (255, 2840), (266, 2861), (296, 2948), (307, 3020), (Start: 313 @3044 has 1 MA's), (338, 3143), (357, 3197), (389, 3296), (405, 3356), (468, 3518), (470, 3527), (502, 3617), (511, 3644), (532, 3722), (533, 3725), (545, 3764), (556, 3785), (558, 3791), (563, 3809), (609, 3905), (624, 3965),

Gene: Licorice\_13 Start: 7615, Stop: 9303, Start Num: 62

Candidate Starts for Licorice\_13:

(Start: 62 @7615 has 371 MA's), (213, 7879), (215, 7903), (265, 8065), (274, 8098), (299, 8173), (Start: 313 @8263 has 1 MA's), (319, 8287), (327, 8314), (337, 8362), (379, 8518), (392, 8578), (472, 8803), (477, 8812), (481, 8824), (498, 8866), (505, 8887), (515, 8914), (545, 9022), (594, 9112), (621, 9217),

Gene: Liebe\_2 Start: 532, Stop: 2271, Start Num: 58

Candidate Starts for Liebe\_2:

(Start: 58 @532 has 3 MA's), (Start: 101 @592 has 80 MA's), (107, 601), (Start: 137 @655 has 1 MA's), (196, 778), (239, 916), (243, 928), (250, 952), (265, 997), (280, 1045), (305, 1138), (326, 1237), (327, 1240), (339, 1297), (366, 1399), (367, 1402), (395, 1468), (409, 1525), (429, 1594), (472, 1714), (533, 1906), (545, 1942), (553, 1957), (609, 2122), (627, 2194), (634, 2209), (635, 2212), (656, 2257),

Gene: Lika\_6 Start: 2381, Stop: 4027, Start Num: 59

Candidate Starts for Lika\_6:

(Start: 59 @2381 has 85 MA's), (Start: 75 @2399 has 21 MA's), (189, 2603), (203, 2639), (255, 2819), (266, 2840), (296, 2927), (307, 2999), (Start: 313 @3023 has 1 MA's), (338, 3122), (342, 3137), (351, 3161), (353, 3167), (405, 3335), (464, 3485), (470, 3506), (502, 3596), (533, 3704), (545, 3743), (556, 3764), (558, 3770), (563, 3788), (624, 3944),

Gene: LilBib\_12 Start: 7558, Stop: 9246, Start Num: 62

Candidate Starts for LilBib\_12:

(Start: 62 @7558 has 371 MA's), (Start: 179 @7738 has 2 MA's), (213, 7822), (219, 7858), (225, 7885), (265, 8008), (299, 8116), (Start: 313 @8206 has 1 MA's), (319, 8230), (327, 8257), (337, 8305), (379, 8461), (392, 8521), (477, 8755), (481, 8767), (498, 8809), (505, 8830), (515, 8857), (545, 8965), (594, 9055), (621, 9160),

Gene: LilMoolah\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for LilMoolah\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (153, 674), (185, 719), (200, 758), (222, 845), (223, 851), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: LilTurb\_14 Start: 7907, Stop: 9694, Start Num: 63

Candidate Starts for LilTurb\_14:

(Start: 63 @7907 has 231 MA's), (128, 8015), (138, 8036), (160, 8102), (161, 8108), (173, 8144), (182, 8168), (203, 8231), (263, 8426), (265, 8429), (299, 8537), (Start: 313 @8627 has 1 MA's), (319, 8651), (337, 8726), (351, 8768), (357, 8783), (433, 9083), (502, 9269), (511, 9296), (516, 9317), (545, 9413), (636, 9650), (656, 9680),

Gene: Lilas\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for Lilas\_2:

(Start: 70 @485 has 45 MA's), (145, 623), (155, 650), (201, 782), (203, 797), (228, 881), (239, 911), (243, 923), (246, 932), (254, 971), (265, 992), (285, 1052), (295, 1076), (306, 1148), (316, 1184), (325, 1220), (345, 1310), (350, 1331), (361, 1376), (362, 1382), (366, 1400), (371, 1415), (439, 1589), (456, 1616), (472, 1685), (475, 1691), (494, 1757), (497, 1769), (506, 1796), (533, 1907), (539, 1943), (545, 1955), (549, 1961), (558, 1979), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627, 2207), (632, 2222), (656, 2270), (658, 2273),

Gene: Lilbit\_34 Start: 11121, Stop: 12863, Start Num: 101

Candidate Starts for Lilbit\_34:

(Start: 101 @11121 has 80 MA's), (175, 11238), (189, 11283), (206, 11349), (208, 11364), (215, 11397), (216, 11400), (221, 11415), (226, 11439), (227, 11442), (238, 11472), (244, 11493), (246, 11511), (249, 11520), (256, 11556), (265, 11571), (278, 11616), (296, 11658), (301, 11697), (305, 11709), (307, 11730), (320, 11781), (327, 11802), (388, 12024), (412, 12129), (414, 12138), (447, 12171), (455, 12192), (456, 12195), (460, 12222), (464, 12252), (468, 12264), (472, 12279), (477, 12288), (479, 12294), (493, 12336), (495, 12345), (500, 12360), (505, 12375), (523, 12435), (531, 12474), (540, 12507), (556, 12537), (557, 12540), (583, 12624), (599, 12678), (604, 12693), (612, 12720), (624, 12774), (654, 12846), (656, 12849),

Gene: Lilbunny\_15 Start: 7514, Stop: 9268, Start Num: 63

Candidate Starts for Lilbunny\_15:

(Start: 63 @7514 has 231 MA's), (143, 7646), (173, 7745), (182, 7769), (189, 7796), (203, 7832), (225, 7907), (265, 8030), (269, 8045), (276, 8069), (299, 8138), (303, 8162), (304, 8165), (Start: 313 @8228 has 1 MA's), (319, 8252), (356, 8381), (357, 8384), (383, 8495), (432, 8657), (464, 8744), (468, 8756), (471, 8768), (494, 8816), (498, 8831), (511, 8870), (516, 8891), (539, 8975), (545, 8987), (636, 9224), (654, 9251), (656, 9254),

Gene: Lilith\_13 Start: 6950, Stop: 8650, Start Num: 65

Candidate Starts for Lilith\_13:

(Start: 65 @6950 has 85 MA's), (94, 6998), (175, 7133), (238, 7325), (265, 7412), (Start: 313 @7610 has 1 MA's), (335, 7700), (356, 7763), (392, 7925), (464, 8123), (471, 8147), (472, 8150), (498, 8213), (505, 8234), (516, 8273), (545, 8369), (569, 8423), (594, 8459), (636, 8606), (656, 8636), (658, 8639),

Gene: Lilleskat\_11 Start: 8130, Stop: 9896, Start Num: 80

Candidate Starts for Lilleskat\_11:

(Start: 63 @8109 has 231 MA's), (Start: 75 @8124 has 21 MA's), (Start: 80 @8130 has 5 MA's), (143, 8241), (173, 8340), (225, 8502), (248, 8574), (265, 8628), (276, 8667), (299, 8739), (Start: 313 @8829 has 1 MA's), (319, 8853), (351, 8970), (357, 8985), (382, 9093), (400, 9168), (408, 9204), (423, 9264), (468, 9384), (475, 9405), (494, 9444), (511, 9498), (512, 9501), (516, 9519), (531, 9573), (539, 9603), (545, 9615), (594, 9705), (600, 9723), (636, 9852), (654, 9879), (656, 9882),

Gene: Lillie\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Lillie\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (463, 4308), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: LionsBait\_13 Start: 9186, Stop: 10973, Start Num: 63

Candidate Starts for LionsBait\_13:

(Start: 63 @9186 has 231 MA's), (128, 9294), (138, 9315), (169, 9405), (173, 9423), (182, 9447), (263, 9705), (265, 9708), (276, 9747), (299, 9816), (Start: 313 @9906 has 1 MA's), (319, 9930), (351, 10047), (357, 10062), (502, 10548), (511, 10575), (516, 10596), (545, 10692), (636, 10929), (654, 10956), (656, 10959),

Gene: LittleB\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for LittleB\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (257, 7328), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: LittleCherry\_9 Start: 6189, Stop: 7940, Start Num: 42

Candidate Starts for LittleCherry\_9:

(Start: 37 @6162 has 19 MA's), (Start: 42 @6189 has 30 MA's), (73, 6258), (140, 6372), (143, 6378), (203, 6510), (225, 6585), (226, 6588), (238, 6621), (248, 6654), (284, 6762), (291, 6786), (299, 6819), (Start: 313 @6894 has 1 MA's), (324, 6939), (342, 7017), (344, 7023), (359, 7068), (395, 7221), (401, 7242), (464, 7416), (471, 7440), (472, 7443), (498, 7503), (502, 7515), (511, 7542), (516, 7563), (539, 7647), (545, 7659), (636, 7896), (658, 7929), (660, 7935),

Gene: LittleGuy\_11 Start: 6827, Stop: 8524, Start Num: 62

Candidate Starts for LittleGuy\_11:

(20, 6650), (23, 6668), (27, 6698), (Start: 62 @6827 has 371 MA's), (Start: 81 @6851 has 1 MA's), (Start: 148 @6974 has 2 MA's), (196, 7064), (213, 7097), (238, 7196), (263, 7280), (265, 7283), (276, 7322), (299, 7391), (303, 7415), (Start: 313 @7481 has 1 MA's), (335, 7571), (379, 7736), (401, 7823), (408, 7856), (438, 7922), (463, 7994), (464, 7997), (471, 8021), (494, 8072), (498, 8087), (511, 8126), (516, 8147), (545, 8243), (636, 8480), (656, 8510), (658, 8513),

Gene: LittleLaf\_35 Start: 10850, Stop: 12592, Start Num: 101

Candidate Starts for LittleLaf\_35:

(Start: 101 @10850 has 80 MA's), (175, 10967), (189, 11012), (206, 11078), (208, 11093), (215, 11126), (216, 11129), (221, 11144), (226, 11168), (227, 11171), (238, 11201), (244, 11222), (246, 11240), (249, 11249), (256, 11285), (265, 11300), (278, 11345), (296, 11387), (301, 11426), (305, 11438), (307, 11459), (320, 11510), (327, 11531), (388, 11753), (412, 11858), (414, 11867), (447, 11900), (455, 11921), (456, 11924), (460, 11951), (464, 11981), (468, 11993), (472, 12008), (477, 12017), (479, 12023), (493, 12065), (495, 12074), (500, 12089), (505, 12104), (523, 12164), (531,

12203), (540, 12236), (556, 12266), (557, 12269), (583, 12353), (599, 12407), (604, 12422), (612, 12449), (624, 12503), (654, 12575), (656, 12578),

Gene: Lizalica\_2 Start: 531, Stop: 2237, Start Num: 84

Candidate Starts for Lizalica\_2:

(3, 54), (9, 240), (10, 243), (Start: 84 @531 has 42 MA's), (247, 903), (265, 960), (280, 1008), (305, 1098), (316, 1152), (344, 1272), (367, 1362), (418, 1524), (454, 1599), (464, 1647), (494, 1731), (516, 1806), (545, 1902), (553, 1917), (576, 1971), (599, 2052), (620, 2136), (627, 2160),

Gene: Lizziana\_2 Start: 573, Stop: 2210, Start Num: 99

Candidate Starts for Lizziana\_2:

(Start: 99 @573 has 202 MA's), (Start: 105 @582 has 2 MA's), (Start: 115 @597 has 3 MA's), (Start: 127 @618 has 1 MA's), (Start: 144 @654 has 2 MA's), (146, 657), (153, 675), (185, 720), (200, 759), (222, 846), (233, 906), (245, 930), (248, 939), (249, 942), (252, 963), (258, 984), (267, 999), (282, 1056), (296, 1095), (306, 1164), (309, 1170), (317, 1200), (318, 1203), (319, 1212), (323, 1227), (327, 1245), (338, 1296), (364, 1389), (367, 1398), (417, 1569), (435, 1581), (464, 1665), (474, 1695), (476, 1698), (478, 1701), (498, 1758), (503, 1773), (505, 1779), (506, 1782), (511, 1797), (514, 1806), (524, 1845), (532, 1875), (543, 1905), (547, 1914), (560, 1947), (576, 1980), (593, 2007), (605, 2040), (612, 2070), (617, 2091), (621, 2115), (624, 2124), (625, 2127), (650, 2184),

Gene: Llama\_2 Start: 581, Stop: 2218, Start Num: 99

Candidate Starts for Llama\_2:

(Start: 91 @578 has 1 MA's), (Start: 99 @581 has 202 MA's), (Start: 115 @605 has 3 MA's), (Start: 134 @638 has 1 MA's), (Start: 144 @662 has 2 MA's), (146, 665), (185, 728), (200, 767), (222, 854), (223, 860), (233, 914), (245, 938), (248, 947), (249, 950), (252, 971), (258, 992), (282, 1064), (296, 1103), (306, 1172), (309, 1178), (317, 1208), (318, 1211), (319, 1220), (323, 1235), (327, 1253), (338, 1304), (364, 1397), (367, 1406), (417, 1577), (435, 1589), (464, 1673), (474, 1703), (476, 1706), (478, 1709), (498, 1766), (503, 1781), (505, 1787), (506, 1790), (511, 1805), (514, 1814), (532, 1883), (543, 1913), (547, 1922), (560, 1955), (576, 1988), (593, 2015), (605, 2048), (609, 2069), (611, 2075), (612, 2078), (617, 2099), (621, 2123), (624, 2132), (625, 2135), (650, 2192),

Gene: Llij\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Llij\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (364, 1403), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (570, 1982), (576, 1994), (593, 2021), (605, 2054), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: LochMonster\_11 Start: 6859, Stop: 8556, Start Num: 62

Candidate Starts for LochMonster\_11:

(Start: 62 @6859 has 371 MA's), (Start: 81 @6883 has 1 MA's), (Start: 148 @7006 has 2 MA's), (196, 7096), (213, 7129), (238, 7228), (263, 7312), (265, 7315), (276, 7354), (299, 7423), (303, 7447), (Start: 313 @7513 has 1 MA's), (335, 7603), (401, 7855), (408, 7888), (438, 7954), (463, 8026), (464, 8029), (471, 8053), (494, 8104), (498, 8119), (511, 8158), (516, 8179), (545, 8275), (636, 8512), (656, 8542), (658, 8545),

Gene: Lockley\_11 Start: 6937, Stop: 8625, Start Num: 62

Candidate Starts for Lockley\_11:

(Start: 62 @6937 has 371 MA's), (213, 7201), (215, 7225), (265, 7387), (299, 7495), (Start: 313 @7585 has 1 MA's), (319, 7609), (327, 7636), (337, 7684), (359, 7753), (379, 7840), (382, 7849), (392, 7900), (477, 8134), (481, 8146), (498, 8188), (505, 8209), (515, 8236), (545, 8344), (594, 8434), (621, 8539),

Gene: Lökk\_15 Start: 9141, Stop: 10922, Start Num: 63

Candidate Starts for Lökk\_15:

(30, 9021), (49, 9114), (Start: 63 @9141 has 231 MA's), (143, 9273), (165, 9348), (173, 9372), (189, 9423), (263, 9654), (265, 9657), (276, 9696), (299, 9765), (Start: 313 @9855 has 1 MA's), (319, 9879), (344, 9978), (356, 10008), (357, 10011), (494, 10470), (498, 10485), (502, 10497), (511, 10524), (516, 10545), (545, 10641), (636, 10878), (654, 10905), (656, 10908),

Gene: Lollipop1437\_29 Start: 13812, Stop: 15491, Start Num: 99

Candidate Starts for Lollipop1437\_29:

(Start: 99 @13812 has 202 MA's), (184, 13962), (200, 14019), (207, 14046), (212, 14058), (219, 14097), (225, 14130), (317, 14472), (323, 14499), (367, 14667), (371, 14679), (380, 14712), (405, 14790), (454, 14892), (488, 15006), (506, 15087), (511, 15102), (523, 15144), (547, 15210), (552, 15222), (567, 15258), (591, 15285), (611, 15354), (612, 15357), (629, 15426),

Gene: London\_2 Start: 534, Stop: 2240, Start Num: 84

Candidate Starts for London\_2:

(Start: 84 @534 has 42 MA's), (Start: 137 @621 has 1 MA's), (247, 906), (265, 963), (270, 984), (280, 1011), (305, 1101), (316, 1155), (326, 1200), (344, 1275), (367, 1365), (409, 1488), (418, 1527), (464, 1650), (523, 1830), (531, 1863), (545, 1905), (553, 1920), (599, 2055), (609, 2091), (624, 2151), (627, 2163),

Gene: LoneWolf\_13 Start: 7971, Stop: 9743, Start Num: 75

Candidate Starts for LoneWolf\_13:

(Start: 63 @7956 has 231 MA's), (Start: 75 @7971 has 21 MA's), (143, 8088), (173, 8187), (182, 8211), (225, 8349), (248, 8421), (265, 8475), (276, 8514), (299, 8586), (Start: 313 @8676 has 1 MA's), (319, 8700), (337, 8775), (357, 8832), (382, 8940), (400, 9015), (408, 9051), (423, 9111), (454, 9171), (468, 9231), (475, 9252), (494, 9291), (511, 9345), (512, 9348), (516, 9366), (531, 9420), (539, 9450), (545, 9462), (595, 9555), (600, 9570), (636, 9699), (654, 9726), (656, 9729),

Gene: LonelyBoi\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for LonelyBoi\_2:

(Start: 70 @485 has 45 MA's), (145, 623), (201, 782), (203, 797), (239, 911), (243, 923), (246, 932), (254, 971), (265, 992), (295, 1076), (306, 1148), (316, 1184), (325, 1220), (345, 1310), (350, 1331), (361, 1376), (362, 1382), (366, 1400), (371, 1415), (439, 1589), (456, 1616), (472, 1685), (475, 1691), (494, 1757), (497, 1769), (506, 1796), (533, 1907), (539, 1943), (545, 1955), (558, 1979), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627, 2207), (632, 2222), (634, 2225), (656, 2270), (658, 2273),

Gene: LongHai\_6 Start: 2100, Stop: 3764, Start Num: 101

Candidate Starts for LongHai\_6:

(Start: 101 @2100 has 80 MA's), (131, 2139), (143, 2163), (203, 2292), (246, 2439), (250, 2454), (265, 2499), (278, 2547), (292, 2583), (304, 2640), (307, 2664), (317, 2700), (367, 2898), (372, 2913), (383, 2952), (449, 3138), (460, 3189), (464, 3219), (533, 3432), (542, 3462), (556, 3489), (559, 3501), (587, 3537), (588, 3540), (616, 3633), (629, 3690),

Gene: Loofah\_7 Start: 2247, Stop: 3908, Start Num: 59

Candidate Starts for Loofah\_7:

(Start: 59 @2247 has 85 MA's), (Start: 218 @2565 has 2 MA's), (246, 2658), (250, 2673), (255, 2700), (266, 2721), (296, 2808), (Start: 313 @2904 has 1 MA's), (321, 2937), (335, 2991), (344, 3024), (353,

3048), (368, 3117), (396, 3180), (397, 3186), (405, 3216), (409, 3234), (444, 3300), (463, 3363), (464, 3366), (468, 3378), (470, 3387), (473, 3396), (494, 3450), (502, 3477), (545, 3624), (556, 3645), (563, 3669), (599, 3729), (624, 3825), (660, 3903),

Gene: Looper\_15 Start: 6686, Stop: 8383, Start Num: 63

Candidate Starts for Looper\_15:

(Start: 63 @6686 has 231 MA's), (78, 6704), (175, 6866), (225, 7022), (248, 7091), (265, 7145), (299, 7253), (304, 7280), (Start: 313 @7343 has 1 MA's), (319, 7367), (471, 7883), (498, 7946), (512, 7988), (545, 8102), (599, 8207), (636, 8339), (654, 8366), (656, 8369), (658, 8372),

Gene: Lorelei\_6 Start: 2392, Stop: 4020, Start Num: 75

Candidate Starts for Lorelei\_6:

(Start: 59 @2374 has 85 MA's), (Start: 75 @2392 has 21 MA's), (189, 2596), (203, 2632), (255, 2812), (266, 2833), (282, 2878), (296, 2920), (307, 2992), (Start: 313 @3016 has 1 MA's), (338, 3115), (342, 3130), (351, 3154), (353, 3160), (405, 3328), (464, 3478), (470, 3499), (502, 3589), (533, 3697), (545, 3736), (556, 3757), (558, 3763), (563, 3781), (624, 3937), (660, 4015),

Gene: Lorenzo\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Lorenzo\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Loser\_15 Start: 9241, Stop: 11001, Start Num: 63

Candidate Starts for Loser\_15:

(Start: 63 @9241 has 231 MA's), (128, 9349), (138, 9370), (165, 9454), (173, 9478), (203, 9565), (248, 9709), (265, 9763), (299, 9871), (Start: 313 @9961 has 1 MA's), (319, 9985), (357, 10117), (389, 10261), (433, 10393), (464, 10477), (494, 10549), (498, 10564), (511, 10603), (512, 10606), (516, 10624), (545, 10720), (576, 10789), (636, 10957), (654, 10984), (656, 10987), (658, 10990), (659, 10993),

Gene: Louie6\_13 Start: 7044, Stop: 8744, Start Num: 65

Candidate Starts for Louie6\_13:

(Start: 65 @7044 has 85 MA's), (94, 7092), (175, 7227), (238, 7419), (265, 7506), (Start: 313 @7704 has 1 MA's), (335, 7794), (356, 7857), (392, 8019), (464, 8217), (471, 8241), (472, 8244), (498, 8307), (502, 8319), (505, 8328), (511, 8346), (516, 8367), (545, 8463), (569, 8517), (594, 8553), (636, 8700), (656, 8730), (658, 8733),

Gene: Lowa\_13 Start: 6949, Stop: 8649, Start Num: 65

Candidate Starts for Lowa\_13:

(Start: 65 @6949 has 85 MA's), (94, 6997), (175, 7132), (238, 7324), (265, 7411), (Start: 313 @7609 has 1 MA's), (335, 7699), (356, 7762), (392, 7924), (464, 8122), (471, 8146), (472, 8149), (498, 8212), (505, 8233), (516, 8272), (545, 8368), (569, 8422), (594, 8458), (636, 8605), (656, 8635), (658, 8638),

Gene: Lozinak\_30 Start: 8683, Stop: 10431, Start Num: 102

Candidate Starts for Lozinak\_30:

(Start: 102 @8683 has 27 MA's), (120, 8713), (187, 8842), (235, 9028), (241, 9067), (249, 9091), (254, 9121), (263, 9139), (271, 9166), (280, 9196), (326, 9388), (329, 9406), (370, 9568), (390, 9616), (396, 9631), (453, 9814), (455, 9820), (471, 9904), (501, 9991), (512, 10024), (541, 10138), (558, 10174), (569, 10198), (579, 10213), (640, 10387), (644, 10393),

Gene: Luchador\_12 Start: 7549, Stop: 9303, Start Num: 63

Candidate Starts for Luchador\_12:

(53, 7534), (Start: 63 @7549 has 231 MA's), (Start: 80 @7567 has 5 MA's), (131, 7654), (143, 7678), (159, 7732), (162, 7744), (165, 7753), (173, 7777), (189, 7828), (201, 7849), (263, 8059), (265, 8062), (299, 8173), (303, 8197), (Start: 313 @8263 has 1 MA's), (319, 8287), (335, 8353), (357, 8419), (382, 8527), (400, 8602), (435, 8704), (464, 8779), (468, 8791), (471, 8803), (472, 8806), (498, 8866), (516, 8926), (545, 9022), (576, 9091), (636, 9259), (654, 9286),

Gene: Lucivia\_12 Start: 8073, Stop: 9836, Start Num: 63

Candidate Starts for Lucivia\_12:

(31, 7953), (Start: 63 @8073 has 231 MA's), (Start: 80 @8094 has 5 MA's), (128, 8181), (173, 8310), (182, 8334), (203, 8397), (248, 8541), (263, 8592), (265, 8595), (299, 8706), (303, 8730), (304, 8733), (Start: 313 @8796 has 1 MA's), (316, 8805), (319, 8820), (351, 8937), (357, 8952), (368, 9012), (389, 9096), (468, 9324), (471, 9336), (494, 9384), (498, 9399), (511, 9438), (516, 9459), (527, 9498), (539, 9543), (545, 9555), (636, 9792), (654, 9819),

Gene: Lucyedi\_13 Start: 7527, Stop: 9281, Start Num: 63

Candidate Starts for Lucyedi\_13:

(Start: 63 @7527 has 231 MA's), (143, 7659), (173, 7758), (203, 7845), (225, 7920), (248, 7989), (263, 8040), (265, 8043), (299, 8151), (Start: 313 @8241 has 1 MA's), (319, 8265), (356, 8394), (357, 8397), (362, 8433), (433, 8673), (438, 8682), (464, 8757), (494, 8829), (498, 8844), (511, 8883), (516, 8904), (539, 8988), (545, 9000), (599, 9105), (621, 9195), (624, 9204), (636, 9237), (654, 9264), (656, 9267), (658, 9270), (659, 9273),

Gene: LugYA\_15 Start: 6955, Stop: 8655, Start Num: 65

Candidate Starts for LugYA\_15:

(Start: 65 @6955 has 85 MA's), (94, 7003), (175, 7138), (238, 7330), (265, 7417), (275, 7453), (Start: 313 @7615 has 1 MA's), (335, 7705), (356, 7768), (392, 7930), (464, 8128), (471, 8152), (472, 8155), (498, 8218), (505, 8239), (516, 8278), (545, 8374), (569, 8428), (594, 8464), (636, 8611), (656, 8641), (658, 8644),

Gene: LunaBlu\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for LunaBlu\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 134 @628 has 1 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (267, 997), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (569, 1963), (576, 1978), (593, 2005), (605, 2038), (611, 2065), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: LunaStella\_2 Start: 458, Stop: 2236, Start Num: 70

Candidate Starts for LunaStella\_2:

(Start: 70 @458 has 45 MA's), (104, 509), (117, 530), (130, 560), (Start: 134 @566 has 1 MA's), (142, 581), (165, 632), (187, 695), (189, 707), (203, 743), (219, 791), (223, 806), (225, 818), (227, 824), (245, 881), (246, 884), (248, 890), (251, 905), (254, 923), (255, 926), (265, 944), (305, 1085), (306, 1103), (Start: 313 @1130 has 1 MA's), (319, 1154), (326, 1187), (345, 1265), (367, 1355), (370, 1364), (374, 1379), (395, 1421), (396, 1424), (406, 1466), (408, 1475), (412, 1499), (439, 1541), (442, 1544), (456, 1568), (463, 1607), (464, 1610), (469, 1625), (475, 1643), (477, 1646), (501, 1727), (506, 1742), (507, 1745), (511, 1757), (519, 1796), (531, 1847), (533, 1853), (539, 1889), (545, 1901), (558, 1925), (569, 1952), (573, 1961), (575, 1964), (595, 2036), (609, 2084), (612, 2090), (618, 2123), (619, 2129), (621, 2135), (623, 2141), (624, 2144), (627, 2156), (634, 2174), (643, 2195), (652, 2213), (658, 2225),

Gene: LunarLander\_11 Start: 6725, Stop: 8413, Start Num: 62

Candidate Starts for LunarLander\_11:

(Start: 62 @6725 has 371 MA's), (213, 6989), (215, 7013), (265, 7175), (274, 7208), (299, 7283),  
(Start: 313 @7373 has 1 MA's), (319, 7397), (337, 7472), (379, 7628), (382, 7637), (391, 7685), (392,  
7688), (472, 7913), (477, 7922), (481, 7934), (498, 7976), (505, 7997), (515, 8024), (545, 8132), (594,  
8222), (621, 8327),

Gene: Lunsford\_12 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Lunsford\_12:

(20, 6707), (23, 6725), (27, 6755), (Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's),  
(Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276,  
7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880),  
(408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183),  
(516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: MA5\_11 Start: 6096, Stop: 7793, Start Num: 62

Candidate Starts for MA5\_11:

(Start: 62 @6096 has 371 MA's), (109, 6168), (138, 6222), (213, 6366), (257, 6540), (265, 6552), (276,  
6591), (283, 6603), (299, 6660), (303, 6684), (Start: 313 @6750 has 1 MA's), (316, 6759), (335, 6840),  
(342, 6867), (379, 7005), (395, 7071), (401, 7092), (408, 7125), (438, 7191), (464, 7266), (471, 7290),  
(472, 7293), (475, 7299), (498, 7356), (502, 7368), (511, 7395), (516, 7416), (545, 7512), (563, 7557),  
(569, 7566), (625, 7719), (636, 7749), (656, 7779), (658, 7782),

Gene: MAnor\_4 Start: 897, Stop: 2573, Start Num: 101

Candidate Starts for MAnor\_4:

(Start: 101 @897 has 80 MA's), (Start: 137 @948 has 1 MA's), (147, 969), (177, 1014), (224, 1158),  
(243, 1221), (250, 1254), (259, 1290), (265, 1299), (266, 1302), (274, 1335), (278, 1350), (305, 1449),  
(307, 1470), (317, 1506), (321, 1527), (330, 1563), (347, 1629), (362, 1683), (406, 1863), (412, 1896),  
(455, 1962), (466, 2028), (468, 2034), (523, 2199), (531, 2232), (558, 2301), (599, 2379), (600, 2382),  
(623, 2472), (625, 2478), (632, 2499), (656, 2559), (658, 2562),

Gene: MK4\_11 Start: 6367, Stop: 8064, Start Num: 62

Candidate Starts for MK4\_11:

(Start: 62 @6367 has 371 MA's), (109, 6439), (213, 6637), (225, 6700), (257, 6811), (265, 6823), (276,  
6862), (283, 6874), (299, 6931), (303, 6955), (308, 6985), (Start: 313 @7021 has 1 MA's), (316, 7030),  
(335, 7111), (342, 7138), (379, 7276), (395, 7342), (401, 7363), (408, 7396), (438, 7462), (464, 7537),  
(471, 7561), (472, 7564), (475, 7570), (479, 7579), (498, 7627), (511, 7666), (512, 7669), (516, 7687),  
(545, 7783), (569, 7837), (625, 7990), (636, 8020), (656, 8050), (658, 8053),

Gene: MPlant7149\_10 Start: 6575, Stop: 8263, Start Num: 62

Candidate Starts for MPlant7149\_10:

(Start: 62 @6575 has 371 MA's), (213, 6839), (215, 6863), (265, 7025), (274, 7058), (299, 7133),  
(Start: 313 @7223 has 1 MA's), (319, 7247), (327, 7274), (337, 7322), (379, 7478), (392, 7538), (472,  
7763), (477, 7772), (481, 7784), (498, 7826), (505, 7847), (515, 7874), (545, 7982), (594, 8072), (621,  
8177),

Gene: MScarn\_6 Start: 1111, Stop: 2790, Start Num: 101

Candidate Starts for MScarn\_6:

(Start: 101 @1111 has 80 MA's), (Start: 137 @1162 has 1 MA's), (147, 1183), (174, 1222), (203, 1309),  
(Start: 218 @1354 has 2 MA's), (224, 1375), (225, 1384), (246, 1456), (259, 1507), (265, 1516), (278,  
1567), (305, 1666), (307, 1687), (316, 1720), (326, 1756), (362, 1900), (372, 1936), (383, 1975), (388,  
2008), (401, 2056), (412, 2113), (436, 2146), (455, 2179), (466, 2245), (468, 2251), (493, 2317), (496,

2329), (498, 2335), (523, 2416), (556, 2512), (587, 2560), (611, 2635), (632, 2716), (656, 2776), (658, 2779),

Gene: MUWow\_2 Start: 597, Stop: 2330, Start Num: 101

Candidate Starts for MUWow\_2:

(Start: 101 @597 has 80 MA's), (Start: 150 @690 has 2 MA's), (152, 693), (189, 783), (205, 846), (241, 1014), (265, 1101), (293, 1188), (311, 1278), (319, 1311), (321, 1320), (328, 1341), (336, 1377), (385, 1512), (386, 1518), (398, 1557), (412, 1626), (456, 1692), (457, 1704), (467, 1740), (493, 1824), (511, 1881), (522, 1944), (539, 2028), (551, 2052), (569, 2094), (599, 2151), (600, 2154), (604, 2166), (621, 2235), (636, 2277), (648, 2304), (654, 2316),

Gene: MaCh\_12 Start: 8021, Stop: 9784, Start Num: 63

Candidate Starts for MaCh\_12:

(Start: 63 @8021 has 231 MA's), (Start: 80 @8042 has 5 MA's), (128, 8129), (173, 8258), (182, 8282), (203, 8345), (248, 8489), (263, 8540), (265, 8543), (299, 8654), (303, 8678), (304, 8681), (Start: 313 @8744 has 1 MA's), (316, 8753), (319, 8768), (351, 8885), (357, 8900), (368, 8960), (389, 9044), (468, 9272), (471, 9284), (494, 9332), (498, 9347), (511, 9386), (516, 9407), (527, 9446), (539, 9491), (545, 9503), (636, 9740), (654, 9767),

Gene: MaGuCo\_2 Start: 532, Stop: 2271, Start Num: 58

Candidate Starts for MaGuCo\_2:

(Start: 58 @532 has 3 MA's), (Start: 101 @592 has 80 MA's), (107, 601), (Start: 137 @655 has 1 MA's), (196, 778), (239, 916), (243, 928), (250, 952), (265, 997), (280, 1045), (305, 1138), (326, 1237), (327, 1240), (339, 1297), (366, 1399), (367, 1402), (395, 1468), (409, 1525), (472, 1714), (533, 1906), (545, 1942), (553, 1957), (609, 2122), (627, 2194), (634, 2209), (635, 2212), (656, 2257),

Gene: MaVan\_6 Start: 1989, Stop: 3689, Start Num: 101

Candidate Starts for MaVan\_6:

(Start: 101 @1989 has 80 MA's), (120, 2019), (147, 2061), (203, 2199), (219, 2247), (226, 2277), (238, 2310), (246, 2346), (250, 2361), (252, 2376), (265, 2406), (278, 2457), (305, 2556), (307, 2577), (326, 2646), (335, 2688), (343, 2718), (383, 2865), (391, 2916), (408, 2979), (412, 3003), (454, 3069), (460, 3102), (462, 3126), (463, 3129), (466, 3138), (472, 3159), (483, 3186), (498, 3231), (502, 3243), (504, 3249), (511, 3270), (519, 3309), (556, 3408), (571, 3444), (611, 3531), (632, 3612), (635, 3618), (656, 3675), (658, 3678),

Gene: Mabel\_12 Start: 8088, Stop: 9851, Start Num: 63

Candidate Starts for Mabel\_12:

(Start: 63 @8088 has 231 MA's), (Start: 80 @8109 has 5 MA's), (128, 8196), (173, 8325), (182, 8349), (203, 8412), (248, 8556), (263, 8607), (265, 8610), (299, 8721), (303, 8745), (304, 8748), (Start: 313 @8811 has 1 MA's), (316, 8820), (319, 8835), (351, 8952), (357, 8967), (368, 9027), (389, 9111), (468, 9339), (471, 9351), (494, 9399), (498, 9414), (511, 9453), (516, 9474), (527, 9513), (539, 9558), (545, 9570), (636, 9807), (654, 9834),

Gene: Mabodamaca\_2 Start: 633, Stop: 2351, Start Num: 83

Candidate Starts for Mabodamaca\_2:

(Start: 83 @633 has 13 MA's), (243, 1005), (255, 1056), (265, 1074), (305, 1224), (316, 1278), (321, 1302), (335, 1356), (453, 1719), (464, 1770), (494, 1854), (545, 2025), (553, 2040), (589, 2139), (609, 2205), (627, 2277),

Gene: MacGully\_32 Start: 14107, Stop: 15783, Start Num: 99

Candidate Starts for MacGully\_32:

(Start: 99 @14107 has 202 MA's), (Start: 134 @14164 has 1 MA's), (184, 14251), (193, 14290), (195, 14293), (197, 14302), (225, 14419), (241, 14476), (248, 14497), (252, 14521), (262, 14548), (272,

14581), (293, 14647), (302, 14695), (317, 14758), (323, 14785), (367, 14953), (371, 14965), (405, 15076), (416, 15127), (444, 15154), (448, 15157), (498, 15355), (499, 15358), (514, 15403), (531, 15469), (547, 15502), (605, 15619), (609, 15640), (621, 15688), (629, 15718), (659, 15775),

Gene: Maco6\_3 Start: 1054, Stop: 2718, Start Num: 101

Candidate Starts for Maco6\_3:

(Start: 101 @1054 has 80 MA's), (131, 1093), (143, 1117), (203, 1246), (246, 1393), (250, 1408), (265, 1453), (278, 1501), (292, 1537), (304, 1594), (307, 1618), (317, 1654), (367, 1852), (372, 1867), (383, 1906), (414, 2053), (460, 2143), (464, 2173), (502, 2278), (533, 2386), (542, 2416), (556, 2443), (559, 2455), (587, 2491), (588, 2494), (616, 2587), (629, 2644),

Gene: MadMarie\_13 Start: 6959, Stop: 8659, Start Num: 65

Candidate Starts for MadMarie\_13:

(Start: 65 @6959 has 85 MA's), (94, 7007), (175, 7142), (238, 7334), (265, 7421), (Start: 313 @7619 has 1 MA's), (335, 7709), (356, 7772), (392, 7934), (464, 8132), (471, 8156), (472, 8159), (498, 8222), (505, 8243), (516, 8282), (545, 8378), (569, 8432), (594, 8468), (636, 8615), (656, 8645), (658, 8648),

Gene: MadMen\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for MadMen\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Magnar\_11 Start: 6723, Stop: 8411, Start Num: 62

Candidate Starts for Magnar\_11:

(Start: 62 @6723 has 371 MA's), (Start: 179 @6903 has 2 MA's), (213, 6987), (219, 7023), (225, 7050), (265, 7173), (274, 7206), (299, 7281), (Start: 313 @7371 has 1 MA's), (319, 7395), (327, 7422), (337, 7470), (379, 7626), (392, 7686), (477, 7920), (498, 7974), (505, 7995), (515, 8022), (545, 8130), (594, 8220), (621, 8325),

Gene: Magnito\_10 Start: 6474, Stop: 8162, Start Num: 62

Candidate Starts for Magnito\_10:

(Start: 62 @6474 has 371 MA's), (213, 6738), (215, 6762), (265, 6924), (274, 6957), (299, 7032), (Start: 313 @7122 has 1 MA's), (319, 7146), (327, 7173), (337, 7221), (379, 7377), (392, 7437), (472, 7662), (477, 7671), (481, 7683), (498, 7725), (505, 7746), (515, 7773), (545, 7881), (594, 7971), (621, 8076),

Gene: Mahavrat\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Mahavrat\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 134 @628 has 1 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (569, 1963), (576, 1978), (593, 2005), (602, 2029), (605, 2038), (611, 2065), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Mainiac\_13 Start: 6950, Stop: 8650, Start Num: 65

Candidate Starts for Mainiac\_13:

(Start: 65 @6950 has 85 MA's), (94, 6998), (175, 7133), (238, 7325), (265, 7412), (Start: 313 @7610 has 1 MA's), (335, 7700), (356, 7763), (392, 7925), (464, 8123), (471, 8147), (472, 8150), (498, 8213), (505, 8234), (516, 8273), (545, 8369), (569, 8423), (594, 8459), (636, 8606), (656, 8636), (658, 8639),

Gene: MajorMajor\_11 Start: 6379, Stop: 8160, Start Num: 63

Candidate Starts for MajorMajor\_11:

(Start: 63 @6379 has 231 MA's), (Start: 148 @6523 has 2 MA's), (160, 6568), (173, 6610), (182, 6634), (203, 6697), (221, 6751), (263, 6892), (265, 6895), (276, 6934), (299, 7003), (Start: 313 @7093 has 1 MA's), (319, 7117), (356, 7246), (357, 7249), (421, 7522), (511, 7762), (516, 7783), (539, 7867), (545, 7879), (636, 8116), (654, 8143), (656, 8146), (658, 8149),

Gene: MalagasyRose\_7 Start: 2064, Stop: 3839, Start Num: 75

Candidate Starts for MalagasyRose\_7:

(Start: 75 @2064 has 21 MA's), (100, 2106), (182, 2277), (225, 2415), (231, 2442), (243, 2475), (246, 2484), (250, 2499), (255, 2526), (257, 2532), (259, 2535), (279, 2595), (303, 2685), (304, 2688), (319, 2757), (326, 2778), (412, 3105), (419, 3126), (446, 3171), (455, 3189), (464, 3234), (468, 3246), (472, 3261), (489, 3306), (502, 3378), (511, 3405), (516, 3426), (536, 3504), (545, 3543), (566, 3585), (594, 3633), (599, 3648), (612, 3693), (621, 3738), (623, 3744), (634, 3771),

Gene: Malec\_13 Start: 7735, Stop: 9498, Start Num: 63

Candidate Starts for Malec\_13:

(Start: 63 @7735 has 231 MA's), (128, 7843), (138, 7864), (173, 7972), (263, 8257), (265, 8260), (276, 8299), (299, 8368), (Start: 313 @8458 has 1 MA's), (319, 8482), (351, 8599), (357, 8614), (432, 8887), (464, 8974), (468, 8986), (471, 8998), (494, 9046), (498, 9061), (511, 9100), (516, 9121), (545, 9217), (636, 9454), (654, 9481), (656, 9484), (658, 9487), (659, 9490),

Gene: Malinsilva\_15 Start: 6949, Stop: 8649, Start Num: 65

Candidate Starts for Malinsilva\_15:

(Start: 65 @6949 has 85 MA's), (94, 6997), (175, 7132), (238, 7324), (265, 7411), (Start: 313 @7609 has 1 MA's), (335, 7699), (356, 7762), (392, 7924), (464, 8122), (471, 8146), (472, 8149), (498, 8212), (505, 8233), (516, 8272), (545, 8368), (569, 8422), (594, 8458), (636, 8605), (656, 8635), (658, 8638),

Gene: Maminiaina\_13 Start: 7879, Stop: 9666, Start Num: 63

Candidate Starts for Maminiaina\_13:

(Start: 63 @7879 has 231 MA's), (Start: 75 @7894 has 21 MA's), (Start: 80 @7900 has 5 MA's), (143, 8011), (173, 8110), (225, 8272), (248, 8344), (265, 8398), (276, 8437), (299, 8509), (Start: 313 @8599 has 1 MA's), (319, 8623), (351, 8740), (357, 8755), (382, 8863), (400, 8938), (423, 9034), (444, 9070), (468, 9154), (475, 9175), (494, 9214), (511, 9268), (516, 9289), (539, 9373), (545, 9385), (595, 9478), (600, 9493), (636, 9622), (654, 9649), (656, 9652),

Gene: Manatee\_12 Start: 7007, Stop: 8695, Start Num: 62

Candidate Starts for Manatee\_12:

(Start: 62 @7007 has 371 MA's), (Start: 179 @7187 has 2 MA's), (213, 7271), (219, 7307), (225, 7334), (265, 7457), (299, 7565), (Start: 313 @7655 has 1 MA's), (319, 7679), (327, 7706), (337, 7754), (379, 7910), (382, 7919), (392, 7970), (472, 8195), (477, 8204), (481, 8216), (498, 8258), (505, 8279), (515, 8306), (545, 8414), (594, 8504), (621, 8609),

Gene: Mandlovu\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Mandlovu\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845),

(233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (560, 1946), (569, 1964), (576, 1979), (593, 2006), (605, 2039), (609, 2060), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Maneekul\_6 Start: 2379, Stop: 4025, Start Num: 59

Candidate Starts for Maneekul\_6:

(Start: 59 @2379 has 85 MA's), (Start: 75 @2397 has 21 MA's), (189, 2601), (203, 2637), (255, 2817), (266, 2838), (296, 2925), (307, 2997), (Start: 313 @3021 has 1 MA's), (338, 3120), (342, 3135), (351, 3159), (353, 3165), (405, 3333), (425, 3393), (464, 3483), (470, 3504), (502, 3594), (533, 3702), (545, 3741), (556, 3762), (558, 3768), (563, 3786), (624, 3942), (660, 4020),

Gene: Mantra\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Mantra\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Manu\_14 Start: 7029, Stop: 8729, Start Num: 65

Candidate Starts for Manu\_14:

(Start: 65 @7029 has 85 MA's), (94, 7077), (Start: 137 @7149 has 1 MA's), (175, 7212), (265, 7491), (Start: 313 @7689 has 1 MA's), (335, 7779), (356, 7842), (392, 8004), (464, 8202), (471, 8226), (472, 8229), (498, 8292), (502, 8304), (505, 8313), (511, 8331), (516, 8352), (545, 8448), (569, 8502), (594, 8538), (636, 8685), (656, 8715), (658, 8718),

Gene: Mapleville\_3 Start: 845, Stop: 2329, Start Num: 205

Candidate Starts for Mapleville\_3:

(Start: 101 @596 has 80 MA's), (Start: 150 @689 has 2 MA's), (152, 692), (194, 806), (204, 842), (205, 845), (224, 905), (241, 1013), (265, 1100), (270, 1118), (293, 1187), (311, 1277), (319, 1310), (321, 1319), (328, 1340), (336, 1376), (386, 1517), (398, 1556), (457, 1703), (467, 1739), (482, 1787), (493, 1823), (511, 1880), (512, 1883), (522, 1943), (539, 2027), (569, 2093), (599, 2150), (600, 2153), (604, 2165), (621, 2234), (636, 2276), (648, 2303),

Gene: MarQuardt\_13 Start: 6958, Stop: 8658, Start Num: 65

Candidate Starts for MarQuardt\_13:

(Start: 65 @6958 has 85 MA's), (94, 7006), (175, 7141), (238, 7333), (265, 7420), (Start: 313 @7618 has 1 MA's), (335, 7708), (356, 7771), (392, 7933), (464, 8131), (471, 8155), (472, 8158), (498, 8221), (505, 8242), (516, 8281), (545, 8377), (569, 8431), (594, 8467), (636, 8614), (656, 8644), (658, 8647),

Gene: Marav\_9 Start: 3096, Stop: 4742, Start Num: 59

Candidate Starts for Marav\_9:

(Start: 59 @3096 has 85 MA's), (Start: 150 @3246 has 2 MA's), (213, 3366), (Start: 218 @3399 has 2 MA's), (246, 3492), (248, 3498), (250, 3507), (255, 3534), (266, 3555), (296, 3642), (307, 3714), (Start: 313 @3738 has 1 MA's), (338, 3837), (347, 3873), (357, 3891), (376, 3978), (396, 4014), (405, 4050), (464, 4200), (470, 4221), (502, 4311), (511, 4338), (533, 4419), (545, 4458), (556, 4479), (563, 4503), (599, 4563), (624, 4659),

Gene: Maravista\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Maravista\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (189, 737), (200, 758), (222, 845), (223, 851), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (367, 1397), (417, 1568), (435, 1580), (450, 1598), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (570, 1967), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Marcell\_11 Start: 6934, Stop: 8622, Start Num: 62

Candidate Starts for Marcell\_11:

(Start: 62 @6934 has 371 MA's), (213, 7198), (215, 7222), (265, 7384), (274, 7417), (299, 7492), (Start: 313 @7582 has 1 MA's), (319, 7606), (327, 7633), (337, 7681), (359, 7750), (379, 7837), (392, 7897), (472, 8122), (477, 8131), (481, 8143), (498, 8185), (505, 8206), (515, 8233), (545, 8341), (594, 8431), (621, 8536),

Gene: Marchesa\_11 Start: 6547, Stop: 8244, Start Num: 62

Candidate Starts for Marchesa\_11:

(Start: 62 @6547 has 371 MA's), (Start: 81 @6571 has 1 MA's), (109, 6619), (213, 6817), (225, 6880), (257, 6991), (265, 7003), (276, 7042), (283, 7054), (299, 7111), (303, 7135), (Start: 313 @7201 has 1 MA's), (316, 7210), (335, 7291), (342, 7318), (379, 7456), (401, 7543), (438, 7642), (464, 7717), (471, 7741), (472, 7744), (475, 7750), (479, 7759), (498, 7807), (516, 7867), (545, 7963), (563, 8008), (569, 8017), (625, 8170), (636, 8200), (656, 8230), (658, 8233),

Gene: Marchy\_10 Start: 6561, Stop: 8249, Start Num: 62

Candidate Starts for Marchy\_10:

(Start: 62 @6561 has 371 MA's), (213, 6825), (215, 6849), (265, 7011), (274, 7044), (299, 7119), (Start: 313 @7209 has 1 MA's), (319, 7233), (337, 7308), (379, 7464), (382, 7473), (391, 7521), (392, 7524), (472, 7749), (477, 7758), (481, 7770), (498, 7812), (505, 7833), (515, 7860), (545, 7968), (594, 8058), (621, 8163),

Gene: Marco3\_11 Start: 7206, Stop: 8894, Start Num: 62

Candidate Starts for Marco3\_11:

(Start: 62 @7206 has 371 MA's), (213, 7470), (215, 7494), (265, 7656), (274, 7689), (299, 7764), (Start: 313 @7854 has 1 MA's), (319, 7878), (327, 7905), (337, 7953), (359, 8022), (379, 8109), (392, 8169), (472, 8394), (477, 8403), (481, 8415), (498, 8457), (505, 8478), (515, 8505), (545, 8613), (594, 8703), (621, 8808),

Gene: Margaret\_7 Start: 1862, Stop: 3562, Start Num: 99

Candidate Starts for Margaret\_7:

(Start: 99 @1862 has 202 MA's), (Start: 137 @1916 has 1 MA's), (147, 1937), (157, 1964), (192, 2039), (203, 2075), (226, 2153), (248, 2228), (250, 2237), (265, 2282), (278, 2333), (305, 2432), (326, 2522), (347, 2612), (362, 2666), (383, 2741), (412, 2879), (453, 2939), (455, 2945), (466, 3011), (468, 3017), (498, 3101), (505, 3122), (523, 3182), (524, 3188), (533, 3221), (587, 3326), (623, 3455), (624, 3458), (638, 3503), (656, 3548), (658, 3551),

Gene: Marge\_12 Start: 7457, Stop: 9145, Start Num: 70

Candidate Starts for Marge\_12:

(Start: 70 @7457 has 45 MA's), (Start: 179 @7637 has 2 MA's), (213, 7721), (216, 7748), (219, 7757), (265, 7907), (274, 7940), (299, 8015), (Start: 313 @8105 has 1 MA's), (319, 8129), (327, 8156), (337,

8204), (359, 8273), (379, 8360), (392, 8420), (472, 8645), (477, 8654), (481, 8666), (498, 8708), (505, 8729), (515, 8756), (545, 8864), (594, 8954), (621, 9059),

Gene: Margo\_12 Start: 7069, Stop: 8766, Start Num: 62

Candidate Starts for Margo\_12:

(Start: 62 @7069 has 371 MA's), (Start: 81 @7093 has 1 MA's), (213, 7339), (257, 7513), (265, 7525), (276, 7564), (283, 7576), (299, 7633), (303, 7657), (Start: 313 @7723 has 1 MA's), (316, 7732), (335, 7813), (344, 7846), (379, 7978), (383, 7990), (395, 8044), (401, 8065), (408, 8098), (432, 8152), (464, 8239), (471, 8263), (472, 8266), (475, 8272), (479, 8281), (498, 8329), (511, 8368), (512, 8371), (516, 8389), (545, 8485), (569, 8539), (625, 8692), (636, 8722), (656, 8752), (658, 8755),

Gene: Marie\_13 Start: 6955, Stop: 8655, Start Num: 65

Candidate Starts for Marie\_13:

(Start: 65 @6955 has 85 MA's), (94, 7003), (175, 7138), (238, 7330), (265, 7417), (275, 7453), (Start: 313 @7615 has 1 MA's), (335, 7705), (356, 7768), (392, 7930), (464, 8128), (471, 8152), (472, 8155), (498, 8218), (505, 8239), (516, 8278), (545, 8374), (569, 8428), (594, 8464), (636, 8611), (656, 8641), (658, 8644),

Gene: Marietta\_26 Start: 10406, Stop: 12133, Start Num: 99

Candidate Starts for Marietta\_26:

(Start: 99 @10406 has 202 MA's), (Start: 134 @10469 has 1 MA's), (184, 10556), (197, 10607), (212, 10652), (216, 10682), (219, 10691), (225, 10724), (236, 10814), (241, 10832), (317, 11114), (323, 11141), (367, 11309), (371, 11321), (405, 11432), (476, 11615), (506, 11729), (511, 11744), (518, 11777), (547, 11852), (611, 11996), (621, 12038), (629, 12068), (651, 12110),

Gene: Marius\_14 Start: 7029, Stop: 8729, Start Num: 65

Candidate Starts for Marius\_14:

(Start: 65 @7029 has 85 MA's), (94, 7077), (Start: 137 @7149 has 1 MA's), (175, 7212), (265, 7491), (Start: 313 @7689 has 1 MA's), (335, 7779), (356, 7842), (392, 8004), (464, 8202), (471, 8226), (472, 8229), (498, 8292), (502, 8304), (505, 8313), (511, 8331), (516, 8352), (545, 8448), (569, 8502), (594, 8538), (636, 8685), (656, 8715), (658, 8718),

Gene: Maroc7\_10 Start: 6747, Stop: 8435, Start Num: 62

Candidate Starts for Maroc7\_10:

(Start: 62 @6747 has 371 MA's), (213, 7011), (215, 7035), (265, 7197), (274, 7230), (299, 7305), (Start: 313 @7395 has 1 MA's), (319, 7419), (327, 7446), (337, 7494), (359, 7563), (375, 7638), (379, 7650), (392, 7710), (477, 7944), (481, 7956), (498, 7998), (505, 8019), (515, 8046), (545, 8154), (594, 8244), (621, 8349),

Gene: Marsha\_11 Start: 7191, Stop: 8879, Start Num: 62

Candidate Starts for Marsha\_11:

(Start: 62 @7191 has 371 MA's), (Start: 179 @7371 has 2 MA's), (213, 7455), (219, 7491), (225, 7518), (265, 7641), (299, 7749), (Start: 313 @7839 has 1 MA's), (319, 7863), (327, 7890), (337, 7938), (379, 8094), (392, 8154), (472, 8379), (477, 8388), (481, 8400), (498, 8442), (505, 8463), (515, 8490), (545, 8598), (594, 8688), (621, 8793),

Gene: Marteena\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for Marteena\_2:

(Start: 70 @485 has 45 MA's), (145, 623), (155, 650), (201, 782), (203, 797), (228, 881), (239, 911), (243, 923), (246, 932), (254, 971), (265, 992), (285, 1052), (295, 1076), (306, 1148), (316, 1184), (325, 1220), (345, 1310), (350, 1331), (361, 1376), (362, 1382), (366, 1400), (371, 1415), (439, 1589), (456, 1616), (472, 1685), (475, 1691), (494, 1757), (497, 1769), (506, 1796), (533, 1907), (539, 1943), (545, 1955), (549, 1961), (558, 1979), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627,

2207), (632, 2222), (656, 2270), (658, 2273),

Gene: Martik\_2 Start: 573, Stop: 2210, Start Num: 99

Candidate Starts for Martik\_2:

(Start: 99 @573 has 202 MA's), (Start: 105 @582 has 2 MA's), (Start: 115 @597 has 3 MA's), (Start: 127 @618 has 1 MA's), (Start: 144 @654 has 2 MA's), (146, 657), (153, 675), (185, 720), (200, 759), (222, 846), (233, 906), (245, 930), (248, 939), (249, 942), (252, 963), (258, 984), (267, 999), (282, 1056), (296, 1095), (306, 1164), (309, 1170), (317, 1200), (318, 1203), (319, 1212), (323, 1227), (327, 1245), (338, 1296), (364, 1389), (367, 1398), (417, 1569), (435, 1581), (464, 1665), (474, 1695), (476, 1698), (478, 1701), (498, 1758), (503, 1773), (505, 1779), (506, 1782), (511, 1797), (514, 1806), (524, 1845), (532, 1875), (543, 1905), (547, 1914), (560, 1947), (576, 1980), (593, 2007), (605, 2040), (612, 2070), (617, 2091), (621, 2115), (624, 2124), (625, 2127), (650, 2184),

Gene: Marvin\_33 Start: 11120, Stop: 12862, Start Num: 101

Candidate Starts for Marvin\_33:

(Start: 101 @11120 has 80 MA's), (175, 11237), (189, 11282), (206, 11348), (208, 11363), (215, 11396), (216, 11399), (221, 11414), (226, 11438), (227, 11441), (238, 11471), (244, 11492), (246, 11510), (249, 11519), (256, 11555), (265, 11570), (278, 11615), (296, 11657), (301, 11696), (305, 11708), (307, 11729), (320, 11780), (327, 11801), (388, 12023), (412, 12128), (414, 12137), (447, 12170), (455, 12191), (456, 12194), (460, 12221), (464, 12251), (468, 12263), (472, 12278), (477, 12287), (479, 12293), (493, 12335), (495, 12344), (500, 12359), (505, 12374), (523, 12434), (531, 12473), (540, 12506), (556, 12536), (557, 12539), (583, 12623), (599, 12677), (604, 12692), (612, 12719), (624, 12773), (654, 12845), (656, 12848),

Gene: MaryBeth\_11 Start: 7169, Stop: 8857, Start Num: 62

Candidate Starts for MaryBeth\_11:

(Start: 62 @7169 has 371 MA's), (Start: 179 @7349 has 2 MA's), (213, 7433), (219, 7469), (265, 7619), (299, 7727), (Start: 313 @7817 has 1 MA's), (319, 7841), (327, 7868), (337, 7916), (359, 7985), (375, 8060), (379, 8072), (392, 8132), (472, 8357), (477, 8366), (481, 8378), (498, 8420), (505, 8441), (515, 8468), (545, 8576), (594, 8666), (621, 8771),

Gene: MarysWell\_8 Start: 6156, Stop: 7907, Start Num: 42

Candidate Starts for MarysWell\_8:

(Start: 37 @6129 has 19 MA's), (Start: 42 @6156 has 30 MA's), (73, 6225), (140, 6339), (143, 6345), (203, 6477), (225, 6552), (226, 6555), (238, 6588), (248, 6621), (284, 6729), (291, 6753), (299, 6786), (Start: 313 @6861 has 1 MA's), (324, 6906), (342, 6984), (344, 6990), (385, 7155), (395, 7188), (401, 7209), (464, 7383), (471, 7407), (472, 7410), (498, 7470), (502, 7482), (511, 7509), (516, 7530), (539, 7614), (545, 7626), (595, 7719), (636, 7863), (658, 7896), (660, 7902),

Gene: Maselop\_28 Start: 14057, Stop: 15730, Start Num: 99

Candidate Starts for Maselop\_28:

(Start: 99 @14057 has 202 MA's), (184, 14201), (197, 14252), (241, 14426), (248, 14447), (252, 14471), (262, 14498), (272, 14531), (293, 14597), (302, 14645), (317, 14708), (323, 14735), (367, 14903), (371, 14915), (405, 15026), (416, 15077), (465, 15176), (492, 15275), (494, 15287), (502, 15314), (506, 15326), (511, 15341), (531, 15416), (547, 15449), (560, 15482), (605, 15566), (609, 15587), (621, 15635), (653, 15710),

Gene: Mattes\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Mattes\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364,

1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Maureen\_2 Start: 532, Stop: 2271, Start Num: 58

Candidate Starts for Maureen\_2:

(Start: 58 @532 has 3 MA's), (Start: 101 @592 has 80 MA's), (107, 601), (Start: 137 @655 has 1 MA's), (196, 778), (239, 916), (243, 928), (250, 952), (265, 997), (280, 1045), (305, 1138), (326, 1237), (327, 1240), (339, 1297), (366, 1399), (367, 1402), (395, 1468), (409, 1525), (429, 1594), (472, 1714), (533, 1906), (545, 1942), (553, 1957), (609, 2122), (627, 2194), (634, 2209), (635, 2212), (656, 2257),

Gene: Maverick\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Maverick\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Maxo\_11 Start: 6885, Stop: 8582, Start Num: 62

Candidate Starts for Maxo\_11:

(Start: 62 @6885 has 371 MA's), (Start: 81 @6909 has 1 MA's), (Start: 148 @7032 has 2 MA's), (196, 7122), (213, 7155), (238, 7254), (263, 7338), (265, 7341), (276, 7380), (299, 7449), (303, 7473), (Start: 313 @7539 has 1 MA's), (335, 7629), (379, 7794), (401, 7881), (408, 7914), (438, 7980), (463, 8052), (464, 8055), (471, 8079), (494, 8130), (498, 8145), (511, 8184), (516, 8205), (545, 8301), (636, 8538), (656, 8568), (658, 8571),

Gene: Mayonnaise\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Mayonnaise\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Mayweather\_5 Start: 1518, Stop: 3194, Start Num: 101

Candidate Starts for Mayweather\_5:

(Start: 101 @1518 has 80 MA's), (Start: 137 @1569 has 1 MA's), (147, 1590), (177, 1635), (189, 1677), (203, 1713), (224, 1779), (243, 1842), (250, 1875), (259, 1911), (265, 1920), (266, 1923), (278, 1971), (305, 2070), (307, 2091), (317, 2127), (321, 2148), (330, 2184), (347, 2250), (362, 2304), (406, 2484), (412, 2517), (455, 2583), (456, 2586), (466, 2649), (468, 2655), (523, 2820), (531, 2853), (558, 2922), (599, 3000), (600, 3003), (623, 3093), (625, 3099), (632, 3120), (656, 3180), (658, 3183),

Gene: Mazhar510\_11 Start: 6885, Stop: 8582, Start Num: 62

Candidate Starts for Mazhar510\_11:

(Start: 62 @6885 has 371 MA's), (Start: 81 @6909 has 1 MA's), (Start: 148 @7032 has 2 MA's), (196, 7122), (213, 7155), (238, 7254), (263, 7338), (265, 7341), (276, 7380), (299, 7449), (303, 7473), (Start: 313 @7539 has 1 MA's), (335, 7629), (379, 7794), (401, 7881), (408, 7914), (438, 7980), (463, 8052), (464, 8055), (471, 8079), (494, 8130), (498, 8145), (511, 8184), (516, 8205), (545, 8301), (636, 8538), (656, 8568), (658, 8571),

Gene: McDazzle\_3 Start: 1365, Stop: 3041, Start Num: 101

Candidate Starts for McDazzle\_3:

(Start: 101 @1365 has 80 MA's), (Start: 137 @1416 has 1 MA's), (147, 1437), (177, 1482), (224, 1626), (243, 1689), (250, 1722), (259, 1758), (265, 1767), (266, 1770), (274, 1803), (278, 1818), (305, 1917), (307, 1938), (317, 1974), (321, 1995), (330, 2031), (347, 2097), (362, 2151), (406, 2331), (412, 2364), (455, 2430), (456, 2433), (466, 2496), (468, 2502), (523, 2667), (531, 2700), (558, 2769), (599, 2847), (600, 2850), (623, 2940), (625, 2946), (632, 2967), (656, 3027), (658, 3030),

Gene: McFly\_15 Start: 7533, Stop: 9287, Start Num: 63

Candidate Starts for McFly\_15:

(Start: 63 @7533 has 231 MA's), (173, 7764), (189, 7815), (203, 7851), (225, 7926), (265, 8049), (276, 8088), (299, 8157), (303, 8181), (304, 8184), (Start: 313 @8247 has 1 MA's), (319, 8271), (344, 8370), (345, 8373), (356, 8400), (357, 8403), (438, 8688), (468, 8775), (471, 8787), (498, 8850), (511, 8889), (516, 8910), (539, 8994), (545, 9006), (636, 9243), (654, 9270), (656, 9273),

Gene: McGuire\_12 Start: 7052, Stop: 8740, Start Num: 62

Candidate Starts for McGuire\_12:

(Start: 62 @7052 has 371 MA's), (Start: 179 @7232 has 2 MA's), (213, 7316), (219, 7352), (225, 7379), (265, 7502), (299, 7610), (Start: 313 @7700 has 1 MA's), (319, 7724), (327, 7751), (337, 7799), (379, 7955), (391, 8012), (392, 8015), (477, 8249), (481, 8261), (498, 8303), (505, 8324), (515, 8351), (545, 8459), (594, 8549), (621, 8654),

Gene: McSinger\_12 Start: 7132, Stop: 8820, Start Num: 62

Candidate Starts for McSinger\_12:

(Start: 62 @7132 has 371 MA's), (213, 7396), (215, 7420), (265, 7582), (274, 7615), (299, 7690), (Start: 313 @7780 has 1 MA's), (319, 7804), (327, 7831), (337, 7879), (379, 8035), (382, 8044), (391, 8092), (392, 8095), (477, 8329), (481, 8341), (498, 8383), (505, 8404), (515, 8431), (545, 8539), (594, 8629), (621, 8734),

Gene: Medindi\_2 Start: 588, Stop: 2225, Start Num: 99

Candidate Starts for Medindi\_2:

(Start: 99 @588 has 202 MA's), (109, 603), (Start: 115 @612 has 3 MA's), (118, 618), (Start: 134 @645 has 1 MA's), (Start: 144 @669 has 2 MA's), (146, 672), (185, 735), (189, 753), (200, 774), (222, 861), (223, 867), (233, 921), (241, 933), (245, 945), (248, 954), (249, 957), (252, 978), (258, 999), (267, 1014), (282, 1071), (296, 1110), (306, 1179), (309, 1185), (317, 1215), (318, 1218), (319, 1227), (323, 1242), (327, 1260), (338, 1311), (367, 1413), (417, 1584), (435, 1596), (450, 1614), (464, 1680), (474, 1710), (476, 1713), (478, 1716), (498, 1773), (503, 1788), (505, 1794), (506, 1797), (511, 1812), (514, 1821), (532, 1890), (543, 1920), (547, 1929), (560, 1962), (576, 1995), (593, 2022), (605, 2055), (611, 2082), (612, 2085), (617, 2106), (621, 2130), (624, 2139), (625, 2142), (650, 2199),

Gene: Medusa\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Medusa\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: MeeZee\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for MeeZee\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537),

(656, 8567), (658, 8570),

Gene: MegTheThird\_11 Start: 6346, Stop: 8004, Start Num: 143

Candidate Starts for MegTheThird\_11:

(Start: 63 @6214 has 231 MA's), (Start: 75 @6229 has 21 MA's), (143, 6346), (173, 6445), (175, 6451), (225, 6607), (248, 6679), (265, 6733), (276, 6772), (299, 6844), (Start: 313 @6934 has 1 MA's), (319, 6958), (356, 7087), (357, 7090), (400, 7273), (423, 7369), (454, 7429), (494, 7552), (498, 7567), (502, 7579), (516, 7627), (531, 7681), (539, 7711), (545, 7723), (595, 7816), (600, 7831), (636, 7960), (654, 7987), (656, 7990),

Gene: Melissauren88\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Melissauren88\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Melvin\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Melvin\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Mendokysei\_2 Start: 535, Stop: 2514, Start Num: 32

Candidate Starts for Mendokysei\_2:

(Start: 32 @535 has 1 MA's), (Start: 54 @631 has 7 MA's), (156, 817), (158, 829), (249, 1108), (250, 1114), (255, 1141), (265, 1159), (286, 1222), (317, 1357), (365, 1573), (368, 1582), (386, 1615), (466, 1834), (485, 1885), (487, 1888), (490, 1909), (501, 1960), (507, 1975), (523, 2047), (534, 2089), (537, 2098), (540, 2128), (545, 2137), (568, 2188), (577, 2209), (592, 2308), (595, 2314), (599, 2326), (623, 2419), (627, 2434), (628, 2437), (655, 2497),

Gene: MerCougar\_25 Start: 13111, Stop: 14841, Start Num: 99

Candidate Starts for MerCougar\_25:

(Start: 99 @13111 has 202 MA's), (Start: 102 @13117 has 27 MA's), (197, 13312), (200, 13318), (212, 13357), (216, 13387), (223, 13411), (225, 13429), (317, 13822), (323, 13849), (367, 14017), (371, 14029), (380, 14062), (405, 14140), (476, 14323), (488, 14356), (492, 14386), (506, 14437), (518, 14485), (547, 14560), (552, 14572), (567, 14608), (621, 14746), (629, 14776),

Gene: MetalQZJ\_11 Start: 7169, Stop: 8857, Start Num: 62

Candidate Starts for MetalQZJ\_11:

(Start: 62 @7169 has 371 MA's), (Start: 179 @7349 has 2 MA's), (213, 7433), (219, 7469), (265, 7619), (299, 7727), (Start: 313 @7817 has 1 MA's), (319, 7841), (327, 7868), (337, 7916), (359, 7985), (375, 8060), (379, 8072), (392, 8132), (472, 8357), (477, 8366), (481, 8378), (498, 8420), (505, 8441), (515, 8468), (545, 8576), (594, 8666), (621, 8771),

Gene: Methuselah\_13 Start: 7040, Stop: 8740, Start Num: 65

Candidate Starts for Methuselah\_13:

(Start: 65 @7040 has 85 MA's), (94, 7088), (175, 7223), (238, 7415), (265, 7502), (Start: 313 @7700 has 1 MA's), (335, 7790), (356, 7853), (392, 8015), (464, 8213), (471, 8237), (472, 8240), (498, 8303), (505, 8324), (516, 8363), (545, 8459), (569, 8513), (594, 8549), (636, 8696), (656, 8726), (658, 8729),

Gene: Micasa\_9 Start: 6157, Stop: 7908, Start Num: 42

Candidate Starts for Micasa\_9:

(Start: 37 @6130 has 19 MA's), (Start: 42 @6157 has 30 MA's), (73, 6226), (140, 6340), (143, 6346), (203, 6478), (225, 6553), (226, 6556), (238, 6589), (248, 6622), (284, 6730), (291, 6754), (299, 6787), (Start: 313 @6862 has 1 MA's), (324, 6907), (342, 6985), (344, 6991), (359, 7036), (385, 7156), (395, 7189), (401, 7210), (464, 7384), (471, 7408), (472, 7411), (498, 7471), (502, 7483), (511, 7510), (516, 7531), (539, 7615), (545, 7627), (636, 7864), (658, 7897), (660, 7903),

Gene: Michley\_11 Start: 6917, Stop: 8605, Start Num: 62

Candidate Starts for Michley\_11:

(Start: 62 @6917 has 371 MA's), (213, 7181), (215, 7205), (265, 7367), (269, 7382), (274, 7400), (Start: 313 @7565 has 1 MA's), (319, 7589), (327, 7616), (337, 7664), (392, 7880), (477, 8114), (481, 8126), (498, 8168), (505, 8189), (515, 8216), (545, 8324), (594, 8414), (621, 8519),

Gene: Microwolf\_13 Start: 6958, Stop: 8658, Start Num: 65

Candidate Starts for Microwolf\_13:

(Start: 65 @6958 has 85 MA's), (94, 7006), (175, 7141), (238, 7333), (265, 7420), (Start: 313 @7618 has 1 MA's), (335, 7708), (356, 7771), (392, 7933), (464, 8131), (471, 8155), (472, 8158), (498, 8221), (505, 8242), (516, 8281), (545, 8377), (569, 8431), (594, 8467), (636, 8614), (656, 8644), (658, 8647),

Gene: MiculUcigas\_12 Start: 7484, Stop: 9271, Start Num: 63

Candidate Starts for MiculUcigas\_12:

(35, 7400), (Start: 63 @7484 has 231 MA's), (128, 7592), (138, 7613), (173, 7721), (263, 8003), (265, 8006), (299, 8114), (Start: 313 @8204 has 1 MA's), (319, 8228), (357, 8360), (464, 8747), (511, 8873), (516, 8894), (539, 8978), (545, 8990), (636, 9227), (654, 9254), (656, 9257), (658, 9260), (659, 9263),

Gene: Midas2\_9 Start: 6156, Stop: 7907, Start Num: 42

Candidate Starts for Midas2\_9:

(Start: 37 @6129 has 19 MA's), (Start: 42 @6156 has 30 MA's), (73, 6225), (140, 6339), (143, 6345), (203, 6477), (225, 6552), (226, 6555), (238, 6588), (248, 6621), (284, 6729), (291, 6753), (299, 6786), (Start: 313 @6861 has 1 MA's), (324, 6906), (342, 6984), (344, 6990), (385, 7155), (395, 7188), (401, 7209), (464, 7383), (471, 7407), (472, 7410), (498, 7470), (502, 7482), (511, 7509), (516, 7530), (539, 7614), (545, 7626), (636, 7863), (658, 7896), (660, 7902),

Gene: Miko\_15 Start: 9110, Stop: 10891, Start Num: 63

Candidate Starts for Miko\_15:

(30, 8990), (49, 9083), (Start: 63 @9110 has 231 MA's), (143, 9242), (165, 9317), (173, 9341), (189, 9392), (263, 9623), (265, 9626), (276, 9665), (299, 9734), (Start: 313 @9824 has 1 MA's), (319, 9848), (344, 9947), (356, 9977), (357, 9980), (383, 10091), (494, 10439), (498, 10454), (502, 10466), (511, 10493), (516, 10514), (545, 10610), (636, 10847), (654, 10874), (656, 10877),

Gene: MilanaBonita\_3 Start: 1235, Stop: 2872, Start Num: 99

Candidate Starts for MilanaBonita\_3:

(Start: 99 @1235 has 202 MA's), (109, 1250), (Start: 115 @1259 has 3 MA's), (118, 1265), (Start: 134 @1292 has 1 MA's), (Start: 144 @1316 has 2 MA's), (146, 1319), (185, 1382), (189, 1400), (200, 1421), (222, 1508), (223, 1514), (233, 1568), (241, 1580), (248, 1601), (249, 1604), (252, 1625), (258, 1646), (267, 1661), (282, 1718), (296, 1757), (306, 1826), (309, 1832), (317, 1862), (318, 1865), (319, 1874), (323, 1889), (327, 1907), (338, 1958), (367, 2060), (417, 2231), (435, 2243), (450, 2261), (464, 2327), (474, 2357), (476, 2360), (478, 2363), (498, 2420), (503, 2435), (505, 2441), (506, 2444), (511,

2459), (514, 2468), (532, 2537), (543, 2567), (547, 2576), (560, 2609), (576, 2642), (593, 2669), (605, 2702), (611, 2729), (612, 2732), (617, 2753), (621, 2777), (624, 2786), (625, 2789), (650, 2846),

Gene: Milcery\_9 Start: 6166, Stop: 7944, Start Num: 37

Candidate Starts for Milcery\_9:

(Start: 37 @6166 has 19 MA's), (Start: 42 @6193 has 30 MA's), (73, 6262), (140, 6376), (143, 6382), (203, 6514), (225, 6589), (226, 6592), (238, 6625), (248, 6658), (284, 6766), (291, 6790), (299, 6823), (Start: 313 @6898 has 1 MA's), (324, 6943), (342, 7021), (344, 7027), (359, 7072), (385, 7192), (395, 7225), (401, 7246), (464, 7420), (471, 7444), (472, 7447), (498, 7507), (502, 7519), (511, 7546), (516, 7567), (539, 7651), (545, 7663), (636, 7900), (658, 7933), (660, 7939),

Gene: MilleFeuille\_8 Start: 6485, Stop: 8173, Start Num: 62

Candidate Starts for MilleFeuille\_8:

(Start: 62 @6485 has 371 MA's), (213, 6749), (215, 6773), (265, 6935), (274, 6968), (299, 7043), (Start: 313 @7133 has 1 MA's), (319, 7157), (327, 7184), (337, 7232), (359, 7301), (379, 7388), (382, 7397), (391, 7445), (392, 7448), (477, 7682), (481, 7694), (498, 7736), (505, 7757), (515, 7784), (545, 7892), (594, 7982), (621, 8087),

Gene: MilleniumForce\_3 Start: 1235, Stop: 2872, Start Num: 99

Candidate Starts for MilleniumForce\_3:

(Start: 99 @1235 has 202 MA's), (109, 1250), (Start: 115 @1259 has 3 MA's), (118, 1265), (Start: 134 @1292 has 1 MA's), (Start: 144 @1316 has 2 MA's), (146, 1319), (185, 1382), (189, 1400), (200, 1421), (222, 1508), (223, 1514), (233, 1568), (241, 1580), (245, 1592), (248, 1601), (249, 1604), (252, 1625), (258, 1646), (267, 1661), (282, 1718), (296, 1757), (306, 1826), (309, 1832), (317, 1862), (318, 1865), (319, 1874), (323, 1889), (327, 1907), (338, 1958), (367, 2060), (417, 2231), (435, 2243), (450, 2261), (464, 2327), (474, 2357), (476, 2360), (478, 2363), (498, 2420), (503, 2435), (505, 2441), (506, 2444), (511, 2459), (514, 2468), (532, 2537), (543, 2567), (547, 2576), (560, 2609), (576, 2642), (593, 2669), (605, 2702), (611, 2729), (612, 2732), (617, 2753), (621, 2777), (624, 2786), (625, 2789), (650, 2846),

Gene: Millski\_11 Start: 6887, Stop: 8584, Start Num: 65

Candidate Starts for Millski\_11:

(Start: 65 @6887 has 85 MA's), (Start: 81 @6911 has 1 MA's), (Start: 148 @7034 has 2 MA's), (196, 7124), (213, 7157), (238, 7256), (263, 7340), (265, 7343), (276, 7382), (299, 7451), (303, 7475), (Start: 313 @7541 has 1 MA's), (335, 7631), (379, 7796), (401, 7883), (408, 7916), (438, 7982), (463, 8054), (464, 8057), (471, 8081), (494, 8132), (498, 8147), (511, 8186), (516, 8207), (545, 8303), (636, 8540), (656, 8570), (658, 8573),

Gene: MinecraftSteve\_15 Start: 6808, Stop: 8505, Start Num: 63

Candidate Starts for MinecraftSteve\_15:

(Start: 63 @6808 has 231 MA's), (78, 6826), (175, 6988), (225, 7144), (248, 7213), (265, 7267), (299, 7375), (304, 7402), (Start: 313 @7465 has 1 MA's), (319, 7489), (471, 8005), (498, 8068), (512, 8110), (545, 8224), (599, 8329), (636, 8461), (654, 8488), (656, 8491), (658, 8494),

Gene: MiniMommy\_2 Start: 550, Stop: 2277, Start Num: 59

Candidate Starts for MiniMommy\_2:

(40, 490), (Start: 59 @550 has 85 MA's), (Start: 137 @661 has 1 MA's), (243, 934), (255, 985), (265, 1003), (269, 1021), (280, 1051), (305, 1144), (472, 1720), (523, 1873), (545, 1948), (553, 1963), (599, 2092), (627, 2200), (656, 2263),

Gene: MinionDave\_3 Start: 1235, Stop: 2872, Start Num: 99

Candidate Starts for MinionDave\_3:

(Start: 99 @1235 has 202 MA's), (109, 1250), (Start: 115 @1259 has 3 MA's), (118, 1265), (Start: 134 @1292 has 1 MA's), (Start: 144 @1316 has 2 MA's), (146, 1319), (185, 1382), (189, 1400), (200, 1421), (222, 1508), (223, 1514), (233, 1568), (241, 1580), (245, 1592), (248, 1601), (249, 1604), (252, 1625), (258, 1646), (267, 1661), (282, 1718), (296, 1757), (306, 1826), (309, 1832), (317, 1862), (318, 1865), (319, 1874), (323, 1889), (327, 1907), (338, 1958), (367, 2060), (417, 2231), (435, 2243), (450, 2261), (464, 2327), (474, 2357), (476, 2360), (478, 2363), (498, 2420), (503, 2435), (505, 2441), (506, 2444), (511, 2459), (514, 2468), (532, 2537), (543, 2567), (547, 2576), (560, 2609), (576, 2642), (593, 2669), (605, 2702), (611, 2729), (612, 2732), (617, 2753), (621, 2777), (624, 2786), (625, 2789), (650, 2846),

Gene: Minispark\_10 Start: 6185, Stop: 7972, Start Num: 63

Candidate Starts for Minispark\_10:

(Start: 63 @6185 has 231 MA's), (143, 6314), (173, 6413), (225, 6575), (234, 6608), (248, 6647), (265, 6701), (276, 6740), (299, 6812), (Start: 313 @6902 has 1 MA's), (319, 6926), (351, 7043), (357, 7058), (382, 7166), (400, 7241), (424, 7340), (444, 7373), (468, 7457), (475, 7478), (494, 7520), (498, 7535), (502, 7547), (511, 7574), (516, 7595), (531, 7649), (545, 7691), (594, 7781), (600, 7799), (615, 7850), (636, 7928), (654, 7955), (656, 7958),

Gene: Minnie\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Minnie\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Miramae\_11 Start: 6847, Stop: 8535, Start Num: 62

Candidate Starts for Miramae\_11:

(Start: 62 @6847 has 371 MA's), (213, 7108), (263, 7291), (265, 7294), (276, 7333), (299, 7402), (303, 7426), (308, 7456), (Start: 313 @7492 has 1 MA's), (335, 7582), (379, 7747), (389, 7792), (401, 7834), (408, 7867), (438, 7933), (464, 8008), (471, 8032), (498, 8098), (511, 8137), (516, 8158), (545, 8254), (636, 8491), (656, 8521), (658, 8524),

Gene: Miskis\_28 Start: 8458, Stop: 10206, Start Num: 102

Candidate Starts for Miskis\_28:

(Start: 102 @8458 has 27 MA's), (120, 8488), (186, 8614), (187, 8617), (235, 8803), (241, 8842), (249, 8866), (263, 8914), (271, 8941), (280, 8971), (326, 9163), (329, 9181), (370, 9343), (390, 9391), (396, 9406), (453, 9589), (455, 9595), (471, 9679), (501, 9766), (512, 9799), (541, 9913), (558, 9949), (569, 9973), (579, 9988), (640, 10162), (644, 10168),

Gene: Misomonster\_15 Start: 7040, Stop: 8740, Start Num: 65

Candidate Starts for Misomonster\_15:

(Start: 65 @7040 has 85 MA's), (94, 7088), (175, 7223), (238, 7415), (265, 7502), (Start: 313 @7700 has 1 MA's), (335, 7790), (356, 7853), (392, 8015), (464, 8213), (471, 8237), (472, 8240), (498, 8303), (505, 8324), (516, 8363), (545, 8459), (569, 8513), (594, 8549), (636, 8696), (656, 8726), (658, 8729),

Gene: MissSwiss\_2 Start: 551, Stop: 2257, Start Num: 87

Candidate Starts for MissSwiss\_2:

(Start: 87 @551 has 7 MA's), (126, 617), (247, 923), (265, 980), (280, 1028), (305, 1118), (308, 1142), (316, 1172), (344, 1292), (409, 1505), (418, 1544), (533, 1886), (545, 1922), (553, 1937), (559, 1955),

(599, 2072), (624, 2168), (627, 2180),

Gene: MissWhite\_12 Start: 6502, Stop: 8256, Start Num: 63

Candidate Starts for MissWhite\_12:

(Start: 63 @6502 has 231 MA's), (Start: 148 @6646 has 2 MA's), (173, 6733), (203, 6820), (263, 7015), (265, 7018), (276, 7057), (299, 7126), (Start: 313 @7216 has 1 MA's), (319, 7240), (344, 7339), (345, 7342), (356, 7369), (357, 7372), (435, 7657), (464, 7732), (468, 7744), (471, 7756), (494, 7804), (498, 7819), (516, 7879), (539, 7963), (545, 7975), (636, 8212), (654, 8239), (656, 8242), (658, 8245),

Gene: MisterCuddles\_2 Start: 573, Stop: 2210, Start Num: 99

Candidate Starts for MisterCuddles\_2:

(Start: 99 @573 has 202 MA's), (Start: 105 @582 has 2 MA's), (Start: 115 @597 has 3 MA's), (Start: 127 @618 has 1 MA's), (Start: 144 @654 has 2 MA's), (146, 657), (153, 675), (185, 720), (200, 759), (222, 846), (233, 906), (245, 930), (248, 939), (249, 942), (252, 963), (258, 984), (267, 999), (282, 1056), (296, 1095), (306, 1164), (309, 1170), (317, 1200), (318, 1203), (319, 1212), (323, 1227), (327, 1245), (338, 1296), (364, 1389), (367, 1398), (417, 1569), (435, 1581), (464, 1665), (474, 1695), (476, 1698), (478, 1701), (498, 1758), (503, 1773), (505, 1779), (506, 1782), (511, 1797), (514, 1806), (532, 1875), (543, 1905), (547, 1914), (560, 1947), (576, 1980), (593, 2007), (605, 2040), (612, 2070), (617, 2091), (621, 2115), (624, 2124), (625, 2127), (650, 2184),

Gene: Mkhuseli\_12 Start: 7342, Stop: 8766, Start Num: 213

Candidate Starts for Mkhuseli\_12:

(Start: 70 @7078 has 45 MA's), (Start: 179 @7258 has 2 MA's), (213, 7342), (216, 7369), (219, 7378), (265, 7528), (274, 7561), (299, 7636), (Start: 313 @7726 has 1 MA's), (319, 7750), (327, 7777), (337, 7825), (379, 7981), (392, 8041), (472, 8266), (477, 8275), (481, 8287), (498, 8329), (505, 8350), (515, 8377), (545, 8485), (594, 8575), (621, 8680),

Gene: Modragons\_2 Start: 578, Stop: 2218, Start Num: 91

Candidate Starts for Modragons\_2:

(Start: 91 @578 has 1 MA's), (Start: 99 @581 has 202 MA's), (Start: 115 @605 has 3 MA's), (Start: 134 @638 has 1 MA's), (Start: 144 @662 has 2 MA's), (146, 665), (185, 728), (200, 767), (222, 854), (223, 860), (233, 914), (245, 938), (248, 947), (249, 950), (252, 971), (258, 992), (282, 1064), (296, 1103), (306, 1172), (309, 1178), (317, 1208), (318, 1211), (319, 1220), (323, 1235), (327, 1253), (338, 1304), (364, 1397), (367, 1406), (417, 1577), (435, 1589), (464, 1673), (474, 1703), (476, 1706), (478, 1709), (498, 1766), (503, 1781), (505, 1787), (506, 1790), (511, 1805), (514, 1814), (532, 1883), (543, 1913), (547, 1922), (560, 1955), (576, 1988), (593, 2015), (605, 2048), (609, 2069), (611, 2075), (612, 2078), (617, 2099), (621, 2123), (624, 2132), (625, 2135), (650, 2192),

Gene: Molly\_12 Start: 6777, Stop: 8465, Start Num: 62

Candidate Starts for Molly\_12:

(Start: 62 @6777 has 371 MA's), (Start: 179 @6957 has 2 MA's), (213, 7041), (219, 7077), (225, 7104), (253, 7200), (265, 7227), (274, 7260), (299, 7335), (Start: 313 @7425 has 1 MA's), (319, 7449), (327, 7476), (337, 7524), (359, 7593), (379, 7680), (392, 7740), (472, 7965), (477, 7974), (481, 7986), (498, 8028), (505, 8049), (515, 8076), (545, 8184), (594, 8274), (621, 8379),

Gene: Mollymur\_13 Start: 6996, Stop: 8732, Start Num: 102

Candidate Starts for Mollymur\_13:

(Start: 102 @6996 has 27 MA's), (143, 7068), (221, 7257), (238, 7368), (249, 7404), (277, 7500), (Start: 313 @7644 has 1 MA's), (320, 7671), (329, 7719), (337, 7752), (391, 7926), (404, 7971), (455, 8124), (541, 8442), (609, 8586), (624, 8646),

Gene: Monet\_13 Start: 7974, Stop: 9662, Start Num: 70

Candidate Starts for Monet\_13:

(Start: 70 @7974 has 45 MA's), (Start: 179 @8154 has 2 MA's), (213, 8238), (216, 8265), (219, 8274), (265, 8424), (274, 8457), (299, 8532), (Start: 313 @8622 has 1 MA's), (319, 8646), (327, 8673), (337, 8721), (359, 8790), (379, 8877), (392, 8937), (472, 9162), (477, 9171), (481, 9183), (498, 9225), (505, 9246), (515, 9273), (545, 9381), (594, 9471), (621, 9576),

Gene: MoneyMay\_13 Start: 6955, Stop: 8655, Start Num: 65

Candidate Starts for MoneyMay\_13:

(Start: 65 @6955 has 85 MA's), (94, 7003), (175, 7138), (238, 7330), (265, 7417), (275, 7453), (Start: 313 @7615 has 1 MA's), (335, 7705), (356, 7768), (392, 7930), (464, 8128), (471, 8152), (472, 8155), (498, 8218), (505, 8239), (516, 8278), (545, 8374), (569, 8428), (594, 8464), (636, 8611), (656, 8641), (658, 8644),

Gene: Montavir\_12 Start: 6957, Stop: 8657, Start Num: 65

Candidate Starts for Montavir\_12:

(Start: 65 @6957 has 85 MA's), (94, 7005), (175, 7140), (238, 7332), (265, 7419), (Start: 313 @7617 has 1 MA's), (335, 7707), (356, 7770), (392, 7932), (464, 8130), (471, 8154), (472, 8157), (498, 8220), (505, 8241), (516, 8280), (545, 8376), (569, 8430), (594, 8466), (636, 8613), (656, 8643), (658, 8646),

Gene: Moonbeam\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Moonbeam\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (153, 674), (185, 719), (200, 758), (222, 845), (223, 851), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Moose\_10 Start: 7010, Stop: 8698, Start Num: 62

Candidate Starts for Moose\_10:

(Start: 62 @7010 has 371 MA's), (Start: 179 @7190 has 2 MA's), (213, 7274), (219, 7310), (265, 7460), (299, 7568), (Start: 313 @7658 has 1 MA's), (319, 7682), (337, 7757), (359, 7826), (379, 7913), (392, 7973), (477, 8207), (481, 8219), (498, 8261), (505, 8282), (515, 8309), (545, 8417), (594, 8507), (621, 8612),

Gene: Morpher26\_11 Start: 6893, Stop: 8590, Start Num: 62

Candidate Starts for Morpher26\_11:

(Start: 62 @6893 has 371 MA's), (Start: 81 @6917 has 1 MA's), (213, 7163), (263, 7346), (265, 7349), (276, 7388), (299, 7457), (303, 7481), (Start: 313 @7547 has 1 MA's), (335, 7637), (379, 7802), (401, 7889), (454, 8015), (464, 8063), (471, 8087), (498, 8153), (511, 8192), (516, 8213), (545, 8309), (635, 8543), (636, 8546), (656, 8576), (658, 8579),

Gene: Morrow\_11 Start: 6887, Stop: 8584, Start Num: 65

Candidate Starts for Morrow\_11:

(20, 6707), (23, 6725), (27, 6755), (Start: 65 @6887 has 85 MA's), (Start: 81 @6911 has 1 MA's), (Start: 148 @7034 has 2 MA's), (196, 7124), (213, 7157), (263, 7340), (265, 7343), (276, 7382), (299, 7451), (303, 7475), (Start: 313 @7541 has 1 MA's), (335, 7631), (379, 7796), (401, 7883), (408, 7916), (438, 7982), (463, 8054), (464, 8057), (471, 8081), (494, 8132), (498, 8147), (511, 8186), (516, 8207), (545, 8303), (636, 8540), (656, 8570), (658, 8573),

Gene: MortyNRick\_2 Start: 486, Stop: 2147, Start Num: 101

Candidate Starts for MortyNRick\_2:

(34, 324), (39, 357), (41, 360), (56, 411), (60, 420), (Start: 83 @453 has 13 MA's), (Start: 101 @486 has 80 MA's), (Start: 137 @537 has 1 MA's), (143, 549), (154, 576), (175, 597), (201, 666), (203, 681), (216, 720), (224, 747), (225, 756), (226, 759), (238, 792), (245, 825), (246, 828), (250, 843), (259, 879), (261, 882), (265, 888), (270, 903), (271, 906), (282, 942), (299, 996), (307, 1047), (Start: 313 @1071 has 1 MA's), (335, 1158), (352, 1218), (357, 1227), (362, 1263), (372, 1299), (384, 1341), (393, 1395), (401, 1419), (406, 1443), (430, 1503), (436, 1509), (460, 1572), (471, 1626), (479, 1644), (498, 1701), (502, 1713), (511, 1740), (533, 1821), (542, 1851), (559, 1890), (571, 1914), (596, 1950), (599, 1962), (600, 1965), (624, 2058), (625, 2061), (629, 2079), (640, 2100), (649, 2121), (658, 2136),

Gene: MosMoris\_33 Start: 10300, Stop: 12042, Start Num: 101

Candidate Starts for MosMoris\_33:

(Start: 101 @10300 has 80 MA's), (175, 10417), (189, 10462), (206, 10528), (208, 10543), (215, 10576), (216, 10579), (221, 10594), (226, 10618), (227, 10621), (238, 10651), (244, 10672), (246, 10690), (249, 10699), (256, 10735), (265, 10750), (278, 10795), (296, 10837), (301, 10876), (305, 10888), (307, 10909), (320, 10960), (327, 10981), (388, 11203), (412, 11308), (414, 11317), (447, 11350), (455, 11371), (456, 11374), (460, 11401), (464, 11431), (468, 11443), (472, 11458), (477, 11467), (479, 11473), (493, 11515), (495, 11524), (500, 11539), (505, 11554), (523, 11614), (531, 11653), (540, 11686), (556, 11716), (557, 11719), (583, 11803), (599, 11857), (604, 11872), (612, 11899), (624, 11953), (654, 12025), (656, 12028),

Gene: Moss\_2 Start: 594, Stop: 2282, Start Num: 90

Candidate Starts for Moss\_2:

(Start: 90 @594 has 17 MA's), (243, 939), (250, 963), (265, 1008), (295, 1095), (305, 1149), (312, 1188), (344, 1323), (371, 1425), (453, 1647), (464, 1698), (533, 1917), (545, 1953), (553, 1968), (624, 2193), (627, 2205), (634, 2220), (658, 2271),

Gene: MrGordo\_11 Start: 6729, Stop: 8417, Start Num: 62

Candidate Starts for MrGordo\_11:

(Start: 62 @6729 has 371 MA's), (213, 6993), (215, 7017), (265, 7179), (274, 7212), (299, 7287), (Start: 313 @7377 has 1 MA's), (319, 7401), (327, 7428), (337, 7476), (359, 7545), (379, 7632), (392, 7692), (477, 7926), (481, 7938), (498, 7980), (505, 8001), (515, 8028), (545, 8136), (594, 8226), (621, 8331),

Gene: Mryolo\_10 Start: 6759, Stop: 8447, Start Num: 62

Candidate Starts for Mryolo\_10:

(Start: 62 @6759 has 371 MA's), (Start: 179 @6939 has 2 MA's), (213, 7023), (219, 7059), (265, 7209), (299, 7317), (Start: 313 @7407 has 1 MA's), (319, 7431), (337, 7506), (342, 7524), (379, 7662), (392, 7722), (472, 7947), (477, 7956), (481, 7968), (498, 8010), (505, 8031), (515, 8058), (545, 8166), (594, 8256), (621, 8361),

Gene: Ms6\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Ms6\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: MuchMore\_15 Start: 6949, Stop: 8649, Start Num: 65

Candidate Starts for MuchMore\_15:

(Start: 65 @6949 has 85 MA's), (94, 6997), (175, 7132), (238, 7324), (265, 7411), (Start: 313 @7609 has 1 MA's), (335, 7699), (356, 7762), (392, 7924), (464, 8122), (471, 8146), (472, 8149), (498, 8212), (505, 8233), (516, 8272), (545, 8368), (569, 8422), (594, 8458), (636, 8605), (656, 8635), (658, 8638),

Gene: Muddy\_5 Start: 2008, Stop: 3672, Start Num: 101

Candidate Starts for Muddy\_5:

(Start: 101 @2008 has 80 MA's), (131, 2047), (143, 2071), (203, 2200), (246, 2347), (250, 2362), (265, 2407), (278, 2455), (292, 2491), (304, 2548), (307, 2572), (317, 2608), (354, 2746), (367, 2806), (372, 2821), (383, 2860), (414, 3007), (460, 3097), (464, 3127), (502, 3232), (533, 3340), (542, 3370), (556, 3397), (559, 3409), (587, 3445), (588, 3448), (616, 3541), (629, 3598),

Gene: Mudpuppy\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for Mudpuppy\_2:

(Start: 84 @533 has 42 MA's), (247, 905), (265, 962), (280, 1010), (305, 1100), (316, 1154), (344, 1274), (367, 1364), (418, 1526), (464, 1649), (545, 1904), (553, 1919), (599, 2054), (620, 2138), (627, 2162),

Gene: MulchSalad\_2 Start: 586, Stop: 2223, Start Num: 99

Candidate Starts for MulchSalad\_2:

(Start: 99 @586 has 202 MA's), (109, 601), (Start: 115 @610 has 3 MA's), (118, 616), (Start: 134 @643 has 1 MA's), (Start: 144 @667 has 2 MA's), (146, 670), (185, 733), (189, 751), (200, 772), (222, 859), (223, 865), (233, 919), (245, 943), (248, 952), (249, 955), (252, 976), (258, 997), (267, 1012), (282, 1069), (296, 1108), (306, 1177), (309, 1183), (317, 1213), (318, 1216), (319, 1225), (323, 1240), (327, 1258), (338, 1309), (358, 1360), (364, 1402), (367, 1411), (417, 1582), (435, 1594), (450, 1612), (464, 1678), (474, 1708), (476, 1711), (478, 1714), (498, 1771), (503, 1786), (505, 1792), (506, 1795), (511, 1810), (514, 1819), (532, 1888), (543, 1918), (547, 1927), (560, 1960), (576, 1993), (593, 2020), (605, 2053), (611, 2080), (612, 2083), (617, 2104), (621, 2128), (624, 2137), (625, 2140), (650, 2197),

Gene: Mulciber\_12 Start: 8024, Stop: 9787, Start Num: 63

Candidate Starts for Mulciber\_12:

(Start: 63 @8024 has 231 MA's), (Start: 80 @8045 has 5 MA's), (128, 8132), (173, 8261), (182, 8285), (203, 8348), (248, 8492), (263, 8543), (265, 8546), (299, 8657), (303, 8681), (304, 8684), (Start: 313 @8747 has 1 MA's), (316, 8756), (319, 8771), (351, 8888), (357, 8903), (368, 8963), (389, 9047), (438, 9188), (468, 9275), (471, 9287), (494, 9335), (498, 9350), (511, 9389), (516, 9410), (527, 9449), (539, 9494), (545, 9506), (636, 9743), (654, 9770),

Gene: Mule\_11 Start: 7045, Stop: 8733, Start Num: 62

Candidate Starts for Mule\_11:

(Start: 62 @7045 has 371 MA's), (213, 7309), (215, 7333), (265, 7495), (274, 7528), (299, 7603), (Start: 313 @7693 has 1 MA's), (319, 7717), (327, 7744), (337, 7792), (379, 7948), (392, 8008), (472, 8233), (477, 8242), (481, 8254), (498, 8296), (505, 8317), (515, 8344), (545, 8452), (594, 8542), (621, 8647),

Gene: Munch\_12 Start: 8024, Stop: 9787, Start Num: 63

Candidate Starts for Munch\_12:

(Start: 63 @8024 has 231 MA's), (Start: 80 @8045 has 5 MA's), (128, 8132), (173, 8261), (182, 8285), (203, 8348), (248, 8492), (263, 8543), (265, 8546), (299, 8657), (303, 8681), (304, 8684), (Start: 313 @8747 has 1 MA's), (316, 8756), (319, 8771), (351, 8888), (357, 8903), (368, 8963), (389, 9047), (468, 9275), (471, 9287), (494, 9335), (498, 9350), (511, 9389), (516, 9410), (527, 9449), (539, 9494), (545, 9506), (636, 9743), (654, 9770),

Gene: Mundrea\_11 Start: 6846, Stop: 8543, Start Num: 62

Candidate Starts for Mundrea\_11:

(Start: 62 @6846 has 371 MA's), (Start: 81 @6870 has 1 MA's), (213, 7116), (263, 7299), (265, 7302), (276, 7341), (299, 7410), (303, 7434), (308, 7464), (Start: 313 @7500 has 1 MA's), (335, 7590), (379, 7755), (401, 7842), (408, 7875), (438, 7941), (463, 8013), (464, 8016), (471, 8040), (498, 8106), (511, 8145), (516, 8166), (545, 8262), (576, 8331), (635, 8496), (636, 8499), (656, 8529), (658, 8532),

Gene: MunkgeeRoachy\_4 Start: 1161, Stop: 2840, Start Num: 101

Candidate Starts for MunkgeeRoachy\_4:

(Start: 101 @1161 has 80 MA's), (Start: 137 @1212 has 1 MA's), (147, 1233), (Start: 148 @1236 has 2 MA's), (177, 1278), (203, 1359), (224, 1425), (225, 1434), (246, 1506), (250, 1521), (259, 1557), (265, 1566), (278, 1617), (305, 1716), (317, 1773), (326, 1806), (362, 1950), (372, 1986), (383, 2025), (388, 2058), (401, 2106), (408, 2139), (412, 2163), (436, 2196), (455, 2229), (463, 2286), (466, 2295), (496, 2379), (523, 2466), (556, 2562), (596, 2634), (599, 2646), (632, 2766), (656, 2826), (658, 2829),

Gene: Museum\_13 Start: 7063, Stop: 8751, Start Num: 70

Candidate Starts for Museum\_13:

(Start: 70 @7063 has 45 MA's), (175, 7234), (Start: 179 @7243 has 2 MA's), (213, 7327), (216, 7354), (219, 7363), (265, 7513), (274, 7546), (299, 7621), (Start: 313 @7711 has 1 MA's), (319, 7735), (327, 7762), (337, 7810), (379, 7966), (392, 8026), (472, 8251), (477, 8260), (481, 8272), (498, 8314), (505, 8335), (515, 8362), (545, 8470), (594, 8560), (621, 8665),

Gene: Mutaforma13\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Mutaforma13\_2:

(Start: 99 @587 has 202 MA's), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 127 @632 has 1 MA's), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (650, 2198),

Gene: Mwanjiwa\_2 Start: 628, Stop: 2208, Start Num: 134

Candidate Starts for Mwanjiwa\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 134 @628 has 1 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (358, 1345), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (569, 1963), (576, 1978), (593, 2005), (605, 2038), (611, 2065), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: MyraDee\_9 Start: 5029, Stop: 6714, Start Num: 71

Candidate Starts for MyraDee\_9:

(Start: 71 @5029 has 1 MA's), (Start: 137 @5140 has 1 MA's), (143, 5152), (175, 5203), (219, 5332), (226, 5362), (263, 5476), (Start: 313 @5665 has 1 MA's), (324, 5710), (342, 5788), (345, 5797), (375, 5914), (385, 5959), (392, 5986), (395, 5992), (396, 5995), (464, 6187), (471, 6211), (472, 6214), (516, 6337), (545, 6433), (636, 6670), (656, 6700), (658, 6703),

Gene: Mysterium\_2 Start: 594, Stop: 2282, Start Num: 90

Candidate Starts for Mysterium\_2:

(Start: 90 @594 has 17 MA's), (201, 795), (243, 939), (265, 1008), (295, 1095), (305, 1149), (312, 1188), (344, 1323), (371, 1425), (453, 1647), (464, 1698), (533, 1917), (545, 1953), (553, 1968), (624,

2193), (627, 2205), (634, 2220), (658, 2271),

Gene: Myxus\_13 Start: 8109, Stop: 9896, Start Num: 63

Candidate Starts for Myxus\_13:

(Start: 63 @8109 has 231 MA's), (Start: 75 @8124 has 21 MA's), (Start: 80 @8130 has 5 MA's), (143, 8241), (173, 8340), (225, 8502), (248, 8574), (265, 8628), (276, 8667), (299, 8739), (Start: 313 @8829 has 1 MA's), (319, 8853), (351, 8970), (357, 8985), (382, 9093), (400, 9168), (408, 9204), (423, 9264), (468, 9384), (475, 9405), (494, 9444), (511, 9498), (512, 9501), (516, 9519), (531, 9573), (539, 9603), (545, 9615), (594, 9705), (600, 9723), (636, 9852), (654, 9879), (656, 9882),

Gene: NEHalo\_11 Start: 6571, Stop: 8259, Start Num: 62

Candidate Starts for NEHalo\_11:

(Start: 62 @6571 has 371 MA's), (Start: 179 @6751 has 2 MA's), (213, 6835), (219, 6871), (225, 6898), (253, 6994), (265, 7021), (274, 7054), (299, 7129), (Start: 313 @7219 has 1 MA's), (319, 7243), (337, 7318), (379, 7474), (392, 7534), (472, 7759), (477, 7768), (481, 7780), (498, 7822), (505, 7843), (515, 7870), (545, 7978), (594, 8068), (621, 8173),

Gene: NaSiaTalie\_12 Start: 7481, Stop: 9268, Start Num: 63

Candidate Starts for NaSiaTalie\_12:

(35, 7397), (Start: 63 @7481 has 231 MA's), (128, 7589), (138, 7610), (169, 7700), (173, 7718), (263, 8000), (265, 8003), (299, 8111), (Start: 313 @8201 has 1 MA's), (319, 8225), (351, 8342), (357, 8357), (464, 8744), (511, 8870), (516, 8891), (539, 8975), (545, 8987), (636, 9224), (654, 9251), (656, 9254), (658, 9257), (659, 9260),

Gene: Nabi\_6 Start: 2374, Stop: 4020, Start Num: 59

Candidate Starts for Nabi\_6:

(Start: 59 @2374 has 85 MA's), (Start: 75 @2392 has 21 MA's), (189, 2596), (203, 2632), (255, 2812), (266, 2833), (282, 2878), (296, 2920), (307, 2992), (Start: 313 @3016 has 1 MA's), (338, 3115), (342, 3130), (351, 3154), (353, 3160), (405, 3328), (464, 3478), (470, 3499), (502, 3589), (533, 3697), (545, 3736), (556, 3757), (558, 3763), (563, 3781), (624, 3937), (660, 4015),

Gene: Naca\_9 Start: 6070, Stop: 7848, Start Num: 37

Candidate Starts for Naca\_9:

(Start: 37 @6070 has 19 MA's), (Start: 42 @6097 has 30 MA's), (Start: 66 @6157 has 35 MA's), (73, 6166), (97, 6205), (140, 6280), (143, 6286), (203, 6418), (225, 6493), (226, 6496), (284, 6670), (Start: 313 @6802 has 1 MA's), (324, 6847), (342, 6925), (344, 6931), (385, 7096), (395, 7129), (401, 7150), (464, 7324), (471, 7348), (511, 7450), (516, 7471), (531, 7525), (539, 7555), (545, 7567), (569, 7621), (635, 7801), (636, 7804), (658, 7837), (660, 7843),

Gene: NadineRae\_24 Start: 9655, Stop: 11382, Start Num: 99

Candidate Starts for NadineRae\_24:

(Start: 99 @9655 has 202 MA's), (Start: 134 @9718 has 1 MA's), (184, 9805), (197, 9856), (212, 9901), (216, 9931), (219, 9940), (225, 9973), (236, 10063), (241, 10081), (317, 10363), (323, 10390), (367, 10558), (371, 10570), (405, 10681), (476, 10864), (506, 10978), (511, 10993), (518, 11026), (547, 11101), (611, 11245), (621, 11287), (629, 11317), (651, 11359),

Gene: Naiad\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Naiad\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (440, 4236), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Nairb\_3 Start: 724, Stop: 2607, Start Num: 54

Candidate Starts for Nairb\_3:

(13, 475), (Start: 54 @724 has 7 MA's), (108, 805), (114, 814), (156, 910), (158, 922), (203, 1054), (249, 1201), (250, 1207), (255, 1234), (265, 1252), (286, 1315), (317, 1450), (362, 1651), (386, 1708), (466, 1927), (485, 1978), (490, 2002), (501, 2053), (534, 2182), (540, 2221), (545, 2230), (568, 2281), (580, 2320), (595, 2407), (599, 2419), (623, 2512), (627, 2527), (628, 2530),

Gene: Naji\_15 Start: 7375, Stop: 9162, Start Num: 63

Candidate Starts for Naji\_15:

(22, 7216), (26, 7243), (Start: 63 @7375 has 231 MA's), (128, 7483), (138, 7504), (160, 7570), (173, 7612), (203, 7699), (263, 7894), (265, 7897), (299, 8005), (Start: 313 @8095 has 1 MA's), (319, 8119), (344, 8218), (356, 8248), (357, 8251), (383, 8362), (433, 8551), (494, 8710), (498, 8725), (502, 8737), (511, 8764), (516, 8785), (539, 8869), (545, 8881), (594, 8971), (636, 9118), (654, 9145), (656, 9148),

Gene: Nancinator\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Nancinator\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (440, 4236), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Nanodon\_8 Start: 2573, Stop: 4219, Start Num: 59

Candidate Starts for Nanodon\_8:

(Start: 59 @2573 has 85 MA's), (Start: 75 @2591 has 21 MA's), (189, 2795), (Start: 218 @2876 has 2 MA's), (255, 3011), (266, 3032), (282, 3077), (296, 3119), (307, 3191), (Start: 313 @3215 has 1 MA's), (338, 3314), (357, 3368), (405, 3527), (425, 3587), (470, 3698), (494, 3761), (502, 3788), (513, 3821), (533, 3896), (545, 3935), (556, 3956), (558, 3962), (563, 3980), (609, 4076), (624, 4136),

Gene: NatB6\_24 Start: 12178, Stop: 13905, Start Num: 96

Candidate Starts for NatB6\_24:

(19, 11944), (43, 12073), (Start: 96 @12178 has 12 MA's), (184, 12328), (197, 12379), (200, 12385), (212, 12424), (216, 12454), (223, 12478), (225, 12496), (229, 12523), (236, 12586), (241, 12604), (317, 12889), (323, 12916), (343, 13000), (367, 13084), (371, 13096), (380, 13129), (405, 13207), (444, 13285), (464, 13357), (476, 13390), (492, 13453), (498, 13480), (506, 13504), (514, 13528), (547, 13627), (567, 13675), (621, 13813), (629, 13843), (659, 13897),

Gene: Natosaleda\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Natosaleda\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (440, 4236), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: NearlyHeadless\_9 Start: 5706, Stop: 7460, Start Num: 42

Candidate Starts for NearlyHeadless\_9:

(Start: 42 @5706 has 30 MA's), (Start: 54 @5748 has 7 MA's), (Start: 81 @5787 has 1 MA's), (122, 5856), (143, 5895), (225, 6102), (291, 6303), (Start: 313 @6411 has 1 MA's), (344, 6540), (385, 6705), (395, 6738), (441, 6858), (464, 6933), (502, 7035), (505, 7044), (511, 7062), (516, 7083), (531, 7137), (545, 7179), (599, 7284), (624, 7383), (636, 7416), (658, 7449), (660, 7455),

Gene: Nebs\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Nebs\_11:

(20, 6707), (23, 6725), (27, 6755), (Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Nebulosus\_14 Start: 6686, Stop: 8383, Start Num: 63

Candidate Starts for Nebulosus\_14:

(Start: 63 @6686 has 231 MA's), (78, 6704), (175, 6866), (225, 7022), (248, 7091), (265, 7145), (299, 7253), (304, 7280), (Start: 313 @7343 has 1 MA's), (319, 7367), (471, 7883), (498, 7946), (512, 7988), (545, 8102), (599, 8207), (636, 8339), (654, 8366), (656, 8369), (658, 8372),

Gene: Nedarya\_13 Start: 7279, Stop: 8973, Start Num: 63

Candidate Starts for Nedarya\_13:

(Start: 63 @7279 has 231 MA's), (78, 7294), (175, 7456), (248, 7681), (265, 7735), (299, 7843), (Start: 313 @7933 has 1 MA's), (319, 7957), (351, 8074), (382, 8197), (432, 8362), (464, 8449), (471, 8473), (498, 8536), (502, 8548), (512, 8578), (545, 8692), (600, 8800), (636, 8929), (654, 8956), (656, 8959), (658, 8962),

Gene: Neeharika16\_15 Start: 7523, Stop: 9277, Start Num: 63

Candidate Starts for Neeharika16\_15:

(Start: 63 @7523 has 231 MA's), (173, 7754), (189, 7805), (203, 7841), (225, 7916), (265, 8039), (276, 8078), (299, 8147), (303, 8171), (304, 8174), (Start: 313 @8237 has 1 MA's), (319, 8261), (356, 8390), (357, 8393), (383, 8504), (432, 8666), (464, 8753), (468, 8765), (471, 8777), (494, 8825), (498, 8840), (511, 8879), (516, 8900), (539, 8984), (545, 8996), (636, 9233), (654, 9260), (656, 9263),

Gene: Nemo27\_11 Start: 6907, Stop: 8580, Start Num: 81

Candidate Starts for Nemo27\_11:

(Start: 62 @6883 has 371 MA's), (Start: 81 @6907 has 1 MA's), (Start: 148 @7030 has 2 MA's), (196, 7120), (213, 7153), (238, 7252), (263, 7336), (265, 7339), (276, 7378), (299, 7447), (303, 7471), (Start: 313 @7537 has 1 MA's), (335, 7627), (379, 7792), (401, 7879), (408, 7912), (438, 7978), (463, 8050), (464, 8053), (471, 8077), (494, 8128), (498, 8143), (511, 8182), (516, 8203), (545, 8299), (636, 8536), (656, 8566), (658, 8569),

Gene: Nerdos\_6 Start: 2402, Stop: 4048, Start Num: 59

Candidate Starts for Nerdos\_6:

(Start: 59 @2402 has 85 MA's), (Start: 75 @2420 has 21 MA's), (189, 2624), (Start: 218 @2705 has 2 MA's), (255, 2840), (266, 2861), (296, 2948), (307, 3020), (Start: 313 @3044 has 1 MA's), (338, 3143), (357, 3197), (389, 3296), (405, 3356), (468, 3518), (470, 3527), (502, 3617), (511, 3644), (532, 3722), (533, 3725), (545, 3764), (556, 3785), (558, 3791), (563, 3809), (609, 3905), (624, 3965),

Gene: Nergal\_5 Start: 1844, Stop: 3613, Start Num: 77

Candidate Starts for Nergal\_5:

(Start: 77 @1844 has 1 MA's), (93, 1868), (100, 1877), (141, 1937), (175, 2033), (182, 2051), (203, 2114), (Start: 218 @2159 has 2 MA's), (225, 2189), (227, 2195), (243, 2249), (255, 2300), (257, 2306), (259, 2309), (304, 2462), (317, 2519), (326, 2552), (367, 2735), (373, 2753), (410, 2861), (454, 2960), (455, 2963), (464, 3008), (472, 3035), (501, 3149), (502, 3152), (511, 3179), (516, 3200), (520, 3227), (545, 3317), (566, 3359), (585, 3383), (594, 3407), (610, 3461), (621, 3512), (623, 3518), (636, 3551),

Gene: Nerujay\_12 Start: 7406, Stop: 9094, Start Num: 62

Candidate Starts for Nerujay\_12:

(Start: 62 @7406 has 371 MA's), (213, 7670), (215, 7694), (265, 7856), (274, 7889), (299, 7964), (Start: 313 @8054 has 1 MA's), (319, 8078), (327, 8105), (337, 8153), (359, 8222), (375, 8297), (379,

8309), (392, 8369), (477, 8603), (481, 8615), (498, 8657), (505, 8678), (515, 8705), (545, 8813), (594, 8903), (621, 9008),

Gene: Nette\_3 Start: 631, Stop: 2514, Start Num: 54

Candidate Starts for Nette\_3:

(Start: 32 @535 has 1 MA's), (Start: 54 @631 has 7 MA's), (156, 817), (158, 829), (249, 1108), (250, 1114), (255, 1141), (265, 1159), (286, 1222), (317, 1357), (365, 1573), (368, 1582), (386, 1615), (466, 1834), (485, 1885), (487, 1888), (490, 1909), (501, 1960), (507, 1975), (523, 2047), (534, 2089), (537, 2098), (540, 2128), (545, 2137), (568, 2188), (577, 2209), (592, 2308), (595, 2314), (599, 2326), (623, 2419), (627, 2434), (628, 2437), (655, 2497),

Gene: NewHope4\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for NewHope4\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 134 @628 has 1 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (267, 997), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (569, 1963), (576, 1978), (593, 2005), (605, 2038), (611, 2065), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Newwala\_15 Start: 7523, Stop: 9277, Start Num: 63

Candidate Starts for Newwala\_15:

(Start: 63 @7523 has 231 MA's), (173, 7754), (189, 7805), (203, 7841), (225, 7916), (265, 8039), (276, 8078), (299, 8147), (303, 8171), (304, 8174), (Start: 313 @8237 has 1 MA's), (319, 8261), (356, 8390), (357, 8393), (383, 8504), (432, 8666), (464, 8753), (468, 8765), (471, 8777), (494, 8825), (498, 8840), (511, 8879), (516, 8900), (539, 8984), (545, 8996), (636, 9233), (654, 9260), (656, 9263),

Gene: Nhonho\_11 Start: 6855, Stop: 8543, Start Num: 62

Candidate Starts for Nhonho\_11:

(Start: 62 @6855 has 371 MA's), (Start: 179 @7035 has 2 MA's), (213, 7119), (219, 7155), (225, 7182), (265, 7305), (299, 7413), (Start: 313 @7503 has 1 MA's), (319, 7527), (327, 7554), (337, 7602), (379, 7758), (392, 7818), (472, 8043), (477, 8052), (481, 8064), (498, 8106), (505, 8127), (515, 8154), (545, 8262), (594, 8352), (621, 8457),

Gene: Nibbles\_6 Start: 1989, Stop: 3689, Start Num: 101

Candidate Starts for Nibbles\_6:

(Start: 101 @1989 has 80 MA's), (120, 2019), (147, 2061), (203, 2199), (219, 2247), (226, 2277), (238, 2310), (246, 2346), (250, 2361), (252, 2376), (265, 2406), (278, 2457), (305, 2556), (307, 2577), (326, 2646), (335, 2688), (343, 2718), (383, 2865), (391, 2916), (408, 2979), (412, 3003), (454, 3069), (460, 3102), (462, 3126), (463, 3129), (466, 3138), (472, 3159), (483, 3186), (498, 3231), (502, 3243), (504, 3249), (511, 3270), (519, 3309), (556, 3408), (571, 3444), (611, 3531), (632, 3612), (635, 3618), (656, 3675), (658, 3678),

Gene: NicoleTera\_16 Start: 9187, Stop: 10974, Start Num: 63

Candidate Starts for NicoleTera\_16:

(Start: 63 @9187 has 231 MA's), (128, 9295), (138, 9316), (160, 9382), (173, 9424), (182, 9448), (203, 9511), (263, 9706), (265, 9709), (276, 9748), (299, 9817), (Start: 313 @9907 has 1 MA's), (319, 9931), (351, 10048), (357, 10063), (464, 10450), (498, 10537), (502, 10549), (512, 10579), (516, 10597), (545, 10693), (636, 10930), (654, 10957), (656, 10960), (658, 10963), (659, 10966),

Gene: Nimbo\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Nimbo\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Nina\_4 Start: 1113, Stop: 2792, Start Num: 101

Candidate Starts for Nina\_4:

(Start: 101 @1113 has 80 MA's), (Start: 137 @1164 has 1 MA's), (147, 1185), (177, 1230), (203, 1311), (224, 1377), (225, 1386), (246, 1458), (250, 1473), (259, 1509), (265, 1518), (278, 1569), (305, 1668), (316, 1722), (326, 1758), (362, 1902), (372, 1938), (383, 1977), (388, 2010), (401, 2058), (408, 2091), (412, 2115), (436, 2148), (455, 2181), (463, 2238), (466, 2247), (496, 2331), (523, 2418), (556, 2514), (596, 2586), (599, 2598), (632, 2718), (656, 2778), (658, 2781),

Gene: Niobe\_2 Start: 534, Stop: 2240, Start Num: 84

Candidate Starts for Niobe\_2:

(Start: 84 @534 has 42 MA's), (Start: 137 @621 has 1 MA's), (247, 906), (265, 963), (270, 984), (280, 1011), (305, 1101), (316, 1155), (326, 1200), (344, 1275), (367, 1365), (409, 1488), (418, 1527), (464, 1650), (523, 1830), (531, 1863), (545, 1905), (553, 1920), (599, 2055), (609, 2091), (624, 2151), (627, 2163),

Gene: Nishikigoi\_6 Start: 2173, Stop: 3822, Start Num: 59

Candidate Starts for Nishikigoi\_6:

(Start: 59 @2173 has 85 MA's), (131, 2290), (182, 2371), (189, 2398), (213, 2446), (Start: 218 @2479 has 2 MA's), (224, 2500), (250, 2587), (255, 2614), (266, 2635), (282, 2680), (296, 2722), (307, 2794), (Start: 313 @2818 has 1 MA's), (338, 2917), (347, 2953), (357, 2971), (395, 3091), (396, 3094), (405, 3130), (441, 3211), (470, 3301), (475, 3313), (494, 3364), (511, 3418), (545, 3538), (556, 3559), (562, 3580), (563, 3583), (599, 3643), (624, 3739), (660, 3817),

Gene: Nitro\_2 Start: 535, Stop: 2241, Start Num: 84

Candidate Starts for Nitro\_2:

(Start: 84 @535 has 42 MA's), (126, 601), (Start: 137 @622 has 1 MA's), (247, 907), (265, 964), (280, 1012), (305, 1102), (316, 1156), (326, 1201), (344, 1276), (367, 1366), (418, 1528), (464, 1651), (523, 1831), (545, 1906), (553, 1921), (599, 2056), (624, 2152), (627, 2164),

Gene: Nitzel\_3 Start: 1235, Stop: 2872, Start Num: 99

Candidate Starts for Nitzel\_3:

(Start: 91 @1232 has 1 MA's), (Start: 99 @1235 has 202 MA's), (Start: 115 @1259 has 3 MA's), (118, 1265), (Start: 127 @1280 has 1 MA's), (Start: 134 @1292 has 1 MA's), (Start: 144 @1316 has 2 MA's), (146, 1319), (185, 1382), (189, 1400), (200, 1421), (222, 1508), (223, 1514), (233, 1568), (241, 1580), (245, 1592), (248, 1601), (249, 1604), (252, 1625), (258, 1646), (267, 1661), (282, 1718), (296, 1757), (306, 1826), (309, 1832), (317, 1862), (318, 1865), (319, 1874), (323, 1889), (327, 1907), (338, 1958), (367, 2060), (417, 2231), (435, 2243), (450, 2261), (464, 2327), (474, 2357), (476, 2360), (478, 2363), (498, 2420), (503, 2435), (505, 2441), (506, 2444), (511, 2459), (514, 2468), (532, 2537), (543, 2567), (547, 2576), (560, 2609), (576, 2642), (593, 2669), (605, 2702), (611, 2729), (612, 2732), (617, 2753), (621, 2777), (624, 2786), (625, 2789), (650, 2846),

Gene: Nivrat\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Nivrat\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (153, 674), (185, 719), (200, 758), (222, 845), (223, 851), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (450, 1598), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Niza\_13 Start: 8083, Stop: 9771, Start Num: 70

Candidate Starts for Niza\_13:

(Start: 70 @8083 has 45 MA's), (175, 8254), (Start: 179 @8263 has 2 MA's), (213, 8347), (216, 8374), (219, 8383), (265, 8533), (274, 8566), (299, 8641), (Start: 313 @8731 has 1 MA's), (319, 8755), (327, 8782), (337, 8830), (359, 8899), (379, 8986), (382, 8995), (392, 9046), (477, 9280), (481, 9292), (498, 9334), (505, 9355), (515, 9382), (545, 9490), (594, 9580), (621, 9685),

Gene: NoShow\_2 Start: 679, Stop: 2346, Start Num: 101

Candidate Starts for NoShow\_2:

(Start: 101 @679 has 80 MA's), (113, 697), (143, 742), (189, 835), (203, 871), (250, 1033), (265, 1078), (270, 1099), (278, 1126), (307, 1243), (317, 1279), (335, 1354), (414, 1678), (447, 1714), (455, 1738), (469, 1813), (496, 1885), (506, 1915), (511, 1930), (518, 1963), (533, 2011), (542, 2041), (556, 2068), (565, 2095), (587, 2116), (616, 2218), (625, 2257),

Gene: Nodigi\_5 Start: 1094, Stop: 2791, Start Num: 99

Candidate Starts for Nodigi\_5:

(Start: 99 @1094 has 202 MA's), (Start: 137 @1148 has 1 MA's), (147, 1169), (157, 1196), (203, 1307), (226, 1385), (248, 1460), (250, 1469), (265, 1514), (266, 1517), (278, 1565), (283, 1577), (305, 1664), (326, 1754), (347, 1844), (362, 1898), (412, 2111), (417, 2126), (428, 2135), (455, 2177), (466, 2243), (468, 2249), (483, 2291), (495, 2324), (498, 2333), (533, 2453), (556, 2510), (562, 2531), (587, 2558), (607, 2618), (623, 2687), (624, 2690), (638, 2735), (656, 2777), (658, 2780),

Gene: Noella\_12 Start: 7044, Stop: 8741, Start Num: 62

Candidate Starts for Noella\_12:

(Start: 62 @7044 has 371 MA's), (Start: 81 @7068 has 1 MA's), (213, 7314), (257, 7488), (265, 7500), (276, 7539), (283, 7551), (299, 7608), (303, 7632), (Start: 313 @7698 has 1 MA's), (316, 7707), (335, 7788), (344, 7821), (379, 7953), (383, 7965), (395, 8019), (401, 8040), (408, 8073), (432, 8127), (464, 8214), (471, 8238), (472, 8241), (475, 8247), (479, 8256), (498, 8304), (511, 8343), (512, 8346), (516, 8364), (545, 8460), (569, 8514), (625, 8667), (636, 8697), (656, 8727), (658, 8730),

Gene: Noelle\_11 Start: 6950, Stop: 8647, Start Num: 62

Candidate Starts for Noelle\_11:

(Start: 62 @6950 has 371 MA's), (Start: 81 @6974 has 1 MA's), (122, 7046), (213, 7220), (263, 7403), (265, 7406), (276, 7445), (299, 7514), (303, 7538), (Start: 313 @7604 has 1 MA's), (335, 7694), (379, 7859), (389, 7904), (401, 7946), (408, 7979), (454, 8072), (463, 8117), (464, 8120), (471, 8144), (472, 8147), (498, 8210), (511, 8249), (516, 8270), (545, 8366), (636, 8603), (656, 8633), (658, 8636),

Gene: Norbert\_11 Start: 7044, Stop: 8741, Start Num: 62

Candidate Starts for Norbert\_11:

(Start: 62 @7044 has 371 MA's), (Start: 81 @7068 has 1 MA's), (213, 7314), (257, 7488), (265, 7500), (276, 7539), (283, 7551), (299, 7608), (303, 7632), (Start: 313 @7698 has 1 MA's), (316, 7707), (335, 7788), (344, 7821), (379, 7953), (383, 7965), (395, 8019), (401, 8040), (408, 8073), (432, 8127), (464, 8214), (471, 8238), (472, 8241), (475, 8247), (479, 8256), (498, 8304), (511, 8343), (512, 8346), (516, 8364), (545, 8460), (569, 8514), (625, 8667), (636, 8697), (656, 8727), (658, 8730),

Gene: NormanBulbieJr\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for NormanBulbieJr\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: NorthStar\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for NorthStar\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Norvs\_31 Start: 8685, Stop: 10433, Start Num: 102

Candidate Starts for Norvs\_31:

(Start: 102 @8685 has 27 MA's), (120, 8715), (187, 8844), (235, 9030), (241, 9069), (249, 9093), (263, 9141), (271, 9168), (280, 9198), (326, 9390), (329, 9408), (370, 9570), (390, 9618), (396, 9633), (453, 9816), (455, 9822), (471, 9906), (501, 9993), (512, 10026), (541, 10140), (558, 10176), (569, 10200), (579, 10215), (640, 10389), (644, 10395),

Gene: Norz\_13 Start: 7718, Stop: 9406, Start Num: 62

Candidate Starts for Norz\_13:

(Start: 62 @7718 has 371 MA's), (213, 7982), (215, 8006), (265, 8168), (274, 8201), (299, 8276), (Start: 313 @8366 has 1 MA's), (319, 8390), (337, 8465), (379, 8621), (392, 8681), (477, 8915), (481, 8927), (498, 8969), (505, 8990), (515, 9017), (545, 9125), (594, 9215), (621, 9320),

Gene: NosilaM\_27 Start: 12802, Stop: 14526, Start Num: 102

Candidate Starts for NosilaM\_27:

(Start: 99 @12796 has 202 MA's), (Start: 102 @12802 has 27 MA's), (184, 12946), (197, 12997), (200, 13003), (207, 13030), (212, 13042), (216, 13072), (223, 13096), (225, 13114), (317, 13507), (323, 13534), (367, 13702), (371, 13714), (380, 13747), (405, 13825), (488, 14041), (492, 14071), (506, 14122), (518, 14170), (547, 14245), (552, 14257), (567, 14293), (621, 14431), (629, 14461),

Gene: NotAPhaseMom\_11 Start: 6888, Stop: 8585, Start Num: 62

Candidate Starts for NotAPhaseMom\_11:

(Start: 62 @6888 has 371 MA's), (Start: 81 @6912 has 1 MA's), (Start: 148 @7035 has 2 MA's), (196, 7125), (213, 7158), (238, 7257), (263, 7341), (265, 7344), (276, 7383), (299, 7452), (303, 7476), (Start: 313 @7542 has 1 MA's), (335, 7632), (379, 7797), (401, 7884), (408, 7917), (438, 7983), (463, 8055), (464, 8058), (471, 8082), (494, 8133), (498, 8148), (511, 8187), (516, 8208), (545, 8304), (636, 8541), (656, 8571), (658, 8574),

Gene: NothingSpecial\_14 Start: 9458, Stop: 11239, Start Num: 63

Candidate Starts for NothingSpecial\_14:

(Start: 63 @9458 has 231 MA's), (143, 9590), (173, 9689), (263, 9971), (265, 9974), (276, 10013), (299, 10082), (Start: 313 @10172 has 1 MA's), (319, 10196), (344, 10295), (357, 10328), (433, 10628), (464, 10715), (475, 10748), (502, 10814), (516, 10862), (539, 10946), (545, 10958), (636, 11195),

(654, 11222), (656, 11225),

Gene: NovumRegina\_24 Start: 12509, Stop: 14236, Start Num: 96

Candidate Starts for NovumRegina\_24:

(19, 12275), (43, 12404), (Start: 96 @12509 has 12 MA's), (184, 12659), (197, 12710), (200, 12716), (212, 12755), (216, 12785), (223, 12809), (225, 12827), (229, 12854), (236, 12917), (241, 12935), (317, 13220), (323, 13247), (343, 13331), (367, 13415), (371, 13427), (380, 13460), (405, 13538), (444, 13616), (464, 13688), (476, 13721), (492, 13784), (498, 13811), (506, 13835), (514, 13859), (547, 13958), (567, 14006), (621, 14144), (629, 14174), (659, 14228),

Gene: Noxious\_12 Start: 7751, Stop: 9439, Start Num: 62

Candidate Starts for Noxious\_12:

(Start: 62 @7751 has 371 MA's), (Start: 179 @7931 has 2 MA's), (213, 8015), (219, 8051), (225, 8078), (265, 8201), (274, 8234), (299, 8309), (Start: 313 @8399 has 1 MA's), (319, 8423), (327, 8450), (337, 8498), (359, 8567), (375, 8642), (379, 8654), (382, 8663), (392, 8714), (472, 8939), (477, 8948), (481, 8960), (498, 9002), (505, 9023), (515, 9050), (545, 9158), (594, 9248), (621, 9353),

Gene: Nyilah\_2 Start: 689, Stop: 2329, Start Num: 150

Candidate Starts for Nyilah\_2:

(Start: 101 @596 has 80 MA's), (Start: 150 @689 has 2 MA's), (152, 692), (189, 782), (194, 806), (204, 842), (205, 845), (241, 1013), (245, 1037), (265, 1100), (293, 1187), (311, 1277), (319, 1310), (321, 1319), (328, 1340), (336, 1376), (385, 1511), (386, 1517), (389, 1523), (398, 1556), (412, 1625), (467, 1739), (511, 1880), (512, 1883), (522, 1943), (529, 1979), (539, 2027), (555, 2060), (569, 2093), (621, 2234), (636, 2276), (648, 2303),

Gene: Nyxis\_11 Start: 6830, Stop: 8527, Start Num: 62

Candidate Starts for Nyxis\_11:

(17, 6644), (20, 6653), (23, 6671), (27, 6701), (Start: 62 @6830 has 371 MA's), (Start: 81 @6854 has 1 MA's), (Start: 148 @6977 has 2 MA's), (196, 7067), (213, 7100), (238, 7199), (263, 7283), (265, 7286), (276, 7325), (299, 7394), (303, 7418), (Start: 313 @7484 has 1 MA's), (335, 7574), (379, 7739), (401, 7826), (408, 7859), (438, 7925), (463, 7997), (464, 8000), (471, 8024), (494, 8075), (498, 8090), (511, 8129), (516, 8150), (545, 8246), (636, 8483), (656, 8513), (658, 8516),

Gene: OKCentral2016\_11 Start: 6407, Stop: 8080, Start Num: 62

Candidate Starts for OKCentral2016\_11:

(Start: 62 @6407 has 371 MA's), (Start: 148 @6536 has 2 MA's), (185, 6602), (213, 6668), (222, 6713), (238, 6767), (250, 6809), (265, 6854), (276, 6893), (296, 6941), (299, 6962), (303, 6986), (Start: 313 @7037 has 1 MA's), (344, 7160), (362, 7229), (384, 7307), (397, 7367), (408, 7412), (438, 7478), (463, 7550), (464, 7553), (471, 7577), (498, 7643), (511, 7682), (512, 7685), (516, 7703), (545, 7799), (576, 7868), (636, 8036), (656, 8066), (658, 8069),

Gene: OKaNui\_11 Start: 6649, Stop: 8346, Start Num: 62

Candidate Starts for OKaNui\_11:

(Start: 62 @6649 has 371 MA's), (Start: 81 @6673 has 1 MA's), (Start: 148 @6796 has 2 MA's), (196, 6886), (213, 6919), (238, 7018), (263, 7102), (265, 7105), (276, 7144), (299, 7213), (303, 7237), (Start: 313 @7303 has 1 MA's), (335, 7393), (379, 7558), (401, 7645), (408, 7678), (438, 7744), (463, 7816), (464, 7819), (471, 7843), (498, 7909), (511, 7948), (516, 7969), (545, 8065), (635, 8299), (636, 8302), (656, 8332), (658, 8335),

Gene: Obama12\_11 Start: 6863, Stop: 8560, Start Num: 62

Candidate Starts for Obama12\_11:

(Start: 62 @6863 has 371 MA's), (Start: 81 @6887 has 1 MA's), (Start: 148 @7010 has 2 MA's), (196, 7100), (213, 7133), (263, 7316), (265, 7319), (276, 7358), (299, 7427), (303, 7451), (Start: 313 @7517

has 1 MA's), (335, 7607), (379, 7772), (401, 7859), (408, 7892), (438, 7958), (463, 8030), (471, 8057), (494, 8108), (498, 8123), (511, 8162), (516, 8183), (545, 8279), (636, 8516), (656, 8546), (658, 8549),

Gene: ObiToo\_2 Start: 546, Stop: 2252, Start Num: 84

Candidate Starts for ObiToo\_2:

(8, 243), (Start: 84 @546 has 42 MA's), (126, 612), (247, 918), (265, 975), (280, 1023), (305, 1113), (316, 1167), (326, 1212), (344, 1287), (418, 1539), (523, 1842), (533, 1881), (545, 1917), (553, 1932), (599, 2067), (624, 2163), (627, 2175),

Gene: Ochi17\_2 Start: 581, Stop: 2218, Start Num: 99

Candidate Starts for Ochi17\_2:

(Start: 91 @578 has 1 MA's), (Start: 99 @581 has 202 MA's), (Start: 115 @605 has 3 MA's), (Start: 134 @638 has 1 MA's), (Start: 144 @662 has 2 MA's), (146, 665), (185, 728), (200, 767), (222, 854), (223, 860), (233, 914), (245, 938), (248, 947), (249, 950), (252, 971), (258, 992), (282, 1064), (296, 1103), (306, 1172), (309, 1178), (317, 1208), (318, 1211), (319, 1220), (323, 1235), (327, 1253), (338, 1304), (364, 1397), (367, 1406), (417, 1577), (435, 1589), (464, 1673), (474, 1703), (476, 1706), (478, 1709), (498, 1766), (503, 1781), (505, 1787), (506, 1790), (511, 1805), (514, 1814), (532, 1883), (543, 1913), (547, 1922), (560, 1955), (576, 1988), (593, 2015), (605, 2048), (609, 2069), (611, 2075), (612, 2078), (617, 2099), (621, 2123), (624, 2132), (625, 2135), (650, 2192),

Gene: Odin\_11 Start: 6300, Stop: 8084, Start Num: 63

Candidate Starts for Odin\_11:

(Start: 63 @6300 has 231 MA's), (173, 6531), (203, 6618), (250, 6771), (263, 6813), (265, 6816), (299, 6927), (303, 6951), (304, 6954), (Start: 313 @7017 has 1 MA's), (319, 7041), (357, 7173), (382, 7281), (511, 7686), (516, 7707), (539, 7791), (545, 7803), (600, 7911), (636, 8040), (654, 8067), (656, 8070),

Gene: OfUltron\_2 Start: 605, Stop: 2218, Start Num: 115

Candidate Starts for OfUltron\_2:

(Start: 91 @578 has 1 MA's), (Start: 99 @581 has 202 MA's), (Start: 115 @605 has 3 MA's), (Start: 134 @638 has 1 MA's), (Start: 144 @662 has 2 MA's), (146, 665), (185, 728), (200, 767), (222, 854), (223, 860), (233, 914), (245, 938), (248, 947), (249, 950), (252, 971), (258, 992), (282, 1064), (296, 1103), (306, 1172), (309, 1178), (317, 1208), (318, 1211), (319, 1220), (323, 1235), (327, 1253), (338, 1304), (364, 1397), (367, 1406), (417, 1577), (435, 1589), (464, 1673), (474, 1703), (476, 1706), (478, 1709), (498, 1766), (503, 1781), (505, 1787), (506, 1790), (511, 1805), (514, 1814), (532, 1883), (543, 1913), (547, 1922), (560, 1955), (576, 1988), (593, 2015), (605, 2048), (609, 2069), (611, 2075), (612, 2078), (617, 2099), (621, 2123), (624, 2132), (625, 2135), (650, 2192),

Gene: Ohfah\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Ohfah\_11:

(20, 6707), (23, 6725), (27, 6755), (Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Ohno789\_10 Start: 6399, Stop: 8087, Start Num: 62

Candidate Starts for Ohno789\_10:

(Start: 62 @6399 has 371 MA's), (Start: 179 @6579 has 2 MA's), (213, 6663), (219, 6699), (225, 6726), (265, 6849), (299, 6957), (Start: 313 @7047 has 1 MA's), (319, 7071), (327, 7098), (337, 7146), (359, 7215), (375, 7290), (379, 7302), (392, 7362), (472, 7587), (477, 7596), (481, 7608), (498, 7650), (505, 7671), (515, 7698), (545, 7806), (594, 7896), (608, 7938), (635, 8040),

Gene: OlanP\_13 Start: 7209, Stop: 8909, Start Num: 65

Candidate Starts for OlanP\_13:

(Start: 65 @7209 has 85 MA's), (94, 7257), (Start: 137 @7329 has 1 MA's), (175, 7392), (265, 7671), (Start: 313 @7869 has 1 MA's), (335, 7959), (356, 8022), (392, 8184), (464, 8382), (471, 8406), (472, 8409), (498, 8472), (502, 8484), (505, 8493), (511, 8511), (516, 8532), (545, 8628), (569, 8682), (594, 8718), (636, 8865), (656, 8895), (658, 8898),

Gene: OldBen\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for OldBen\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Oliynyk\_7 Start: 2562, Stop: 4208, Start Num: 59

Candidate Starts for Oliynyk\_7:

(Start: 59 @2562 has 85 MA's), (Start: 75 @2580 has 21 MA's), (189, 2784), (Start: 218 @2865 has 2 MA's), (255, 3000), (266, 3021), (282, 3066), (296, 3108), (307, 3180), (Start: 313 @3204 has 1 MA's), (335, 3291), (338, 3303), (357, 3357), (389, 3456), (405, 3516), (468, 3678), (470, 3687), (502, 3777), (513, 3810), (532, 3882), (533, 3885), (545, 3924), (556, 3945), (558, 3951), (563, 3969), (609, 4065), (624, 4125),

Gene: Ollie\_13 Start: 6828, Stop: 8528, Start Num: 65

Candidate Starts for Ollie\_13:

(Start: 65 @6828 has 85 MA's), (94, 6876), (175, 7011), (238, 7203), (265, 7290), (Start: 313 @7488 has 1 MA's), (335, 7578), (356, 7641), (392, 7803), (464, 8001), (471, 8025), (472, 8028), (498, 8091), (505, 8112), (516, 8151), (545, 8247), (569, 8301), (594, 8337), (636, 8484), (656, 8514), (658, 8517),

Gene: OlympiaSaint\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for OlympiaSaint\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Omar\_7 Start: 2403, Stop: 4052, Start Num: 59

Candidate Starts for Omar\_7:

(Start: 59 @2403 has 85 MA's), (Start: 75 @2424 has 21 MA's), (120, 2502), (189, 2628), (203, 2664), (213, 2676), (Start: 218 @2709 has 2 MA's), (246, 2802), (250, 2817), (255, 2844), (266, 2865), (282, 2910), (296, 2952), (307, 3024), (Start: 313 @3048 has 1 MA's), (338, 3147), (351, 3186), (357, 3201), (368, 3261), (389, 3300), (395, 3321), (396, 3324), (405, 3360), (468, 3522), (470, 3531), (475, 3543), (479, 3552), (502, 3621), (511, 3648), (533, 3729), (545, 3768), (556, 3789), (563, 3813), (599, 3873), (624, 3969), (634, 3996), (660, 4047),

Gene: OneUp\_24 Start: 6501, Stop: 8249, Start Num: 102

Candidate Starts for OneUp\_24:

(Start: 102 @6501 has 27 MA's), (120, 6531), (173, 6621), (187, 6660), (241, 6885), (246, 6900), (249, 6909), (263, 6957), (271, 6984), (326, 7206), (329, 7224), (366, 7374), (390, 7434), (391, 7437), (396, 7449), (464, 7698), (498, 7800), (501, 7809), (502, 7812), (511, 7839), (512, 7842), (541, 7956), (558, 7992), (569, 8016), (640, 8205), (644, 8211),

Gene: Onglai\_12 Start: 6490, Stop: 8262, Start Num: 75

Candidate Starts for Onglai\_12:

(Start: 63 @6475 has 231 MA's), (Start: 75 @6490 has 21 MA's), (Start: 80 @6496 has 5 MA's), (143, 6607), (173, 6706), (225, 6868), (248, 6940), (265, 6994), (276, 7033), (299, 7105), (Start: 313 @7195 has 1 MA's), (319, 7219), (351, 7336), (357, 7351), (382, 7459), (400, 7534), (423, 7630), (468, 7750), (475, 7771), (494, 7810), (511, 7864), (512, 7867), (516, 7885), (531, 7939), (539, 7969), (545, 7981), (594, 8071), (600, 8089), (636, 8218), (654, 8245), (656, 8248),

Gene: Oofda\_14 Start: 6657, Stop: 8354, Start Num: 63

Candidate Starts for Oofda\_14:

(Start: 63 @6657 has 231 MA's), (78, 6675), (175, 6837), (225, 6993), (248, 7062), (265, 7116), (299, 7224), (304, 7251), (Start: 313 @7314 has 1 MA's), (319, 7338), (471, 7854), (498, 7917), (512, 7959), (545, 8073), (599, 8178), (636, 8310), (654, 8337), (656, 8340), (658, 8343),

Gene: Oogway\_10 Start: 6991, Stop: 8679, Start Num: 62

Candidate Starts for Oogway\_10:

(Start: 62 @6991 has 371 MA's), (Start: 179 @7171 has 2 MA's), (213, 7255), (219, 7291), (225, 7318), (265, 7441), (274, 7474), (299, 7549), (Start: 313 @7639 has 1 MA's), (319, 7663), (337, 7738), (359, 7807), (375, 7882), (379, 7894), (392, 7954), (472, 8179), (477, 8188), (481, 8200), (498, 8242), (505, 8263), (515, 8290), (545, 8398), (594, 8488), (621, 8593),

Gene: Orange\_12 Start: 8024, Stop: 9787, Start Num: 63

Candidate Starts for Orange\_12:

(Start: 63 @8024 has 231 MA's), (Start: 80 @8045 has 5 MA's), (128, 8132), (173, 8261), (182, 8285), (203, 8348), (248, 8492), (263, 8543), (265, 8546), (299, 8657), (303, 8681), (304, 8684), (Start: 313 @8747 has 1 MA's), (316, 8756), (319, 8771), (351, 8888), (357, 8903), (368, 8963), (389, 9047), (468, 9275), (471, 9287), (494, 9335), (498, 9350), (511, 9389), (516, 9410), (527, 9449), (539, 9494), (545, 9506), (636, 9743), (654, 9770),

Gene: Origami\_2 Start: 553, Stop: 2268, Start Num: 59

Candidate Starts for Origami\_2:

(Start: 59 @553 has 85 MA's), (Start: 137 @652 has 1 MA's), (243, 925), (255, 976), (265, 994), (280, 1042), (285, 1054), (305, 1135), (344, 1309), (409, 1522), (472, 1711), (502, 1795), (545, 1939), (553, 1954), (599, 2083), (627, 2191), (656, 2254),

Gene: Orla\_5 Start: 1093, Stop: 2793, Start Num: 99

Candidate Starts for Orla\_5:

(44, 985), (Start: 99 @1093 has 202 MA's), (Start: 137 @1147 has 1 MA's), (147, 1168), (157, 1195), (203, 1306), (226, 1384), (238, 1417), (248, 1459), (250, 1468), (265, 1513), (266, 1516), (278, 1564), (296, 1612), (299, 1633), (305, 1663), (326, 1753), (347, 1843), (362, 1897), (383, 1972), (412, 2110), (417, 2125), (428, 2134), (453, 2170), (455, 2176), (466, 2242), (468, 2248), (496, 2326), (498, 2332), (524, 2419), (533, 2452), (556, 2509), (562, 2530), (587, 2557), (607, 2617), (623, 2686), (624, 2689), (635, 2719), (638, 2734), (656, 2779), (658, 2782),

Gene: Outis\_25 Start: 12805, Stop: 14535, Start Num: 99

Candidate Starts for Outis\_25:

(Start: 99 @12805 has 202 MA's), (Start: 102 @12811 has 27 MA's), (197, 13006), (200, 13012), (212, 13051), (216, 13081), (225, 13123), (260, 13300), (317, 13516), (323, 13543), (367, 13711), (371,

13723), (380, 13756), (405, 13834), (476, 14017), (488, 14050), (492, 14080), (506, 14131), (518, 14179), (547, 14254), (552, 14266), (567, 14302), (621, 14440), (629, 14470),

Gene: Ovechkin\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Ovechkin\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Ozzie\_6 Start: 2400, Stop: 4028, Start Num: 75

Candidate Starts for Ozzie\_6:

(Start: 59 @2382 has 85 MA's), (Start: 75 @2400 has 21 MA's), (189, 2604), (Start: 218 @2685 has 2 MA's), (255, 2820), (266, 2841), (296, 2928), (307, 3000), (Start: 313 @3024 has 1 MA's), (338, 3123), (357, 3177), (389, 3276), (405, 3336), (468, 3498), (470, 3507), (502, 3597), (511, 3624), (532, 3702), (533, 3705), (545, 3744), (556, 3765), (558, 3771), (563, 3789), (609, 3885), (624, 3945),

Gene: OzzyJ\_7 Start: 2377, Stop: 4023, Start Num: 59

Candidate Starts for OzzyJ\_7:

(Start: 59 @2377 has 85 MA's), (Start: 75 @2395 has 21 MA's), (Start: 150 @2527 has 2 MA's), (189, 2599), (203, 2635), (255, 2815), (266, 2836), (282, 2881), (296, 2923), (307, 2995), (Start: 313 @3019 has 1 MA's), (338, 3118), (342, 3133), (351, 3157), (353, 3163), (405, 3331), (464, 3481), (470, 3502), (494, 3565), (502, 3592), (533, 3700), (545, 3739), (556, 3760), (558, 3766), (563, 3784), (609, 3880), (624, 3940), (660, 4018),

Gene: P28Green\_13 Start: 6956, Stop: 8656, Start Num: 65

Candidate Starts for P28Green\_13:

(Start: 65 @6956 has 85 MA's), (94, 7004), (175, 7139), (238, 7331), (265, 7418), (Start: 313 @7616 has 1 MA's), (335, 7706), (356, 7769), (392, 7931), (464, 8129), (471, 8153), (472, 8156), (498, 8219), (505, 8240), (516, 8279), (545, 8375), (569, 8429), (594, 8465), (636, 8612), (656, 8642), (658, 8645),

Gene: PGHhamlin\_15 Start: 6949, Stop: 8649, Start Num: 65

Candidate Starts for PGHhamlin\_15:

(Start: 65 @6949 has 85 MA's), (94, 6997), (175, 7132), (238, 7324), (265, 7411), (Start: 313 @7609 has 1 MA's), (335, 7699), (356, 7762), (392, 7924), (464, 8122), (471, 8146), (472, 8149), (498, 8212), (505, 8233), (516, 8272), (545, 8368), (569, 8422), (594, 8458), (636, 8605), (656, 8635), (658, 8638),

Gene: PHappiness\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for PHappiness\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: PMC\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for PMC\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (570, 1982), (576, 1994), (593, 2021), (605, 2054), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: PP\_21 Start: 12452, Stop: 14146, Start Num: 62

Candidate Starts for PP\_21:

(60, 12449), (Start: 62 @12452 has 371 MA's), (Start: 102 @12509 has 27 MA's), (107, 12515), (143, 12581), (Start: 179 @12632 has 2 MA's), (186, 12653), (213, 12716), (253, 12875), (257, 12890), (263, 12899), (265, 12902), (269, 12917), (283, 12953), (299, 13010), (303, 13034), (310, 13082), (Start: 313 @13100 has 1 MA's), (344, 13223), (345, 13226), (357, 13256), (379, 13355), (401, 13442), (408, 13475), (432, 13529), (438, 13541), (463, 13613), (471, 13640), (479, 13658), (494, 13691), (501, 13715), (545, 13862), (563, 13907), (625, 14069), (636, 14099),

Gene: PSullivan\_13 Start: 7479, Stop: 9167, Start Num: 62

Candidate Starts for PSullivan\_13:

(Start: 62 @7479 has 371 MA's), (Start: 179 @7659 has 2 MA's), (213, 7743), (219, 7779), (225, 7806), (265, 7929), (299, 8037), (Start: 313 @8127 has 1 MA's), (319, 8151), (327, 8178), (337, 8226), (379, 8382), (392, 8442), (477, 8676), (481, 8688), (498, 8730), (505, 8751), (515, 8778), (545, 8886), (594, 8976), (621, 9081),

Gene: Pablito\_6 Start: 2214, Stop: 3860, Start Num: 59

Candidate Starts for Pablito\_6:

(51, 2193), (Start: 57 @2208 has 2 MA's), (Start: 59 @2214 has 85 MA's), (74, 2229), (Start: 150 @2364 has 2 MA's), (213, 2484), (Start: 218 @2517 has 2 MA's), (255, 2652), (266, 2673), (274, 2703), (282, 2718), (296, 2760), (307, 2832), (Start: 313 @2856 has 1 MA's), (338, 2955), (357, 3009), (405, 3168), (426, 3231), (464, 3318), (470, 3339), (494, 3402), (502, 3429), (539, 3564), (545, 3576), (556, 3597), (558, 3603), (563, 3621), (599, 3681), (624, 3777), (645, 3825), (660, 3855),

Gene: Pacc40\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Pacc40\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: PacerPaul\_11 Start: 7247, Stop: 8935, Start Num: 62

Candidate Starts for PacerPaul\_11:

(Start: 62 @7247 has 371 MA's), (Start: 179 @7427 has 2 MA's), (213, 7511), (219, 7547), (225, 7574), (265, 7697), (299, 7805), (Start: 313 @7895 has 1 MA's), (319, 7919), (337, 7994), (379, 8150), (392, 8210), (472, 8435), (477, 8444), (481, 8456), (498, 8498), (505, 8519), (515, 8546), (545, 8654), (594, 8744), (621, 8849),

Gene: PackMan\_13 Start: 8109, Stop: 9896, Start Num: 63

Candidate Starts for PackMan\_13:

(Start: 63 @8109 has 231 MA's), (Start: 75 @8124 has 21 MA's), (Start: 80 @8130 has 5 MA's), (143, 8241), (173, 8340), (225, 8502), (248, 8574), (265, 8628), (276, 8667), (299, 8739), (Start: 313 @8829 has 1 MA's), (319, 8853), (351, 8970), (357, 8985), (382, 9093), (400, 9168), (408, 9204), (423, 9264), (468, 9384), (475, 9405), (494, 9444), (511, 9498), (512, 9501), (516, 9519), (531, 9573), (539, 9603), (545, 9615), (594, 9705), (600, 9723), (636, 9852), (654, 9879), (656, 9882),

Gene: Paedore\_6 Start: 2247, Stop: 3908, Start Num: 59

Candidate Starts for Paedore\_6:

(Start: 59 @2247 has 85 MA's), (Start: 218 @2565 has 2 MA's), (246, 2658), (250, 2673), (255, 2700), (266, 2721), (296, 2808), (Start: 313 @2904 has 1 MA's), (321, 2937), (335, 2991), (344, 3024), (353, 3048), (368, 3117), (396, 3180), (397, 3186), (405, 3216), (409, 3234), (444, 3300), (463, 3363), (464, 3366), (468, 3378), (470, 3387), (473, 3396), (494, 3450), (502, 3477), (545, 3624), (556, 3645), (563, 3669), (599, 3729), (624, 3825), (660, 3903),

Gene: PainterBoy\_13 Start: 7527, Stop: 9281, Start Num: 63

Candidate Starts for PainterBoy\_13:

(Start: 63 @7527 has 231 MA's), (143, 7659), (173, 7758), (203, 7845), (225, 7920), (248, 7989), (263, 8040), (265, 8043), (299, 8151), (Start: 313 @8241 has 1 MA's), (319, 8265), (356, 8394), (357, 8397), (362, 8433), (433, 8673), (438, 8682), (464, 8757), (494, 8829), (498, 8844), (511, 8883), (516, 8904), (539, 8988), (545, 9000), (599, 9105), (621, 9195), (624, 9204), (636, 9237), (654, 9264), (656, 9267), (658, 9270), (659, 9273),

Gene: Palestino\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Palestino\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Panamaxus\_12 Start: 7044, Stop: 8741, Start Num: 62

Candidate Starts for Panamaxus\_12:

(Start: 62 @7044 has 371 MA's), (Start: 81 @7068 has 1 MA's), (213, 7314), (257, 7488), (265, 7500), (276, 7539), (283, 7551), (299, 7608), (303, 7632), (Start: 313 @7698 has 1 MA's), (316, 7707), (335, 7788), (344, 7821), (379, 7953), (383, 7965), (395, 8019), (401, 8040), (408, 8073), (432, 8127), (464, 8214), (471, 8238), (472, 8241), (475, 8247), (479, 8256), (498, 8304), (511, 8343), (512, 8346), (516, 8364), (545, 8460), (569, 8514), (625, 8667), (636, 8697), (656, 8727), (658, 8730),

Gene: Paolo\_8 Start: 2800, Stop: 4446, Start Num: 59

Candidate Starts for Paolo\_8:

(Start: 59 @2800 has 85 MA's), (Start: 150 @2950 has 2 MA's), (213, 3070), (215, 3094), (246, 3196), (255, 3238), (257, 3244), (266, 3259), (296, 3346), (307, 3418), (Start: 313 @3442 has 1 MA's), (338, 3541), (347, 3577), (357, 3595), (386, 3688), (396, 3718), (405, 3754), (426, 3817), (464, 3904), (470, 3925), (475, 3937), (502, 4015), (511, 4042), (533, 4123), (545, 4162), (556, 4183), (563, 4207), (599, 4267), (624, 4363),

Gene: Papez\_13 Start: 8442, Stop: 10130, Start Num: 62

Candidate Starts for Papez\_13:

(Start: 62 @8442 has 371 MA's), (Start: 179 @8622 has 2 MA's), (213, 8706), (219, 8742), (225, 8769), (265, 8892), (274, 8925), (299, 9000), (Start: 313 @9090 has 1 MA's), (319, 9114), (327, 9141), (337, 9189), (379, 9345), (392, 9405), (477, 9639), (481, 9651), (498, 9693), (505, 9714), (515, 9741), (545, 9849), (594, 9939), (621, 10044),

Gene: Paphu\_10 Start: 6436, Stop: 8124, Start Num: 62

Candidate Starts for Paphu\_10:

(Start: 62 @6436 has 371 MA's), (213, 6700), (215, 6724), (265, 6886), (274, 6919), (Start: 313 @7084 has 1 MA's), (319, 7108), (327, 7135), (337, 7183), (359, 7252), (379, 7339), (392, 7399), (477, 7633), (481, 7645), (498, 7687), (505, 7708), (515, 7735), (545, 7843), (594, 7933), (621, 8038),

Gene: Paraselene\_10 Start: 6748, Stop: 8436, Start Num: 62

Candidate Starts for Paraselene\_10:

(Start: 62 @6748 has 371 MA's), (Start: 179 @6928 has 2 MA's), (213, 7012), (219, 7048), (225, 7075), (265, 7198), (299, 7306), (Start: 313 @7396 has 1 MA's), (319, 7420), (327, 7447), (337, 7495), (379, 7651), (392, 7711), (472, 7936), (477, 7945), (481, 7957), (498, 7999), (505, 8020), (515, 8047), (545, 8155), (594, 8245), (621, 8350),

Gene: Pari\_12 Start: 7215, Stop: 8903, Start Num: 62

Candidate Starts for Pari\_12:

(Start: 62 @7215 has 371 MA's), (Start: 179 @7395 has 2 MA's), (213, 7479), (219, 7515), (225, 7542), (253, 7638), (265, 7665), (274, 7698), (299, 7773), (Start: 313 @7863 has 1 MA's), (319, 7887), (327, 7914), (337, 7962), (359, 8031), (379, 8118), (382, 8127), (392, 8178), (477, 8412), (481, 8424), (498, 8466), (505, 8487), (515, 8514), (545, 8622), (594, 8712), (621, 8817),

Gene: Parliament\_10 Start: 6818, Stop: 8506, Start Num: 62

Candidate Starts for Parliament\_10:

(Start: 62 @6818 has 371 MA's), (213, 7082), (215, 7106), (265, 7268), (274, 7301), (299, 7376), (Start: 313 @7466 has 1 MA's), (319, 7490), (327, 7517), (337, 7565), (375, 7709), (379, 7721), (392, 7781), (472, 8006), (477, 8015), (481, 8027), (498, 8069), (505, 8090), (515, 8117), (545, 8225), (594, 8315), (621, 8420),

Gene: Partridge\_8 Start: 3215, Stop: 4897, Start Num: 66

Candidate Starts for Partridge\_8:

(Start: 66 @3215 has 35 MA's), (Start: 179 @3401 has 2 MA's), (203, 3473), (213, 3485), (219, 3521), (269, 3689), (291, 3749), (Start: 313 @3857 has 1 MA's), (377, 4112), (395, 4184), (456, 4328), (464, 4370), (475, 4403), (498, 4460), (502, 4472), (545, 4616), (563, 4661), (599, 4721), (624, 4820), (636, 4853), (654, 4880), (656, 4883), (658, 4886),

Gene: PascalRango\_10 Start: 6614, Stop: 8302, Start Num: 62

Candidate Starts for PascalRango\_10:

(Start: 62 @6614 has 371 MA's), (213, 6878), (215, 6902), (265, 7064), (274, 7097), (299, 7172), (Start: 313 @7262 has 1 MA's), (319, 7286), (327, 7313), (337, 7361), (379, 7517), (392, 7577), (472, 7802), (477, 7811), (481, 7823), (498, 7865), (505, 7886), (515, 7913), (545, 8021), (594, 8111), (621, 8216),

Gene: Patio\_27 Start: 13048, Stop: 14727, Start Num: 99

Candidate Starts for Patio\_27:

(Start: 99 @13048 has 202 MA's), (184, 13198), (200, 13255), (207, 13282), (212, 13294), (219, 13333), (225, 13366), (317, 13708), (323, 13735), (367, 13903), (371, 13915), (380, 13948), (405, 14026), (454, 14128), (488, 14242), (506, 14323), (511, 14338), (523, 14380), (547, 14446), (552, 14458), (567, 14494), (591, 14521), (611, 14590), (612, 14593), (629, 14662),

Gene: PatoPoderoso\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for PatoPoderoso\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860),

(223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: PattyP\_13 Start: 7272, Stop: 8960, Start Num: 70

Candidate Starts for PattyP\_13:

(Start: 70 @7272 has 45 MA's), (175, 7443), (Start: 179 @7452 has 2 MA's), (213, 7536), (216, 7563), (219, 7572), (265, 7722), (274, 7755), (299, 7830), (Start: 313 @7920 has 1 MA's), (319, 7944), (327, 7971), (337, 8019), (379, 8175), (392, 8235), (472, 8460), (477, 8469), (481, 8481), (498, 8523), (505, 8544), (515, 8571), (545, 8679), (594, 8769), (621, 8874),

Gene: Pavo\_7 Start: 2498, Stop: 4144, Start Num: 61

Candidate Starts for Pavo\_7:

(Start: 57 @2489 has 2 MA's), (Start: 61 @2498 has 11 MA's), (Start: 64 @2501 has 1 MA's), (Start: 75 @2516 has 21 MA's), (189, 2720), (203, 2756), (Start: 218 @2801 has 2 MA's), (246, 2894), (250, 2909), (255, 2936), (259, 2945), (266, 2957), (296, 3044), (304, 3092), (Start: 313 @3140 has 1 MA's), (338, 3239), (351, 3278), (389, 3392), (395, 3413), (405, 3452), (441, 3533), (464, 3602), (466, 3608), (470, 3623), (494, 3686), (532, 3818), (545, 3860), (558, 3887), (563, 3905), (595, 3953), (624, 4061),

Gene: Pawn\_13 Start: 7029, Stop: 8729, Start Num: 65

Candidate Starts for Pawn\_13:

(Start: 65 @7029 has 85 MA's), (94, 7077), (Start: 137 @7149 has 1 MA's), (175, 7212), (265, 7491), (Start: 313 @7689 has 1 MA's), (335, 7779), (356, 7842), (392, 8004), (464, 8202), (471, 8226), (472, 8229), (498, 8292), (502, 8304), (505, 8313), (511, 8331), (516, 8352), (545, 8448), (569, 8502), (594, 8538), (636, 8685), (656, 8715), (658, 8718),

Gene: Payneful\_11 Start: 6561, Stop: 8249, Start Num: 62

Candidate Starts for Payneful\_11:

(Start: 62 @6561 has 371 MA's), (213, 6825), (215, 6849), (265, 7011), (274, 7044), (299, 7119), (Start: 313 @7209 has 1 MA's), (319, 7233), (337, 7308), (379, 7464), (382, 7473), (391, 7521), (392, 7524), (472, 7749), (477, 7758), (481, 7770), (498, 7812), (505, 7833), (515, 7860), (545, 7968), (594, 8058), (621, 8163),

Gene: PeaceMeal1\_10 Start: 4783, Stop: 6474, Start Num: 62

Candidate Starts for PeaceMeal1\_10:

(Start: 62 @4783 has 371 MA's), (Start: 81 @4807 has 1 MA's), (Start: 148 @4930 has 2 MA's), (186, 4999), (203, 5050), (213, 5062), (221, 5104), (225, 5125), (250, 5203), (265, 5248), (276, 5287), (296, 5335), (299, 5356), (303, 5380), (Start: 313 @5431 has 1 MA's), (344, 5554), (384, 5701), (397, 5761), (408, 5806), (464, 5947), (484, 6001), (498, 6037), (511, 6076), (516, 6097), (545, 6193), (576, 6262), (636, 6430), (656, 6460), (658, 6463),

Gene: Peaches\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Peaches\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Pelly\_12 Start: 7447, Stop: 9135, Start Num: 62

Candidate Starts for Pelly\_12:

(Start: 62 @7447 has 371 MA's), (Start: 179 @7627 has 2 MA's), (213, 7711), (219, 7747), (225, 7774), (265, 7897), (299, 8005), (Start: 313 @8095 has 1 MA's), (319, 8119), (327, 8146), (359, 8263), (375, 8338), (379, 8350), (392, 8410), (477, 8644), (481, 8656), (498, 8698), (505, 8719), (515, 8746), (545, 8854), (594, 8944), (621, 9049),

Gene: Pemberton\_27 Start: 10374, Stop: 12101, Start Num: 99

Candidate Starts for Pemberton\_27:

(Start: 99 @10374 has 202 MA's), (184, 10524), (197, 10575), (212, 10620), (216, 10650), (219, 10659), (236, 10782), (241, 10800), (317, 11082), (323, 11109), (367, 11277), (371, 11289), (405, 11400), (476, 11583), (506, 11697), (511, 11712), (518, 11745), (547, 11820), (611, 11964), (621, 12006), (629, 12036), (651, 12078),

Gene: Pembroke\_13 Start: 6958, Stop: 8658, Start Num: 65

Candidate Starts for Pembroke\_13:

(Start: 65 @6958 has 85 MA's), (94, 7006), (175, 7141), (238, 7333), (265, 7420), (Start: 313 @7618 has 1 MA's), (335, 7708), (356, 7771), (392, 7933), (464, 8131), (471, 8155), (472, 8158), (498, 8221), (505, 8242), (516, 8281), (545, 8377), (569, 8431), (594, 8467), (636, 8614), (656, 8644), (658, 8647),

Gene: Penny1\_13 Start: 6957, Stop: 8657, Start Num: 65

Candidate Starts for Penny1\_13:

(Start: 65 @6957 has 85 MA's), (94, 7005), (175, 7140), (238, 7332), (265, 7419), (Start: 313 @7617 has 1 MA's), (335, 7707), (356, 7770), (392, 7932), (464, 8130), (471, 8154), (472, 8157), (498, 8220), (505, 8241), (516, 8280), (545, 8376), (569, 8430), (594, 8466), (636, 8613), (656, 8643), (658, 8646),

Gene: Pepe\_12 Start: 7470, Stop: 9158, Start Num: 62

Candidate Starts for Pepe\_12:

(Start: 62 @7470 has 371 MA's), (213, 7734), (215, 7758), (265, 7920), (274, 7953), (299, 8028), (Start: 313 @8118 has 1 MA's), (319, 8142), (327, 8169), (337, 8217), (375, 8361), (379, 8373), (392, 8433), (472, 8658), (477, 8667), (481, 8679), (498, 8721), (505, 8742), (515, 8769), (545, 8877), (594, 8967), (621, 9072),

Gene: Percival\_2 Start: 640, Stop: 2388, Start Num: 83

Candidate Starts for Percival\_2:

(Start: 83 @640 has 13 MA's), (97, 658), (243, 1000), (255, 1051), (265, 1069), (293, 1162), (305, 1219), (409, 1642), (464, 1804), (466, 1810), (523, 1984), (545, 2059), (553, 2074), (582, 2155), (618, 2278), (624, 2299), (627, 2311),

Gene: Perplexer\_11 Start: 6887, Stop: 8584, Start Num: 62

Candidate Starts for Perplexer\_11:

(Start: 62 @6887 has 371 MA's), (Start: 81 @6911 has 1 MA's), (213, 7157), (263, 7340), (265, 7343), (276, 7382), (299, 7451), (303, 7475), (Start: 313 @7541 has 1 MA's), (335, 7631), (379, 7796), (401, 7883), (454, 8009), (464, 8057), (471, 8081), (498, 8147), (511, 8186), (516, 8207), (545, 8303), (635, 8537), (636, 8540), (656, 8570), (658, 8573),

Gene: Perseus\_12 Start: 7131, Stop: 8819, Start Num: 62

Candidate Starts for Perseus\_12:

(Start: 62 @7131 has 371 MA's), (Start: 179 @7311 has 2 MA's), (213, 7395), (219, 7431), (265, 7581), (299, 7689), (Start: 313 @7779 has 1 MA's), (319, 7803), (337, 7878), (359, 7947), (379, 8034), (392, 8094), (477, 8328), (481, 8340), (498, 8382), (505, 8403), (515, 8430), (545, 8538), (594, 8628), (621, 8733),

Gene: Persistence\_2 Start: 689, Stop: 2329, Start Num: 150

Candidate Starts for Persistence\_2:

(Start: 101 @596 has 80 MA's), (Start: 150 @689 has 2 MA's), (152, 692), (189, 782), (194, 806), (204, 842), (205, 845), (224, 905), (241, 1013), (265, 1100), (293, 1187), (311, 1277), (321, 1319), (328, 1340), (336, 1376), (385, 1511), (386, 1517), (398, 1556), (412, 1625), (456, 1691), (457, 1703), (467, 1739), (482, 1787), (493, 1823), (511, 1880), (512, 1883), (522, 1943), (539, 2027), (600, 2153), (621, 2234), (636, 2276), (654, 2315),

Gene: PeterPeter\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for PeterPeter\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Petersenfast\_11 Start: 8027, Stop: 9790, Start Num: 63

Candidate Starts for Petersenfast\_11:

(Start: 63 @8027 has 231 MA's), (Start: 80 @8048 has 5 MA's), (128, 8135), (173, 8264), (182, 8288), (203, 8351), (248, 8495), (263, 8546), (265, 8549), (299, 8660), (303, 8684), (304, 8687), (Start: 313 @8750 has 1 MA's), (316, 8759), (319, 8774), (351, 8891), (357, 8906), (368, 8966), (389, 9050), (468, 9278), (471, 9290), (494, 9338), (498, 9353), (511, 9392), (516, 9413), (527, 9452), (539, 9497), (545, 9509), (636, 9746), (654, 9773),

Gene: Peterson\_14 Start: 8430, Stop: 10118, Start Num: 62

Candidate Starts for Peterson\_14:

(Start: 62 @8430 has 371 MA's), (213, 8694), (215, 8718), (253, 8853), (265, 8880), (274, 8913), (299, 8988), (Start: 313 @9078 has 1 MA's), (319, 9102), (327, 9129), (337, 9177), (379, 9333), (392, 9393), (472, 9618), (477, 9627), (481, 9639), (498, 9681), (505, 9702), (515, 9729), (545, 9837), (594, 9927), (621, 10032),

Gene: PeteyPab\_12 Start: 6676, Stop: 8742, Start Num: 4

Candidate Starts for PeteyPab\_12:

(Start: 4 @6676 has 5 MA's), (7, 6733), (24, 6871), (29, 6901), (34, 6925), (79, 7042), (88, 7063), (Start: 105 @7087 has 2 MA's), (138, 7150), (149, 7174), (212, 7336), (214, 7351), (215, 7369), (216, 7372), (223, 7396), (225, 7414), (241, 7471), (242, 7474), (252, 7516), (262, 7543), (268, 7561), (274, 7588), (279, 7606), (281, 7609), (299, 7663), (317, 7747), (318, 7750), (322, 7771), (327, 7792), (345, 7864), (358, 7894), (367, 7945), (394, 8026), (404, 8059), (465, 8221), (502, 8323), (511, 8350), (514, 8359), (552, 8470), (591, 8533), (621, 8644), (624, 8653), (659, 8734),

Gene: PetiteSangsue\_11 Start: 6893, Stop: 8590, Start Num: 62

Candidate Starts for PetiteSangsue\_11:

(Start: 62 @6893 has 371 MA's), (Start: 81 @6917 has 1 MA's), (213, 7163), (263, 7346), (265, 7349), (276, 7388), (299, 7457), (303, 7481), (Start: 313 @7547 has 1 MA's), (335, 7637), (379, 7802), (401, 7889), (454, 8015), (464, 8063), (471, 8087), (494, 8138), (498, 8153), (511, 8192), (516, 8213), (545, 8309), (635, 8543), (636, 8546), (656, 8576), (658, 8579),

Gene: Petruchio\_11 Start: 6689, Stop: 8377, Start Num: 62

Candidate Starts for Petruchio\_11:

(Start: 62 @6689 has 371 MA's), (Start: 179 @6869 has 2 MA's), (213, 6953), (219, 6989), (225, 7016), (265, 7139), (274, 7172), (299, 7247), (Start: 313 @7337 has 1 MA's), (319, 7361), (327, 7388), (337, 7436), (375, 7580), (379, 7592), (392, 7652), (472, 7877), (477, 7886), (481, 7898), (498, 7940), (505, 7961), (515, 7988), (545, 8096), (594, 8186), (621, 8291),

Gene: PetterN\_10 Start: 5984, Stop: 7735, Start Num: 42

Candidate Starts for PetterN\_10:

(Start: 37 @5957 has 19 MA's), (Start: 42 @5984 has 30 MA's), (Start: 66 @6044 has 35 MA's), (73, 6053), (97, 6092), (140, 6167), (143, 6173), (203, 6305), (225, 6380), (226, 6383), (284, 6557), (Start: 313 @6689 has 1 MA's), (324, 6734), (342, 6812), (344, 6818), (385, 6983), (395, 7016), (401, 7037), (464, 7211), (471, 7235), (511, 7337), (516, 7358), (531, 7412), (539, 7442), (545, 7454), (569, 7508), (635, 7688), (636, 7691), (658, 7724), (660, 7730),

Gene: Ph8s\_13 Start: 6262, Stop: 8046, Start Num: 63

Candidate Starts for Ph8s\_13:

(Start: 63 @6262 has 231 MA's), (173, 6493), (203, 6580), (250, 6733), (263, 6775), (265, 6778), (299, 6889), (303, 6913), (304, 6916), (Start: 313 @6979 has 1 MA's), (319, 7003), (357, 7135), (511, 7648), (516, 7669), (539, 7753), (545, 7765), (595, 7858), (600, 7873), (636, 8002), (654, 8029), (656, 8032),

Gene: Phacado\_11 Start: 6883, Stop: 8580, Start Num: 62

Candidate Starts for Phacado\_11:

(Start: 62 @6883 has 371 MA's), (Start: 81 @6907 has 1 MA's), (Start: 148 @7030 has 2 MA's), (196, 7120), (213, 7153), (238, 7252), (263, 7336), (265, 7339), (276, 7378), (299, 7447), (303, 7471), (Start: 313 @7537 has 1 MA's), (335, 7627), (379, 7792), (401, 7879), (408, 7912), (438, 7978), (463, 8050), (464, 8053), (471, 8077), (494, 8128), (498, 8143), (511, 8182), (516, 8203), (545, 8299), (636, 8536), (656, 8566), (658, 8569),

Gene: Phaded\_15 Start: 9549, Stop: 11327, Start Num: 63

Candidate Starts for Phaded\_15:

(Start: 63 @9549 has 231 MA's), (Start: 80 @9567 has 5 MA's), (143, 9678), (Start: 148 @9690 has 2 MA's), (159, 9732), (162, 9744), (165, 9753), (173, 9777), (203, 9864), (263, 10059), (265, 10062), (276, 10101), (299, 10170), (Start: 313 @10260 has 1 MA's), (319, 10284), (344, 10383), (357, 10416), (433, 10716), (464, 10803), (502, 10902), (511, 10929), (516, 10950), (545, 11046), (636, 11283), (654, 11310), (656, 11313),

Gene: Phaeder\_13 Start: 8124, Stop: 9896, Start Num: 75

Candidate Starts for Phaeder\_13:

(Start: 63 @8109 has 231 MA's), (Start: 75 @8124 has 21 MA's), (Start: 80 @8130 has 5 MA's), (143, 8241), (173, 8340), (225, 8502), (248, 8574), (265, 8628), (276, 8667), (299, 8739), (Start: 313 @8829 has 1 MA's), (319, 8853), (351, 8970), (357, 8985), (382, 9093), (400, 9168), (408, 9204), (423, 9264), (468, 9384), (475, 9405), (494, 9444), (511, 9498), (512, 9501), (516, 9519), (531, 9573), (539, 9603), (545, 9615), (594, 9705), (600, 9723), (636, 9852), (654, 9879), (656, 9882),

Gene: PhailMary\_7 Start: 3222, Stop: 4904, Start Num: 66

Candidate Starts for PhailMary\_7:

(Start: 66 @3222 has 35 MA's), (Start: 179 @3408 has 2 MA's), (203, 3480), (213, 3492), (215, 3516), (219, 3528), (265, 3681), (269, 3696), (291, 3756), (Start: 313 @3864 has 1 MA's), (327, 3921), (377, 4119), (383, 4137), (395, 4191), (456, 4335), (464, 4377), (475, 4410), (498, 4467), (502, 4479), (545, 4623), (563, 4668), (599, 4728), (624, 4827), (636, 4860), (654, 4887), (656, 4890), (658, 4893),

Gene: Phalconet\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Phalconet\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514,

1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Phanphagia\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Phanphagia\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Phantastic\_11 Start: 6458, Stop: 8155, Start Num: 62

Candidate Starts for Phantastic\_11:

(Start: 62 @6458 has 371 MA's), (109, 6530), (213, 6728), (225, 6791), (257, 6902), (265, 6914), (276, 6953), (283, 6965), (299, 7022), (303, 7046), (308, 7076), (Start: 313 @7112 has 1 MA's), (316, 7121), (335, 7202), (342, 7229), (379, 7367), (395, 7433), (401, 7454), (408, 7487), (438, 7553), (464, 7628), (471, 7652), (472, 7655), (475, 7661), (479, 7670), (498, 7718), (511, 7757), (516, 7778), (545, 7874), (569, 7928), (625, 8081), (636, 8111), (656, 8141), (658, 8144),

Gene: Pharaoh\_12 Start: 7906, Stop: 9693, Start Num: 63

Candidate Starts for Pharaoh\_12:

(Start: 63 @7906 has 231 MA's), (Start: 80 @7927 has 5 MA's), (138, 8029), (143, 8038), (173, 8137), (184, 8167), (185, 8170), (250, 8380), (265, 8425), (276, 8464), (299, 8536), (303, 8560), (Start: 313 @8626 has 1 MA's), (319, 8650), (344, 8749), (351, 8767), (357, 8782), (444, 9097), (464, 9169), (494, 9241), (502, 9268), (511, 9295), (512, 9298), (516, 9316), (545, 9412), (635, 9646), (636, 9649), (654, 9676), (656, 9679), (658, 9682),

Gene: Phasih\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Phasih\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Phatniss\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Phatniss\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (189, 737), (200, 758), (222, 845), (223, 851), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Phelipe\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Phelipe\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: PherrisBueller\_12 Start: 6899, Stop: 8587, Start Num: 62

Candidate Starts for PherrisBueller\_12:

(Start: 62 @6899 has 371 MA's), (Start: 179 @7079 has 2 MA's), (213, 7163), (219, 7199), (265, 7349), (299, 7457), (Start: 313 @7547 has 1 MA's), (319, 7571), (327, 7598), (337, 7646), (379, 7802), (392, 7862), (477, 8096), (481, 8108), (498, 8150), (505, 8171), (515, 8198), (545, 8306), (594, 8396), (621, 8501),

Gene: PhesterPhotato\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for PhesterPhotato\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Phettuccine\_6 Start: 2402, Stop: 4048, Start Num: 59

Candidate Starts for Phettuccine\_6:

(Start: 59 @2402 has 85 MA's), (Start: 75 @2420 has 21 MA's), (189, 2624), (Start: 218 @2705 has 2 MA's), (255, 2840), (266, 2861), (296, 2948), (307, 3020), (Start: 313 @3044 has 1 MA's), (338, 3143), (357, 3197), (389, 3296), (405, 3356), (468, 3518), (470, 3527), (502, 3617), (511, 3644), (532, 3722), (533, 3725), (545, 3764), (556, 3785), (558, 3791), (563, 3809), (609, 3905), (624, 3965),

Gene: Phighter1804\_11 Start: 6860, Stop: 8557, Start Num: 62

Candidate Starts for Phighter1804\_11:

(Start: 62 @6860 has 371 MA's), (Start: 81 @6884 has 1 MA's), (Start: 148 @7007 has 2 MA's), (196, 7097), (213, 7130), (238, 7229), (263, 7313), (265, 7316), (276, 7355), (299, 7424), (303, 7448), (Start: 313 @7514 has 1 MA's), (335, 7604), (379, 7769), (401, 7856), (408, 7889), (438, 7955), (463, 8027), (464, 8030), (471, 8054), (494, 8105), (498, 8120), (511, 8159), (516, 8180), (545, 8276), (636, 8513), (656, 8543), (658, 8546),

Gene: Phillis\_9 Start: 5664, Stop: 7418, Start Num: 42

Candidate Starts for Phillis\_9:

(Start: 42 @5664 has 30 MA's), (Start: 54 @5706 has 7 MA's), (Start: 81 @5745 has 1 MA's), (143, 5853), (225, 6060), (250, 6138), (291, 6261), (298, 6288), (Start: 313 @6369 has 1 MA's), (344, 6498), (385, 6663), (395, 6696), (441, 6816), (463, 6888), (464, 6891), (505, 7002), (516, 7041), (545, 7137), (599, 7242), (624, 7341), (636, 7374), (658, 7407), (660, 7413),

Gene: Philus\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Philus\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (153, 674), (185, 719), (200, 758), (222, 845), (223, 851), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226),

(327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: PhinkBoden\_30 Start: 9066, Stop: 10814, Start Num: 102

Candidate Starts for PhinkBoden\_30:

(Start: 102 @9066 has 27 MA's), (120, 9096), (187, 9225), (235, 9411), (241, 9450), (249, 9474), (254, 9504), (263, 9522), (271, 9549), (280, 9579), (326, 9771), (329, 9789), (370, 9951), (390, 9999), (396, 10014), (453, 10197), (455, 10203), (471, 10287), (501, 10374), (512, 10407), (541, 10521), (558, 10557), (569, 10581), (579, 10596), (640, 10770), (644, 10776),

Gene: PhishRPhriends\_12 Start: 6220, Stop: 7920, Start Num: 65

Candidate Starts for PhishRPhriends\_12:

(Start: 65 @6220 has 85 MA's), (94, 6268), (Start: 137 @6340 has 1 MA's), (175, 6403), (265, 6682), (Start: 313 @6880 has 1 MA's), (335, 6970), (356, 7033), (392, 7195), (464, 7393), (471, 7417), (472, 7420), (498, 7483), (502, 7495), (505, 7504), (511, 7522), (516, 7543), (545, 7639), (569, 7693), (594, 7729), (636, 7876), (656, 7906), (658, 7909),

Gene: Phives\_3 Start: 1606, Stop: 3312, Start Num: 84

Candidate Starts for Phives\_3:

(Start: 84 @1606 has 42 MA's), (265, 2035), (280, 2083), (305, 2173), (332, 2305), (344, 2347), (418, 2599), (464, 2722), (533, 2941), (545, 2977), (553, 2992), (599, 3127), (624, 3223), (627, 3235),

Gene: Phlei\_8 Start: 7957, Stop: 9663, Start Num: 97

Candidate Starts for Phlei\_8:

(Start: 63 @7912 has 231 MA's), (97, 7957), (169, 8119), (173, 8137), (189, 8188), (213, 8236), (225, 8299), (248, 8368), (250, 8377), (265, 8422), (299, 8533), (303, 8557), (304, 8560), (Start: 313 @8623 has 1 MA's), (316, 8632), (319, 8647), (337, 8722), (357, 8779), (362, 8815), (368, 8839), (389, 8923), (401, 8965), (432, 9052), (438, 9064), (464, 9139), (468, 9151), (471, 9163), (472, 9166), (498, 9226), (511, 9265), (515, 9274), (516, 9286), (545, 9382), (576, 9451), (621, 9577), (624, 9586), (625, 9589), (636, 9619), (654, 9646), (656, 9649),

Gene: PhlipPhlop\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for PhlipPhlop\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Phlorence\_9 Start: 6269, Stop: 8047, Start Num: 37

Candidate Starts for Phlorence\_9:

(Start: 37 @6269 has 19 MA's), (Start: 42 @6296 has 30 MA's), (73, 6365), (97, 6404), (140, 6479), (143, 6485), (203, 6617), (225, 6692), (226, 6695), (269, 6830), (284, 6869), (291, 6893), (Start: 313 @7001 has 1 MA's), (324, 7046), (342, 7124), (344, 7130), (385, 7295), (395, 7328), (401, 7349), (464, 7523), (471, 7547), (472, 7550), (498, 7610), (502, 7622), (511, 7649), (516, 7670), (539, 7754), (545, 7766), (636, 8003), (658, 8036), (660, 8042),

Gene: Phoebe\_13 Start: 6955, Stop: 8655, Start Num: 65

Candidate Starts for Phoebe\_13:

(Start: 65 @6955 has 85 MA's), (94, 7003), (175, 7138), (238, 7330), (265, 7417), (Start: 313 @7615 has 1 MA's), (335, 7705), (356, 7768), (392, 7930), (464, 8128), (471, 8152), (472, 8155), (498, 8218), (505, 8239), (516, 8278), (545, 8374), (569, 8428), (594, 8464), (636, 8611), (656, 8641), (658, 8644),

Gene: Phomeo\_23 Start: 12804, Stop: 14531, Start Num: 96

Candidate Starts for Phomeo\_23:

(19, 12570), (43, 12699), (Start: 96 @12804 has 12 MA's), (184, 12954), (197, 13005), (200, 13011), (212, 13050), (216, 13080), (223, 13104), (225, 13122), (229, 13149), (236, 13212), (241, 13230), (317, 13515), (323, 13542), (343, 13626), (367, 13710), (371, 13722), (380, 13755), (405, 13833), (444, 13911), (464, 13983), (476, 14016), (492, 14079), (498, 14106), (506, 14130), (514, 14154), (547, 14253), (567, 14301), (621, 14439), (629, 14469), (659, 14523),

Gene: Phonnegut\_13 Start: 8163, Stop: 9929, Start Num: 80

Candidate Starts for Phonnegut\_13:

(Start: 63 @8142 has 231 MA's), (Start: 75 @8157 has 21 MA's), (Start: 80 @8163 has 5 MA's), (143, 8274), (173, 8373), (225, 8535), (248, 8607), (265, 8661), (276, 8700), (299, 8772), (Start: 313 @8862 has 1 MA's), (319, 8886), (351, 9003), (357, 9018), (382, 9126), (400, 9201), (408, 9237), (423, 9297), (468, 9417), (475, 9438), (494, 9477), (511, 9531), (512, 9534), (516, 9552), (531, 9606), (539, 9636), (545, 9648), (594, 9738), (600, 9756), (636, 9885), (654, 9912), (656, 9915),

Gene: Phontbonne\_11 Start: 6828, Stop: 8525, Start Num: 62

Candidate Starts for Phontbonne\_11:

(20, 6651), (23, 6669), (27, 6699), (Start: 62 @6828 has 371 MA's), (Start: 81 @6852 has 1 MA's), (Start: 148 @6975 has 2 MA's), (196, 7065), (213, 7098), (238, 7197), (263, 7281), (265, 7284), (276, 7323), (299, 7392), (303, 7416), (Start: 313 @7482 has 1 MA's), (335, 7572), (379, 7737), (401, 7824), (408, 7857), (438, 7923), (463, 7995), (464, 7998), (471, 8022), (494, 8073), (498, 8088), (511, 8127), (516, 8148), (545, 8244), (636, 8481), (656, 8511), (658, 8514),

Gene: Phoxy\_13 Start: 7041, Stop: 8741, Start Num: 65

Candidate Starts for Phoxy\_13:

(Start: 65 @7041 has 85 MA's), (94, 7089), (175, 7224), (238, 7416), (265, 7503), (Start: 313 @7701 has 1 MA's), (335, 7791), (356, 7854), (392, 8016), (464, 8214), (471, 8238), (472, 8241), (498, 8304), (505, 8325), (516, 8364), (545, 8460), (569, 8514), (594, 8550), (636, 8697), (656, 8727), (658, 8730),

Gene: Phrank15\_2 Start: 597, Stop: 2330, Start Num: 101

Candidate Starts for Phrank15\_2:

(Start: 101 @597 has 80 MA's), (Start: 150 @690 has 2 MA's), (152, 693), (189, 783), (194, 807), (204, 843), (205, 846), (224, 906), (241, 1014), (265, 1101), (270, 1119), (293, 1188), (311, 1278), (319, 1311), (321, 1320), (328, 1341), (336, 1377), (385, 1512), (386, 1518), (398, 1557), (412, 1626), (456, 1692), (457, 1704), (467, 1740), (482, 1788), (493, 1824), (511, 1881), (522, 1944), (539, 2028), (551, 2052), (569, 2094), (599, 2151), (600, 2154), (604, 2166), (621, 2235), (636, 2277), (648, 2304), (654, 2316),

Gene: Phrankenstein\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Phrankenstein\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (463, 4308), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Phranny\_14 Start: 7027, Stop: 8727, Start Num: 65

Candidate Starts for Phranny\_14:

(Start: 65 @7027 has 85 MA's), (94, 7075), (175, 7210), (265, 7489), (Start: 313 @7687 has 1 MA's), (335, 7777), (356, 7840), (392, 8002), (464, 8200), (471, 8224), (472, 8227), (498, 8290), (502, 8302), (505, 8311), (511, 8329), (516, 8350), (545, 8446), (569, 8500), (594, 8536), (636, 8683), (656, 8713), (658, 8716),

Gene: PhrostyMug\_11 Start: 7045, Stop: 8733, Start Num: 62

Candidate Starts for PhrostyMug\_11:

(Start: 62 @7045 has 371 MA's), (213, 7309), (215, 7333), (265, 7495), (274, 7528), (299, 7603), (Start: 313 @7693 has 1 MA's), (319, 7717), (327, 7744), (337, 7792), (379, 7948), (392, 8008), (472, 8233), (477, 8242), (481, 8254), (498, 8296), (505, 8317), (515, 8344), (545, 8452), (594, 8542), (621, 8647),

Gene: PickleBack\_9 Start: 5979, Stop: 7757, Start Num: 37

Candidate Starts for PickleBack\_9:

(Start: 37 @5979 has 19 MA's), (Start: 42 @6006 has 30 MA's), (73, 6075), (97, 6114), (140, 6189), (143, 6195), (203, 6327), (225, 6402), (226, 6405), (269, 6540), (284, 6579), (291, 6603), (Start: 313 @6711 has 1 MA's), (324, 6756), (342, 6834), (344, 6840), (385, 7005), (395, 7038), (401, 7059), (464, 7233), (471, 7257), (472, 7260), (498, 7320), (502, 7332), (511, 7359), (516, 7380), (539, 7464), (545, 7476), (636, 7713), (658, 7746), (660, 7752),

Gene: PinkPlastic\_10 Start: 6814, Stop: 8502, Start Num: 62

Candidate Starts for PinkPlastic\_10:

(Start: 62 @6814 has 371 MA's), (Start: 179 @6994 has 2 MA's), (213, 7078), (219, 7114), (225, 7141), (253, 7237), (265, 7264), (274, 7297), (299, 7372), (Start: 313 @7462 has 1 MA's), (319, 7486), (337, 7561), (359, 7630), (379, 7717), (382, 7726), (392, 7777), (477, 8011), (481, 8023), (498, 8065), (505, 8086), (515, 8113), (545, 8221), (594, 8311), (621, 8416),

Gene: Pinto\_13 Start: 7121, Stop: 8809, Start Num: 62

Candidate Starts for Pinto\_13:

(Start: 62 @7121 has 371 MA's), (213, 7385), (215, 7409), (265, 7571), (274, 7604), (299, 7679), (Start: 313 @7769 has 1 MA's), (319, 7793), (327, 7820), (337, 7868), (379, 8024), (392, 8084), (472, 8309), (477, 8318), (481, 8330), (498, 8372), (505, 8393), (515, 8420), (545, 8528), (594, 8618), (621, 8723),

Gene: Pioneer\_13 Start: 8157, Stop: 9929, Start Num: 75

Candidate Starts for Pioneer\_13:

(Start: 63 @8142 has 231 MA's), (Start: 75 @8157 has 21 MA's), (Start: 80 @8163 has 5 MA's), (143, 8274), (173, 8373), (225, 8535), (248, 8607), (265, 8661), (276, 8700), (299, 8772), (Start: 313 @8862 has 1 MA's), (319, 8886), (351, 9003), (357, 9018), (382, 9126), (400, 9201), (408, 9237), (423, 9297), (468, 9417), (475, 9438), (494, 9477), (511, 9531), (512, 9534), (516, 9552), (531, 9606), (539, 9636), (545, 9648), (594, 9738), (600, 9756), (636, 9885), (654, 9912), (656, 9915),

Gene: Pipcraft\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Pipcraft\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Pippin\_13 Start: 7322, Stop: 9010, Start Num: 70

Candidate Starts for Pippin\_13:

(Start: 70 @7322 has 45 MA's), (175, 7493), (Start: 179 @7502 has 2 MA's), (213, 7586), (216, 7613), (219, 7622), (265, 7772), (274, 7805), (299, 7880), (Start: 313 @7970 has 1 MA's), (319, 7994), (327, 8021), (337, 8069), (379, 8225), (392, 8285), (472, 8510), (477, 8519), (481, 8531), (498, 8573), (505, 8594), (515, 8621), (545, 8729), (594, 8819), (621, 8924),

Gene: Pippy\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Pippy\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Piro94\_13 Start: 7941, Stop: 9728, Start Num: 63

Candidate Starts for Piro94\_13:

(16, 7755), (35, 7857), (Start: 63 @7941 has 231 MA's), (128, 8049), (138, 8070), (173, 8178), (265, 8463), (299, 8571), (Start: 313 @8661 has 1 MA's), (319, 8685), (351, 8802), (357, 8817), (464, 9204), (511, 9330), (516, 9351), (539, 9435), (545, 9447), (636, 9684), (654, 9711), (656, 9714), (658, 9717), (659, 9720),

Gene: Pistachio\_12 Start: 6043, Stop: 7740, Start Num: 62

Candidate Starts for Pistachio\_12:

(Start: 62 @6043 has 371 MA's), (Start: 81 @6067 has 1 MA's), (109, 6115), (213, 6313), (225, 6376), (257, 6487), (265, 6499), (276, 6538), (283, 6550), (299, 6607), (303, 6631), (Start: 313 @6697 has 1 MA's), (316, 6706), (335, 6787), (342, 6814), (379, 6952), (401, 7039), (408, 7072), (438, 7138), (464, 7213), (471, 7237), (472, 7240), (475, 7246), (479, 7255), (494, 7288), (498, 7303), (516, 7363), (545, 7459), (563, 7504), (569, 7513), (625, 7666), (636, 7696), (656, 7726), (658, 7729),

Gene: Pita2\_13 Start: 7479, Stop: 9167, Start Num: 62

Candidate Starts for Pita2\_13:

(Start: 62 @7479 has 371 MA's), (Start: 179 @7659 has 2 MA's), (213, 7743), (219, 7779), (225, 7806), (265, 7929), (299, 8037), (Start: 313 @8127 has 1 MA's), (319, 8151), (327, 8178), (337, 8226), (379, 8382), (392, 8442), (477, 8676), (481, 8688), (498, 8730), (505, 8751), (515, 8778), (545, 8886), (594, 8976), (621, 9081),

Gene: Pixelle\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for Pixelle\_2:

(Start: 84 @533 has 42 MA's), (126, 599), (247, 905), (265, 962), (270, 983), (280, 1010), (305, 1100), (316, 1154), (326, 1199), (344, 1274), (418, 1526), (464, 1649), (523, 1829), (545, 1904), (553, 1919), (599, 2054), (609, 2090), (624, 2150), (627, 2162), (641, 2192),

Gene: Pleakley\_33 Start: 12932, Stop: 14611, Start Num: 95

Candidate Starts for Pleakley\_33:

(Start: 95 @12932 has 3 MA's), (Start: 101 @12938 has 80 MA's), (153, 13043), (200, 13142), (212, 13181), (216, 13211), (223, 13235), (267, 13391), (317, 13592), (327, 13637), (367, 13787), (371, 13799), (476, 14093), (488, 14126), (506, 14207), (547, 14330), (552, 14342), (591, 14405), (611, 14474), (621, 14516), (629, 14546), (651, 14588), (659, 14603),

Gene: Pmask\_15 Start: 7523, Stop: 9277, Start Num: 63

Candidate Starts for Pmask\_15:

(Start: 63 @7523 has 231 MA's), (173, 7754), (189, 7805), (203, 7841), (225, 7916), (265, 8039), (276, 8078), (299, 8147), (303, 8171), (304, 8174), (Start: 313 @8237 has 1 MA's), (319, 8261), (356, 8390), (357, 8393), (383, 8504), (432, 8666), (464, 8753), (468, 8765), (471, 8777), (494, 8825), (498, 8840), (511, 8879), (516, 8900), (539, 8984), (545, 8996), (636, 9233), (654, 9260), (656, 9263),

Gene: Pocahontas\_12 Start: 7041, Stop: 8738, Start Num: 62

Candidate Starts for Pocahontas\_12:

(Start: 62 @7041 has 371 MA's), (Start: 81 @7065 has 1 MA's), (213, 7311), (257, 7485), (265, 7497), (276, 7536), (283, 7548), (299, 7605), (303, 7629), (Start: 313 @7695 has 1 MA's), (316, 7704), (335, 7785), (344, 7818), (379, 7950), (383, 7962), (395, 8016), (401, 8037), (408, 8070), (432, 8124), (464, 8211), (471, 8235), (472, 8238), (475, 8244), (479, 8253), (498, 8301), (511, 8340), (512, 8343), (516, 8361), (545, 8457), (569, 8511), (625, 8664), (636, 8694), (656, 8724), (658, 8727),

Gene: Poenanya\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Poenanya\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Poise\_35 Start: 10438, Stop: 12180, Start Num: 101

Candidate Starts for Poise\_35:

(Start: 101 @10438 has 80 MA's), (175, 10555), (189, 10600), (206, 10666), (208, 10681), (215, 10714), (216, 10717), (221, 10732), (226, 10756), (227, 10759), (238, 10789), (244, 10810), (246, 10828), (249, 10837), (256, 10873), (265, 10888), (278, 10933), (296, 10975), (301, 11014), (305, 11026), (307, 11047), (320, 11098), (327, 11119), (388, 11341), (412, 11446), (414, 11455), (447, 11488), (455, 11509), (456, 11512), (460, 11539), (464, 11569), (468, 11581), (472, 11596), (477, 11605), (479, 11611), (493, 11653), (495, 11662), (500, 11677), (505, 11692), (523, 11752), (531, 11791), (540, 11824), (556, 11854), (557, 11857), (583, 11941), (599, 11995), (604, 12010), (612, 12037), (624, 12091), (654, 12163), (656, 12166),

Gene: Polka14\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Polka14\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Pollux\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for Pollux\_2:

(Start: 70 @485 has 45 MA's), (145, 623), (155, 650), (201, 782), (203, 797), (228, 881), (239, 911), (243, 923), (246, 932), (254, 971), (265, 992), (285, 1052), (295, 1076), (306, 1148), (316, 1184), (325, 1220), (345, 1310), (350, 1331), (361, 1376), (362, 1382), (366, 1400), (371, 1415), (439, 1589), (456, 1616), (472, 1685), (475, 1691), (494, 1757), (497, 1769), (506, 1796), (533, 1907), (539, 1943), (545, 1955), (549, 1961), (558, 1979), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627,

2207), (632, 2222), (656, 2270), (658, 2273),

Gene: Polo2Bam\_2 Start: 652, Stop: 2208, Start Num: 144

Candidate Starts for Polo2Bam\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 134 @628 has 1 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (267, 997), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (569, 1963), (576, 1978), (593, 2005), (605, 2038), (611, 2065), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Polymorphads\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Polymorphads\_11:

(20, 6707), (23, 6725), (27, 6755), (Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Polyphemus\_15 Start: 7525, Stop: 9279, Start Num: 63

Candidate Starts for Polyphemus\_15:

(Start: 63 @7525 has 231 MA's), (173, 7756), (189, 7807), (203, 7843), (225, 7918), (265, 8041), (276, 8080), (299, 8149), (303, 8173), (304, 8176), (Start: 313 @8239 has 1 MA's), (319, 8263), (356, 8392), (357, 8395), (383, 8506), (432, 8668), (464, 8755), (468, 8767), (471, 8779), (494, 8827), (498, 8842), (511, 8881), (516, 8902), (539, 8986), (545, 8998), (636, 9235), (654, 9262), (656, 9265),

Gene: Polyyuki\_28 Start: 14049, Stop: 15722, Start Num: 99

Candidate Starts for Polyyuki\_28:

(Start: 99 @14049 has 202 MA's), (184, 14193), (197, 14244), (212, 14289), (241, 14418), (248, 14439), (252, 14463), (262, 14490), (272, 14523), (293, 14589), (302, 14637), (317, 14700), (323, 14727), (367, 14895), (371, 14907), (405, 15018), (416, 15069), (465, 15168), (492, 15267), (494, 15279), (502, 15306), (506, 15318), (511, 15333), (531, 15408), (547, 15441), (560, 15474), (605, 15558), (609, 15579), (621, 15627), (653, 15702),

Gene: Pomar16\_15 Start: 7416, Stop: 9203, Start Num: 63

Candidate Starts for Pomar16\_15:

(22, 7257), (26, 7284), (47, 7380), (Start: 63 @7416 has 231 MA's), (128, 7524), (138, 7545), (160, 7611), (173, 7653), (203, 7740), (263, 7935), (265, 7938), (299, 8046), (Start: 313 @8136 has 1 MA's), (319, 8160), (344, 8259), (356, 8289), (357, 8292), (383, 8403), (433, 8592), (494, 8751), (498, 8766), (502, 8778), (511, 8805), (516, 8826), (539, 8910), (545, 8922), (594, 9012), (636, 9159), (654, 9186), (656, 9189),

Gene: Pons\_4 Start: 897, Stop: 2573, Start Num: 101

Candidate Starts for Pons\_4:

(Start: 101 @897 has 80 MA's), (Start: 137 @948 has 1 MA's), (147, 969), (177, 1014), (224, 1158), (243, 1221), (250, 1254), (259, 1290), (265, 1299), (266, 1302), (274, 1335), (278, 1350), (305, 1449), (307, 1470), (317, 1506), (321, 1527), (330, 1563), (347, 1629), (362, 1683), (406, 1863), (412, 1896), (455, 1962), (456, 1965), (466, 2028), (468, 2034), (523, 2199), (531, 2232), (558, 2301), (559, 2307), (599, 2379), (600, 2382), (623, 2472), (625, 2478), (632, 2499), (656, 2559), (658, 2562),

Gene: Poompha\_10 Start: 4781, Stop: 6472, Start Num: 62

Candidate Starts for Poompha\_10:

(Start: 62 @4781 has 371 MA's), (Start: 81 @4805 has 1 MA's), (186, 4997), (203, 5048), (213, 5060), (225, 5123), (250, 5201), (265, 5246), (276, 5285), (296, 5333), (299, 5354), (303, 5378), (Start: 313 @5429 has 1 MA's), (344, 5552), (384, 5699), (397, 5759), (408, 5804), (464, 5945), (484, 5999), (498, 6035), (511, 6074), (516, 6095), (545, 6191), (576, 6260), (636, 6428), (656, 6458), (658, 6461),

Gene: PopTart\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for PopTart\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Popticle\_12 Start: 7041, Stop: 8738, Start Num: 62

Candidate Starts for Popticle\_12:

(Start: 62 @7041 has 371 MA's), (Start: 81 @7065 has 1 MA's), (213, 7311), (257, 7485), (265, 7497), (276, 7536), (283, 7548), (299, 7605), (303, 7629), (Start: 313 @7695 has 1 MA's), (316, 7704), (335, 7785), (344, 7818), (379, 7950), (383, 7962), (395, 8016), (401, 8037), (408, 8070), (432, 8124), (464, 8211), (471, 8235), (472, 8238), (475, 8244), (479, 8253), (498, 8301), (511, 8340), (512, 8343), (516, 8361), (545, 8457), (569, 8511), (625, 8664), (636, 8694), (656, 8724), (658, 8727),

Gene: Posh\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for Posh\_2:

(Start: 70 @485 has 45 MA's), (145, 623), (201, 782), (203, 797), (228, 881), (239, 911), (243, 923), (246, 932), (254, 971), (265, 992), (295, 1076), (305, 1130), (306, 1148), (Start: 313 @1175 has 1 MA's), (331, 1259), (345, 1310), (350, 1331), (370, 1412), (401, 1490), (456, 1616), (468, 1670), (472, 1685), (475, 1691), (479, 1700), (494, 1757), (497, 1769), (533, 1907), (539, 1943), (545, 1955), (549, 1961), (558, 1979), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627, 2207), (632, 2222), (634, 2225), (641, 2240), (656, 2270), (658, 2273),

Gene: PotPie\_4 Start: 1762, Stop: 3438, Start Num: 101

Candidate Starts for PotPie\_4:

(Start: 101 @1762 has 80 MA's), (Start: 137 @1813 has 1 MA's), (147, 1834), (177, 1879), (189, 1921), (203, 1957), (224, 2023), (243, 2086), (250, 2119), (259, 2155), (265, 2164), (266, 2167), (278, 2215), (283, 2227), (305, 2314), (347, 2494), (362, 2548), (406, 2728), (412, 2761), (455, 2827), (466, 2893), (468, 2899), (498, 2983), (523, 3064), (531, 3097), (558, 3166), (599, 3244), (625, 3343), (632, 3364), (635, 3370), (656, 3424), (658, 3427),

Gene: PotatoChip\_12 Start: 6678, Stop: 8744, Start Num: 4

Candidate Starts for PotatoChip\_12:

(Start: 4 @6678 has 5 MA's), (7, 6735), (24, 6873), (29, 6903), (34, 6927), (79, 7044), (88, 7065), (Start: 105 @7089 has 2 MA's), (138, 7152), (149, 7176), (212, 7338), (214, 7353), (215, 7371), (216, 7374), (223, 7398), (225, 7416), (241, 7473), (242, 7476), (252, 7518), (262, 7545), (268, 7563), (274, 7590), (279, 7608), (281, 7611), (299, 7665), (317, 7749), (318, 7752), (322, 7773), (327, 7794), (345, 7866), (358, 7896), (367, 7947), (394, 8028), (404, 8061), (465, 8223), (502, 8325), (511, 8352), (514, 8361), (552, 8472), (591, 8535), (621, 8646), (624, 8655), (659, 8736),

Gene: PotatoSplit\_14 Start: 6957, Stop: 8657, Start Num: 65

Candidate Starts for PotatoSplit\_14:

(Start: 65 @6957 has 85 MA's), (94, 7005), (175, 7140), (238, 7332), (265, 7419), (Start: 313 @7617 has 1 MA's), (335, 7707), (356, 7770), (392, 7932), (464, 8130), (471, 8154), (472, 8157), (498, 8220), (505, 8241), (516, 8280), (545, 8376), (569, 8430), (594, 8466), (636, 8613), (656, 8643), (658, 8646),

Gene: Poushou\_3 Start: 1236, Stop: 2873, Start Num: 121

Candidate Starts for Poushou\_3:

(Start: 121 @1236 has 5 MA's), (132, 1260), (163, 1338), (186, 1404), (219, 1503), (224, 1521), (225, 1530), (227, 1536), (241, 1584), (243, 1590), (246, 1599), (255, 1641), (257, 1647), (259, 1650), (265, 1659), (288, 1737), (Start: 313 @1854 has 1 MA's), (317, 1866), (318, 1869), (319, 1878), (335, 1941), (357, 2013), (362, 2046), (391, 2124), (427, 2235), (456, 2280), (496, 2412), (498, 2418), (536, 2550), (545, 2589), (594, 2679), (603, 2706), (623, 2787), (627, 2802), (628, 2805), (634, 2814), (658, 2862),

Gene: Power\_12 Start: 7386, Stop: 9173, Start Num: 63

Candidate Starts for Power\_12:

(Start: 63 @7386 has 231 MA's), (128, 7494), (138, 7515), (173, 7623), (182, 7647), (219, 7758), (225, 7785), (263, 7905), (265, 7908), (299, 8016), (Start: 313 @8106 has 1 MA's), (319, 8130), (351, 8247), (357, 8262), (433, 8562), (502, 8748), (511, 8775), (516, 8796), (545, 8892), (636, 9129), (654, 9156), (656, 9159),

Gene: PowerRanger\_11 Start: 7306, Stop: 8994, Start Num: 62

Candidate Starts for PowerRanger\_11:

(Start: 62 @7306 has 371 MA's), (Start: 179 @7486 has 2 MA's), (213, 7570), (219, 7606), (225, 7633), (265, 7756), (299, 7864), (Start: 313 @7954 has 1 MA's), (319, 7978), (327, 8005), (337, 8053), (359, 8122), (379, 8209), (392, 8269), (472, 8494), (477, 8503), (481, 8515), (498, 8557), (505, 8578), (515, 8605), (545, 8713), (594, 8803), (621, 8908),

Gene: Powerpuff\_2 Start: 533, Stop: 2290, Start Num: 84

Candidate Starts for Powerpuff\_2:

(10, 242), (13, 251), (Start: 84 @533 has 42 MA's), (247, 905), (265, 962), (280, 1010), (305, 1100), (316, 1154), (344, 1274), (367, 1364), (418, 1526), (464, 1700), (545, 1955), (553, 1970), (576, 2024), (599, 2105), (620, 2189), (627, 2213),

Gene: Priamo\_15 Start: 7551, Stop: 9305, Start Num: 63

Candidate Starts for Priamo\_15:

(Start: 63 @7551 has 231 MA's), (173, 7782), (189, 7833), (203, 7869), (225, 7944), (265, 8067), (276, 8106), (299, 8175), (303, 8199), (304, 8202), (Start: 313 @8265 has 1 MA's), (319, 8289), (344, 8388), (345, 8391), (356, 8418), (357, 8421), (438, 8706), (468, 8793), (471, 8805), (498, 8868), (511, 8907), (516, 8928), (539, 9012), (545, 9024), (636, 9261), (654, 9288), (656, 9291),

Gene: Prinashel1\_10 Start: 6156, Stop: 7907, Start Num: 42

Candidate Starts for Prinashel1\_10:

(Start: 37 @6129 has 19 MA's), (Start: 42 @6156 has 30 MA's), (73, 6225), (140, 6339), (143, 6345), (203, 6477), (225, 6552), (226, 6555), (238, 6588), (248, 6621), (284, 6729), (291, 6753), (299, 6786), (Start: 313 @6861 has 1 MA's), (324, 6906), (342, 6984), (344, 6990), (359, 7035), (385, 7155), (395, 7188), (401, 7209), (464, 7383), (471, 7407), (472, 7410), (498, 7470), (502, 7482), (511, 7509), (516, 7530), (539, 7614), (545, 7626), (636, 7863), (658, 7896), (660, 7902),

Gene: Pringar\_35 Start: 10750, Stop: 12492, Start Num: 101

Candidate Starts for Pringar\_35:

(Start: 101 @10750 has 80 MA's), (175, 10867), (189, 10912), (206, 10978), (208, 10993), (215, 11026), (216, 11029), (221, 11044), (226, 11068), (227, 11071), (238, 11101), (244, 11122), (246, 11140), (249, 11149), (256, 11185), (265, 11200), (278, 11245), (296, 11287), (301, 11326), (305, 11338), (307, 11359), (320, 11410), (327, 11431), (388, 11653), (412, 11758), (414, 11767), (447,

11800), (455, 11821), (456, 11824), (460, 11851), (464, 11881), (468, 11893), (472, 11908), (477, 11917), (479, 11923), (493, 11965), (495, 11974), (500, 11989), (505, 12004), (523, 12064), (531, 12103), (540, 12136), (556, 12166), (557, 12169), (583, 12253), (599, 12307), (604, 12322), (612, 12349), (624, 12403), (654, 12475), (656, 12478),

Gene: Priscilla\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Priscilla\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Priya\_13 Start: 8140, Stop: 9927, Start Num: 63

Candidate Starts for Priya\_13:

(Start: 63 @8140 has 231 MA's), (Start: 75 @8155 has 21 MA's), (Start: 80 @8161 has 5 MA's), (143, 8272), (173, 8371), (225, 8533), (248, 8605), (265, 8659), (276, 8698), (299, 8770), (Start: 313 @8860 has 1 MA's), (319, 8884), (351, 9001), (357, 9016), (382, 9124), (400, 9199), (408, 9235), (423, 9295), (468, 9415), (475, 9436), (494, 9475), (511, 9529), (512, 9532), (516, 9550), (531, 9604), (539, 9634), (545, 9646), (594, 9736), (600, 9754), (636, 9883), (654, 9910), (656, 9913),

Gene: ProMouse\_10 Start: 7442, Stop: 9130, Start Num: 62

Candidate Starts for ProMouse\_10:

(Start: 62 @7442 has 371 MA's), (Start: 179 @7622 has 2 MA's), (213, 7706), (216, 7733), (219, 7742), (225, 7769), (265, 7892), (299, 8000), (Start: 313 @8090 has 1 MA's), (319, 8114), (337, 8189), (359, 8258), (379, 8345), (382, 8354), (391, 8402), (392, 8405), (477, 8639), (481, 8651), (498, 8693), (505, 8714), (515, 8741), (545, 8849), (594, 8939), (621, 9044),

Gene: Provolone\_7 Start: 2219, Stop: 3874, Start Num: 57

Candidate Starts for Provolone\_7:

(Start: 57 @2219 has 2 MA's), (Start: 61 @2228 has 11 MA's), (Start: 64 @2231 has 1 MA's), (Start: 75 @2246 has 21 MA's), (Start: 150 @2378 has 2 MA's), (189, 2450), (203, 2486), (Start: 218 @2531 has 2 MA's), (246, 2624), (250, 2639), (255, 2666), (259, 2675), (266, 2687), (296, 2774), (304, 2822), (Start: 313 @2870 has 1 MA's), (338, 2969), (351, 3008), (389, 3122), (395, 3143), (405, 3182), (441, 3263), (464, 3332), (466, 3338), (470, 3353), (494, 3416), (532, 3548), (545, 3590), (558, 3617), (563, 3635), (595, 3683), (624, 3791),

Gene: Prudy\_14 Start: 9237, Stop: 11024, Start Num: 63

Candidate Starts for Prudy\_14:

(Start: 63 @9237 has 231 MA's), (128, 9345), (138, 9366), (173, 9474), (189, 9525), (203, 9561), (225, 9636), (263, 9756), (265, 9759), (299, 9867), (Start: 313 @9957 has 1 MA's), (319, 9981), (357, 10113), (464, 10500), (498, 10587), (502, 10599), (511, 10626), (516, 10647), (545, 10743), (636, 10980), (654, 11007), (656, 11010), (658, 11013), (659, 11016),

Gene: PsychoKiller\_4 Start: 1113, Stop: 2792, Start Num: 101

Candidate Starts for PsychoKiller\_4:

(Start: 101 @1113 has 80 MA's), (Start: 137 @1164 has 1 MA's), (147, 1185), (Start: 148 @1188 has 2 MA's), (174, 1224), (177, 1230), (203, 1311), (224, 1377), (225, 1386), (246, 1458), (250, 1473), (259, 1509), (265, 1518), (278, 1569), (305, 1668), (316, 1722), (326, 1758), (362, 1902), (372, 1938), (383, 1977), (388, 2010), (401, 2058), (408, 2091), (412, 2115), (436, 2148), (455, 2181), (463, 2238), (466,

2247), (496, 2331), (523, 2418), (556, 2514), (596, 2586), (599, 2598), (632, 2718), (656, 2778), (658, 2781),

Gene: Puginator\_8 Start: 2746, Stop: 4392, Start Num: 59

Candidate Starts for Puginator\_8:

(Start: 59 @2746 has 85 MA's), (Start: 150 @2896 has 2 MA's), (213, 3016), (246, 3142), (255, 3184), (257, 3190), (266, 3205), (296, 3292), (307, 3364), (Start: 313 @3388 has 1 MA's), (338, 3487), (347, 3523), (357, 3541), (396, 3664), (405, 3700), (464, 3850), (470, 3871), (502, 3961), (511, 3988), (533, 4069), (545, 4108), (556, 4129), (563, 4153), (599, 4213), (624, 4309),

Gene: Pukovnik\_14 Start: 9110, Stop: 10888, Start Num: 63

Candidate Starts for Pukovnik\_14:

(Start: 63 @9110 has 231 MA's), (Start: 80 @9128 has 5 MA's), (143, 9239), (Start: 148 @9251 has 2 MA's), (159, 9293), (162, 9305), (165, 9314), (173, 9338), (203, 9425), (263, 9620), (265, 9623), (276, 9662), (299, 9731), (Start: 313 @9821 has 1 MA's), (319, 9845), (357, 9977), (433, 10277), (464, 10364), (494, 10436), (502, 10463), (511, 10490), (512, 10493), (516, 10511), (545, 10607), (636, 10844), (656, 10874),

Gene: Pumbaa\_11 Start: 6859, Stop: 8556, Start Num: 62

Candidate Starts for Pumbaa\_11:

(Start: 62 @6859 has 371 MA's), (Start: 81 @6883 has 1 MA's), (Start: 148 @7006 has 2 MA's), (196, 7096), (213, 7129), (238, 7228), (263, 7312), (265, 7315), (276, 7354), (299, 7423), (303, 7447), (Start: 313 @7513 has 1 MA's), (335, 7603), (379, 7768), (401, 7855), (408, 7888), (438, 7954), (463, 8026), (464, 8029), (471, 8053), (494, 8104), (498, 8119), (511, 8158), (516, 8179), (545, 8275), (636, 8512), (656, 8542), (658, 8545),

Gene: Pumpkins\_2 Start: 547, Stop: 2244, Start Num: 84

Candidate Starts for Pumpkins\_2:

(Start: 84 @547 has 42 MA's), (Start: 137 @634 has 1 MA's), (247, 919), (265, 976), (276, 1018), (305, 1114), (316, 1168), (344, 1288), (367, 1378), (464, 1663), (502, 1774), (523, 1843), (545, 1918), (553, 1933), (599, 2059), (620, 2143), (627, 2167),

Gene: Puppet\_11 Start: 7062, Stop: 8750, Start Num: 62

Candidate Starts for Puppet\_11:

(Start: 62 @7062 has 371 MA's), (213, 7326), (215, 7350), (265, 7512), (274, 7545), (299, 7620), (Start: 313 @7710 has 1 MA's), (319, 7734), (327, 7761), (337, 7809), (359, 7878), (375, 7953), (379, 7965), (392, 8025), (477, 8259), (481, 8271), (498, 8313), (505, 8334), (515, 8361), (545, 8469), (594, 8559), (621, 8664),

Gene: Puppy\_12 Start: 6115, Stop: 7812, Start Num: 62

Candidate Starts for Puppy\_12:

(Start: 62 @6115 has 371 MA's), (Start: 81 @6139 has 1 MA's), (109, 6187), (213, 6385), (225, 6448), (257, 6559), (265, 6571), (276, 6610), (283, 6622), (299, 6679), (303, 6703), (Start: 313 @6769 has 1 MA's), (316, 6778), (335, 6859), (342, 6886), (379, 7024), (401, 7111), (408, 7144), (438, 7210), (464, 7285), (471, 7309), (472, 7312), (475, 7318), (479, 7327), (494, 7360), (498, 7375), (516, 7435), (545, 7531), (563, 7576), (569, 7585), (625, 7738), (636, 7768), (656, 7798), (658, 7801),

Gene: PurpleHaze\_13 Start: 7028, Stop: 8728, Start Num: 65

Candidate Starts for PurpleHaze\_13:

(Start: 65 @7028 has 85 MA's), (94, 7076), (Start: 137 @7148 has 1 MA's), (175, 7211), (265, 7490), (Start: 313 @7688 has 1 MA's), (335, 7778), (356, 7841), (392, 8003), (464, 8201), (471, 8225), (472, 8228), (498, 8291), (502, 8303), (505, 8312), (511, 8330), (516, 8351), (545, 8447), (569, 8501), (594, 8537), (636, 8684), (656, 8714), (658, 8717),

Gene: Pytheas\_2 Start: 485, Stop: 2284, Start Num: 70

Candidate Starts for Pytheas\_2:

(Start: 70 @485 has 45 MA's), (145, 623), (201, 782), (203, 797), (228, 881), (239, 911), (243, 923), (246, 932), (254, 971), (265, 992), (295, 1076), (306, 1148), (316, 1184), (325, 1220), (345, 1310), (350, 1331), (362, 1382), (371, 1415), (439, 1589), (456, 1616), (464, 1658), (472, 1685), (475, 1691), (494, 1757), (497, 1769), (506, 1796), (533, 1907), (539, 1943), (545, 1955), (558, 1979), (569, 2006), (578, 2030), (598, 2093), (609, 2135), (623, 2192), (627, 2207), (632, 2222), (634, 2225), (641, 2240), (656, 2270), (658, 2273),

Gene: QTRLifeCrisis\_11 Start: 7447, Stop: 9135, Start Num: 62

Candidate Starts for QTRLifeCrisis\_11:

(Start: 62 @7447 has 371 MA's), (213, 7711), (219, 7747), (265, 7897), (299, 8005), (Start: 313 @8095 has 1 MA's), (319, 8119), (337, 8194), (359, 8263), (379, 8350), (392, 8410), (472, 8635), (477, 8644), (481, 8656), (498, 8698), (505, 8719), (515, 8746), (545, 8854), (594, 8944), (621, 9049),

Gene: Qobbit\_13 Start: 8160, Stop: 9926, Start Num: 80

Candidate Starts for Qobbit\_13:

(Start: 63 @8139 has 231 MA's), (Start: 75 @8154 has 21 MA's), (Start: 80 @8160 has 5 MA's), (143, 8271), (173, 8370), (225, 8532), (248, 8604), (265, 8658), (276, 8697), (299, 8769), (Start: 313 @8859 has 1 MA's), (319, 8883), (351, 9000), (357, 9015), (382, 9123), (400, 9198), (408, 9234), (423, 9294), (468, 9414), (475, 9435), (494, 9474), (511, 9528), (512, 9531), (516, 9549), (531, 9603), (539, 9633), (545, 9645), (594, 9735), (600, 9753), (636, 9882), (654, 9909), (656, 9912),

Gene: Quasar\_4 Start: 1734, Stop: 3413, Start Num: 101

Candidate Starts for Quasar\_4:

(Start: 101 @1734 has 80 MA's), (Start: 137 @1785 has 1 MA's), (147, 1806), (177, 1851), (203, 1932), (224, 1998), (225, 2007), (246, 2079), (250, 2094), (259, 2130), (265, 2139), (278, 2190), (305, 2289), (316, 2343), (326, 2379), (362, 2523), (372, 2559), (383, 2598), (388, 2631), (401, 2679), (408, 2712), (412, 2736), (436, 2769), (455, 2802), (463, 2859), (466, 2868), (496, 2952), (523, 3039), (556, 3135), (596, 3207), (599, 3219), (632, 3339), (656, 3399), (658, 3402),

Gene: QueenB2\_12 Start: 7454, Stop: 9241, Start Num: 63

Candidate Starts for QueenB2\_12:

(Start: 63 @7454 has 231 MA's), (128, 7562), (138, 7583), (173, 7691), (225, 7853), (265, 7976), (299, 8084), (Start: 313 @8174 has 1 MA's), (319, 8198), (351, 8315), (357, 8330), (433, 8630), (502, 8816), (511, 8843), (516, 8864), (545, 8960), (636, 9197), (654, 9224), (656, 9227),

Gene: QueenBeesly\_12 Start: 7386, Stop: 9173, Start Num: 63

Candidate Starts for QueenBeesly\_12:

(Start: 63 @7386 has 231 MA's), (128, 7494), (138, 7515), (173, 7623), (225, 7785), (263, 7905), (265, 7908), (299, 8016), (Start: 313 @8106 has 1 MA's), (319, 8130), (351, 8247), (357, 8262), (433, 8562), (502, 8748), (511, 8775), (516, 8796), (545, 8892), (636, 9129), (654, 9156), (656, 9159),

Gene: QuickMath\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for QuickMath\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611,

2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: QuinnKiro\_11 Start: 7044, Stop: 8741, Start Num: 62

Candidate Starts for QuinnKiro\_11:

(Start: 62 @7044 has 371 MA's), (Start: 81 @7068 has 1 MA's), (213, 7314), (257, 7488), (265, 7500), (276, 7539), (283, 7551), (299, 7608), (303, 7632), (Start: 313 @7698 has 1 MA's), (316, 7707), (335, 7788), (344, 7821), (379, 7953), (383, 7965), (395, 8019), (401, 8040), (408, 8073), (432, 8127), (464, 8214), (471, 8238), (472, 8241), (475, 8247), (479, 8256), (498, 8304), (511, 8343), (512, 8346), (516, 8364), (545, 8460), (569, 8514), (625, 8667), (636, 8697), (656, 8727), (658, 8730),

Gene: Quokka\_10 Start: 6379, Stop: 8160, Start Num: 63

Candidate Starts for Quokka\_10:

(Start: 63 @6379 has 231 MA's), (Start: 148 @6523 has 2 MA's), (160, 6568), (173, 6610), (182, 6634), (203, 6697), (221, 6751), (263, 6892), (265, 6895), (276, 6934), (299, 7003), (Start: 313 @7093 has 1 MA's), (319, 7117), (356, 7246), (357, 7249), (421, 7522), (511, 7762), (516, 7783), (539, 7867), (545, 7879), (636, 8116), (654, 8143), (656, 8146), (658, 8149),

Gene: R4\_6 Start: 2205, Stop: 3866, Start Num: 59

Candidate Starts for R4\_6:

(Start: 59 @2205 has 85 MA's), (186, 2427), (Start: 218 @2523 has 2 MA's), (246, 2616), (250, 2631), (255, 2658), (266, 2679), (296, 2766), (Start: 313 @2862 has 1 MA's), (321, 2895), (335, 2949), (344, 2982), (353, 3006), (368, 3075), (396, 3138), (397, 3144), (405, 3174), (444, 3258), (463, 3321), (464, 3324), (468, 3336), (470, 3345), (473, 3354), (494, 3408), (502, 3435), (545, 3582), (556, 3603), (563, 3627), (599, 3687), (624, 3783), (660, 3861),

Gene: RADical\_5 Start: 1114, Stop: 2793, Start Num: 101

Candidate Starts for RADical\_5:

(Start: 101 @1114 has 80 MA's), (Start: 137 @1165 has 1 MA's), (147, 1186), (Start: 148 @1189 has 2 MA's), (177, 1231), (203, 1312), (224, 1378), (225, 1387), (246, 1459), (250, 1474), (259, 1510), (265, 1519), (278, 1570), (305, 1669), (316, 1723), (362, 1903), (372, 1939), (383, 1978), (388, 2011), (401, 2059), (408, 2092), (412, 2116), (436, 2149), (455, 2182), (463, 2239), (466, 2248), (496, 2332), (505, 2359), (523, 2419), (556, 2515), (596, 2587), (599, 2599), (632, 2719), (656, 2779), (658, 2782),

Gene: RER2\_1 Start: 28, Stop: 1710, Start Num: 66

Candidate Starts for RER2\_1:

(Start: 66 @28 has 35 MA's), (Start: 179 @214 has 2 MA's), (203, 286), (213, 298), (215, 322), (219, 334), (265, 487), (269, 502), (291, 562), (Start: 313 @670 has 1 MA's), (327, 727), (377, 925), (383, 943), (395, 997), (456, 1141), (463, 1180), (464, 1183), (475, 1216), (502, 1285), (545, 1429), (563, 1474), (599, 1534), (624, 1633), (636, 1666), (654, 1693), (656, 1696), (658, 1699),

Gene: RGL3\_1 Start: 361, Stop: 1710, Start Num: 225

Candidate Starts for RGL3\_1:

(Start: 58 @19 has 3 MA's), (Start: 66 @28 has 35 MA's), (203, 286), (213, 298), (225, 361), (269, 502), (291, 562), (303, 619), (304, 622), (Start: 313 @670 has 1 MA's), (344, 799), (395, 997), (397, 1006), (401, 1018), (443, 1111), (464, 1183), (498, 1273), (502, 1285), (511, 1312), (523, 1354), (545, 1429), (563, 1474), (599, 1534), (636, 1666), (656, 1696),

Gene: RSchmailzl\_5 Start: 1254, Stop: 2933, Start Num: 101

Candidate Starts for RSchmailzl\_5:

(Start: 101 @1254 has 80 MA's), (Start: 137 @1305 has 1 MA's), (147, 1326), (177, 1371), (189, 1413), (203, 1452), (216, 1491), (224, 1518), (225, 1527), (246, 1599), (250, 1614), (259, 1650), (265, 1659), (278, 1710), (305, 1809), (316, 1863), (326, 1899), (362, 2043), (372, 2079), (383, 2118), (388, 2151), (401, 2199), (408, 2232), (412, 2256), (436, 2289), (455, 2322), (463, 2379), (466, 2388), (496, 2472),

(505, 2499), (523, 2559), (556, 2655), (596, 2727), (599, 2739), (632, 2859), (656, 2919), (658, 2922),

Gene: Rachaly\_15 Start: 9139, Stop: 10920, Start Num: 63

Candidate Starts for Rachaly\_15:

(30, 9019), (49, 9112), (Start: 63 @9139 has 231 MA's), (143, 9271), (165, 9346), (173, 9370), (189, 9421), (263, 9652), (265, 9655), (276, 9694), (299, 9763), (Start: 313 @9853 has 1 MA's), (319, 9877), (344, 9976), (356, 10006), (357, 10009), (494, 10468), (498, 10483), (502, 10495), (511, 10522), (516, 10543), (545, 10639), (636, 10876), (654, 10903), (656, 10906),

Gene: Radiance\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Radiance\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Raela\_35 Start: 10993, Stop: 12735, Start Num: 101

Candidate Starts for Raela\_35:

(Start: 101 @10993 has 80 MA's), (175, 11110), (189, 11155), (206, 11221), (208, 11236), (215, 11269), (216, 11272), (221, 11287), (226, 11311), (227, 11314), (238, 11344), (244, 11365), (246, 11383), (249, 11392), (256, 11428), (265, 11443), (278, 11488), (296, 11530), (301, 11569), (305, 11581), (307, 11602), (320, 11653), (327, 11674), (388, 11896), (412, 12001), (414, 12010), (447, 12043), (455, 12064), (456, 12067), (460, 12094), (464, 12124), (468, 12136), (472, 12151), (477, 12160), (479, 12166), (493, 12208), (495, 12217), (500, 12232), (505, 12247), (523, 12307), (531, 12346), (540, 12379), (556, 12409), (557, 12412), (583, 12496), (599, 12550), (604, 12565), (612, 12592), (624, 12646), (654, 12718), (656, 12721),

Gene: Rahalelujah\_11 Start: 6185, Stop: 7972, Start Num: 63

Candidate Starts for Rahalelujah\_11:

(Start: 63 @6185 has 231 MA's), (143, 6314), (173, 6413), (225, 6575), (234, 6608), (248, 6647), (265, 6701), (276, 6740), (299, 6812), (Start: 313 @6902 has 1 MA's), (319, 6926), (351, 7043), (357, 7058), (382, 7166), (400, 7241), (424, 7340), (444, 7373), (468, 7457), (475, 7478), (494, 7520), (498, 7535), (502, 7547), (511, 7574), (516, 7595), (531, 7649), (545, 7691), (594, 7781), (600, 7799), (615, 7850), (636, 7928), (654, 7955), (656, 7958),

Gene: Raid\_12 Start: 6738, Stop: 8426, Start Num: 62

Candidate Starts for Raid\_12:

(Start: 62 @6738 has 371 MA's), (213, 7002), (215, 7026), (265, 7188), (299, 7296), (Start: 313 @7386 has 1 MA's), (319, 7410), (327, 7437), (337, 7485), (375, 7629), (379, 7641), (392, 7701), (472, 7926), (477, 7935), (481, 7947), (498, 7989), (505, 8010), (515, 8037), (545, 8145), (594, 8235), (621, 8340),

Gene: Rajelicia\_11 Start: 6954, Stop: 8642, Start Num: 62

Candidate Starts for Rajelicia\_11:

(Start: 62 @6954 has 371 MA's), (213, 7218), (215, 7242), (265, 7404), (274, 7437), (299, 7512), (Start: 313 @7602 has 1 MA's), (319, 7626), (327, 7653), (337, 7701), (375, 7845), (379, 7857), (392, 7917), (472, 8142), (477, 8151), (481, 8163), (498, 8205), (505, 8226), (515, 8253), (545, 8361), (594, 8451), (621, 8556),

Gene: Rana\_6 Start: 2374, Stop: 4020, Start Num: 59

Candidate Starts for Rana\_6:

(Start: 59 @2374 has 85 MA's), (Start: 75 @2392 has 21 MA's), (189, 2596), (203, 2632), (255, 2812), (266, 2833), (282, 2878), (296, 2920), (307, 2992), (Start: 313 @3016 has 1 MA's), (338, 3115), (342, 3130), (351, 3154), (353, 3160), (405, 3328), (464, 3478), (470, 3499), (502, 3589), (533, 3697), (545, 3736), (556, 3757), (558, 3763), (563, 3781), (624, 3937), (660, 4015),

Gene: RanchParmCat\_7 Start: 1862, Stop: 3562, Start Num: 99

Candidate Starts for RanchParmCat\_7:

(Start: 99 @1862 has 202 MA's), (Start: 137 @1916 has 1 MA's), (147, 1937), (157, 1964), (192, 2039), (203, 2075), (226, 2153), (250, 2237), (252, 2252), (265, 2282), (278, 2333), (305, 2432), (326, 2522), (347, 2612), (362, 2666), (383, 2741), (412, 2879), (453, 2939), (455, 2945), (466, 3011), (468, 3017), (498, 3101), (505, 3122), (523, 3182), (524, 3188), (533, 3221), (587, 3326), (596, 3350), (623, 3455), (624, 3458), (638, 3503), (656, 3548), (658, 3551),

Gene: Rasputin\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Rasputin\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Ravana\_15 Start: 6654, Stop: 8351, Start Num: 63

Candidate Starts for Ravana\_15:

(Start: 63 @6654 has 231 MA's), (78, 6672), (175, 6834), (248, 7059), (265, 7113), (299, 7221), (304, 7248), (Start: 313 @7311 has 1 MA's), (319, 7335), (471, 7851), (498, 7914), (512, 7956), (545, 8070), (599, 8175), (636, 8307), (654, 8334), (656, 8337), (658, 8340),

Gene: ReMo\_14 Start: 6686, Stop: 8383, Start Num: 63

Candidate Starts for ReMo\_14:

(Start: 63 @6686 has 231 MA's), (78, 6704), (175, 6866), (225, 7022), (248, 7091), (265, 7145), (299, 7253), (304, 7280), (Start: 313 @7343 has 1 MA's), (319, 7367), (471, 7883), (498, 7946), (512, 7988), (545, 8102), (599, 8207), (636, 8339), (654, 8366), (656, 8369), (658, 8372),

Gene: Reba\_14 Start: 6700, Stop: 8400, Start Num: 65

Candidate Starts for Reba\_14:

(Start: 65 @6700 has 85 MA's), (94, 6748), (175, 6883), (265, 7162), (Start: 313 @7360 has 1 MA's), (335, 7450), (356, 7513), (392, 7675), (464, 7873), (471, 7897), (472, 7900), (498, 7963), (502, 7975), (505, 7984), (511, 8002), (516, 8023), (545, 8119), (569, 8173), (594, 8209), (636, 8356), (656, 8386), (658, 8389),

Gene: Rebeuca\_12 Start: 6881, Stop: 8557, Start Num: 62

Candidate Starts for Rebeuca\_12:

(Start: 62 @6881 has 371 MA's), (Start: 148 @7013 has 2 MA's), (213, 7145), (222, 7190), (250, 7286), (265, 7331), (276, 7370), (296, 7418), (299, 7439), (303, 7463), (Start: 313 @7514 has 1 MA's), (344, 7637), (379, 7769), (397, 7844), (408, 7889), (438, 7955), (464, 8030), (471, 8054), (472, 8057), (498, 8120), (511, 8159), (512, 8162), (516, 8180), (545, 8276), (576, 8345), (636, 8513), (656, 8543), (658, 8546),

Gene: RedBaron\_5 Start: 1158, Stop: 2837, Start Num: 101

Candidate Starts for RedBaron\_5:

(Start: 101 @1158 has 80 MA's), (Start: 137 @1209 has 1 MA's), (147, 1230), (Start: 148 @1233 has 2 MA's), (177, 1275), (203, 1356), (224, 1422), (225, 1431), (246, 1503), (250, 1518), (259, 1554), (265, 1563), (278, 1614), (305, 1713), (316, 1767), (326, 1803), (362, 1947), (372, 1983), (383, 2022), (388,

2055), (401, 2103), (408, 2136), (412, 2160), (436, 2193), (455, 2226), (463, 2283), (466, 2292), (496, 2376), (523, 2463), (556, 2559), (596, 2631), (599, 2643), (632, 2763), (656, 2823), (658, 2826),

Gene: RedBear\_8 Start: 2648, Stop: 4294, Start Num: 59

Candidate Starts for RedBear\_8:

(Start: 59 @2648 has 85 MA's), (Start: 75 @2666 has 21 MA's), (189, 2870), (Start: 218 @2951 has 2 MA's), (255, 3086), (266, 3107), (282, 3152), (296, 3194), (307, 3266), (Start: 313 @3290 has 1 MA's), (338, 3389), (357, 3443), (367, 3500), (405, 3602), (425, 3662), (447, 3689), (470, 3773), (475, 3785), (502, 3863), (513, 3896), (533, 3971), (545, 4010), (556, 4031), (558, 4037), (563, 4055), (609, 4151), (624, 4211),

Gene: RedBird\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for RedBird\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: RedRaider\_31 Start: 15061, Stop: 16740, Start Num: 99

Candidate Starts for RedRaider\_31:

(Start: 99 @15061 has 202 MA's), (184, 15211), (200, 15268), (207, 15295), (212, 15307), (219, 15346), (225, 15379), (241, 15436), (317, 15721), (323, 15748), (367, 15916), (371, 15928), (380, 15961), (405, 16039), (454, 16141), (488, 16255), (498, 16312), (506, 16336), (511, 16351), (523, 16393), (531, 16426), (547, 16459), (567, 16507), (591, 16534), (611, 16603), (612, 16606), (629, 16675),

Gene: RedRaider77\_35 Start: 10894, Stop: 12636, Start Num: 101

Candidate Starts for RedRaider77\_35:

(Start: 101 @10894 has 80 MA's), (175, 11011), (189, 11056), (206, 11122), (208, 11137), (215, 11170), (216, 11173), (221, 11188), (226, 11212), (227, 11215), (238, 11245), (244, 11266), (246, 11284), (249, 11293), (256, 11329), (265, 11344), (278, 11389), (296, 11431), (301, 11470), (305, 11482), (307, 11503), (320, 11554), (327, 11575), (388, 11797), (412, 11902), (414, 11911), (447, 11944), (455, 11965), (456, 11968), (460, 11995), (464, 12025), (468, 12037), (472, 12052), (477, 12061), (479, 12067), (493, 12109), (495, 12118), (500, 12133), (505, 12148), (523, 12208), (531, 12247), (540, 12280), (556, 12310), (557, 12313), (583, 12397), (599, 12451), (604, 12466), (612, 12493), (624, 12547), (654, 12619), (656, 12622),

Gene: RedRock\_15 Start: 9396, Stop: 11156, Start Num: 63

Candidate Starts for RedRock\_15:

(35, 9312), (Start: 63 @9396 has 231 MA's), (128, 9504), (138, 9525), (165, 9609), (173, 9633), (182, 9657), (203, 9720), (221, 9774), (248, 9864), (265, 9918), (299, 10026), (Start: 313 @10116 has 1 MA's), (319, 10140), (357, 10272), (389, 10416), (396, 10440), (433, 10548), (464, 10632), (494, 10704), (498, 10719), (511, 10758), (512, 10761), (516, 10779), (545, 10875), (576, 10944), (636, 11112), (654, 11139), (656, 11142), (658, 11145), (659, 11148),

Gene: Reedo\_2 Start: 544, Stop: 2244, Start Num: 87

Candidate Starts for Reedo\_2:

(Start: 87 @544 has 7 MA's), (126, 607), (247, 913), (265, 970), (280, 1018), (305, 1108), (316, 1162), (326, 1207), (344, 1282), (418, 1534), (449, 1591), (464, 1654), (509, 1786), (533, 1873), (545, 1909),

(553, 1924), (559, 1942), (624, 2155), (627, 2167),

Gene: Refuge\_15 Start: 9750, Stop: 11534, Start Num: 63

Candidate Starts for Refuge\_15:

(Start: 63 @9750 has 231 MA's), (Start: 137 @9870 has 1 MA's), (143, 9882), (162, 9948), (173, 9981), (203, 10068), (248, 10212), (265, 10266), (276, 10305), (299, 10377), (Start: 313 @10467 has 1 MA's), (319, 10491), (344, 10590), (351, 10608), (357, 10623), (389, 10767), (414, 10875), (464, 11010), (494, 11082), (498, 11097), (516, 11157), (545, 11253), (594, 11343), (625, 11460), (635, 11487), (636, 11490), (654, 11517), (656, 11520), (658, 11523),

Gene: Relief\_11 Start: 6885, Stop: 8582, Start Num: 62

Candidate Starts for Relief\_11:

(Start: 62 @6885 has 371 MA's), (Start: 81 @6909 has 1 MA's), (Start: 148 @7032 has 2 MA's), (196, 7122), (213, 7155), (238, 7254), (263, 7338), (265, 7341), (276, 7380), (299, 7449), (303, 7473), (Start: 313 @7539 has 1 MA's), (335, 7629), (379, 7794), (401, 7881), (408, 7914), (438, 7980), (463, 8052), (464, 8055), (471, 8079), (494, 8130), (498, 8145), (511, 8184), (516, 8205), (545, 8301), (636, 8538), (656, 8568), (658, 8571),

Gene: Remus\_14 Start: 6647, Stop: 8344, Start Num: 63

Candidate Starts for Remus\_14:

(Start: 63 @6647 has 231 MA's), (78, 6665), (175, 6827), (248, 7052), (265, 7106), (299, 7214), (304, 7241), (Start: 313 @7304 has 1 MA's), (319, 7328), (471, 7844), (498, 7907), (512, 7949), (545, 8063), (599, 8168), (636, 8300), (654, 8327), (656, 8330), (658, 8333),

Gene: Renaud18\_2 Start: 458, Stop: 2236, Start Num: 70

Candidate Starts for Renaud18\_2:

(Start: 70 @458 has 45 MA's), (104, 509), (117, 530), (130, 560), (Start: 134 @566 has 1 MA's), (142, 581), (165, 632), (187, 695), (189, 707), (203, 743), (219, 791), (223, 806), (225, 818), (227, 824), (245, 881), (246, 884), (248, 890), (251, 905), (254, 923), (255, 926), (265, 944), (305, 1085), (306, 1103), (Start: 313 @1130 has 1 MA's), (319, 1154), (326, 1187), (345, 1265), (367, 1355), (370, 1364), (374, 1379), (395, 1421), (396, 1424), (406, 1466), (408, 1475), (412, 1499), (439, 1541), (442, 1544), (456, 1568), (463, 1607), (464, 1610), (469, 1625), (475, 1643), (477, 1646), (501, 1727), (506, 1742), (507, 1745), (511, 1757), (519, 1796), (531, 1847), (533, 1853), (539, 1889), (545, 1901), (558, 1925), (569, 1952), (573, 1961), (575, 1964), (595, 2036), (609, 2084), (612, 2090), (618, 2123), (619, 2129), (621, 2135), (623, 2141), (624, 2144), (627, 2156), (634, 2174), (643, 2195), (652, 2213), (658, 2225),

Gene: ResDef\_12 Start: 7044, Stop: 8741, Start Num: 62

Candidate Starts for ResDef\_12:

(Start: 62 @7044 has 371 MA's), (Start: 81 @7068 has 1 MA's), (213, 7314), (257, 7488), (265, 7500), (276, 7539), (283, 7551), (299, 7608), (303, 7632), (Start: 313 @7698 has 1 MA's), (316, 7707), (335, 7788), (344, 7821), (379, 7953), (383, 7965), (395, 8019), (401, 8040), (408, 8073), (432, 8127), (464, 8214), (471, 8238), (472, 8241), (475, 8247), (479, 8256), (498, 8304), (511, 8343), (512, 8346), (516, 8364), (545, 8460), (569, 8514), (625, 8667), (636, 8697), (656, 8727), (658, 8730),

Gene: Retro23\_12 Start: 7537, Stop: 9324, Start Num: 63

Candidate Starts for Retro23\_12:

(Start: 63 @7537 has 231 MA's), (128, 7645), (138, 7666), (173, 7774), (225, 7936), (263, 8056), (265, 8059), (299, 8167), (Start: 313 @8257 has 1 MA's), (319, 8281), (351, 8398), (357, 8413), (433, 8713), (502, 8899), (511, 8926), (516, 8947), (545, 9043), (636, 9280), (654, 9307), (656, 9310),

Gene: RexFury\_8 Start: 3187, Stop: 4869, Start Num: 66

Candidate Starts for RexFury\_8:

(Start: 66 @3187 has 35 MA's), (Start: 179 @3373 has 2 MA's), (203, 3445), (213, 3457), (215, 3481), (219, 3493), (265, 3646), (269, 3661), (291, 3721), (Start: 313 @3829 has 1 MA's), (327, 3886), (377, 4084), (383, 4102), (395, 4156), (456, 4300), (464, 4342), (475, 4375), (502, 4444), (545, 4588), (563, 4633), (599, 4693), (624, 4792), (636, 4825), (654, 4852), (656, 4855), (658, 4858),

Gene: Rhodalya\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Rhodalya\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (463, 4308), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: RhynO\_12 Start: 6844, Stop: 8535, Start Num: 62

Candidate Starts for RhynO\_12:

(Start: 62 @6844 has 371 MA's), (Start: 81 @6868 has 1 MA's), (Start: 148 @6991 has 2 MA's), (185, 7057), (203, 7111), (213, 7123), (222, 7168), (238, 7222), (246, 7249), (250, 7264), (265, 7309), (276, 7348), (296, 7396), (299, 7417), (303, 7441), (Start: 313 @7492 has 1 MA's), (344, 7615), (384, 7762), (397, 7822), (408, 7867), (438, 7933), (464, 8008), (471, 8032), (498, 8098), (516, 8158), (545, 8254), (569, 8308), (636, 8491), (656, 8521), (658, 8524),

Gene: Rhynn\_11 Start: 7048, Stop: 8736, Start Num: 62

Candidate Starts for Rhynn\_11:

(Start: 62 @7048 has 371 MA's), (213, 7312), (215, 7336), (265, 7498), (274, 7531), (299, 7606), (308, 7660), (Start: 313 @7696 has 1 MA's), (319, 7720), (327, 7747), (337, 7795), (359, 7864), (379, 7951), (392, 8011), (477, 8245), (481, 8257), (498, 8299), (505, 8320), (515, 8347), (545, 8455), (594, 8545), (621, 8650),

Gene: RidgeCB\_11 Start: 6575, Stop: 8263, Start Num: 62

Candidate Starts for RidgeCB\_11:

(Start: 62 @6575 has 371 MA's), (Start: 179 @6755 has 2 MA's), (213, 6839), (219, 6875), (225, 6902), (265, 7025), (299, 7133), (Start: 313 @7223 has 1 MA's), (319, 7247), (327, 7274), (337, 7322), (379, 7478), (392, 7538), (477, 7772), (481, 7784), (498, 7826), (505, 7847), (515, 7874), (545, 7982), (594, 8072), (621, 8177),

Gene: Rifter\_15 Start: 7506, Stop: 9260, Start Num: 63

Candidate Starts for Rifter\_15:

(Start: 63 @7506 has 231 MA's), (143, 7638), (173, 7737), (182, 7761), (189, 7788), (203, 7824), (225, 7899), (265, 8022), (269, 8037), (276, 8061), (299, 8130), (303, 8154), (304, 8157), (Start: 313 @8220 has 1 MA's), (319, 8244), (356, 8373), (357, 8376), (383, 8487), (432, 8649), (464, 8736), (468, 8748), (471, 8760), (494, 8808), (498, 8823), (516, 8883), (539, 8967), (545, 8979), (636, 9216), (654, 9243), (656, 9246),

Gene: Ringer\_11 Start: 7246, Stop: 8934, Start Num: 62

Candidate Starts for Ringer\_11:

(Start: 62 @7246 has 371 MA's), (Start: 179 @7426 has 2 MA's), (213, 7510), (219, 7546), (225, 7573), (265, 7696), (299, 7804), (Start: 313 @7894 has 1 MA's), (319, 7918), (327, 7945), (337, 7993), (379, 8149), (392, 8209), (472, 8434), (477, 8443), (481, 8455), (498, 8497), (505, 8518), (515, 8545), (545, 8653), (594, 8743), (621, 8848),

Gene: Rita\_2 Start: 588, Stop: 2225, Start Num: 99

Candidate Starts for Rita\_2:

(Start: 99 @588 has 202 MA's), (109, 603), (Start: 115 @612 has 3 MA's), (118, 618), (Start: 134 @645 has 1 MA's), (Start: 144 @669 has 2 MA's), (146, 672), (185, 735), (189, 753), (200, 774), (222, 861),

(223, 867), (233, 921), (241, 933), (245, 945), (248, 954), (249, 957), (252, 978), (258, 999), (267, 1014), (282, 1071), (296, 1110), (306, 1179), (309, 1185), (317, 1215), (318, 1218), (319, 1227), (323, 1242), (327, 1260), (338, 1311), (367, 1413), (417, 1584), (435, 1596), (450, 1614), (464, 1680), (474, 1710), (476, 1713), (478, 1716), (498, 1773), (503, 1788), (505, 1794), (506, 1797), (511, 1812), (514, 1821), (532, 1890), (543, 1920), (547, 1929), (560, 1962), (576, 1995), (593, 2022), (605, 2055), (611, 2082), (612, 2085), (617, 2106), (621, 2130), (624, 2139), (625, 2142), (650, 2199),

Gene: RitaG\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for RitaG\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Roary\_9 Start: 5668, Stop: 7422, Start Num: 42

Candidate Starts for Roary\_9:

(Start: 42 @5668 has 30 MA's), (Start: 54 @5710 has 7 MA's), (Start: 81 @5749 has 1 MA's), (143, 5857), (225, 6064), (291, 6265), (Start: 313 @6373 has 1 MA's), (344, 6502), (385, 6667), (395, 6700), (441, 6820), (464, 6895), (505, 7006), (511, 7024), (516, 7045), (531, 7099), (545, 7141), (576, 7210), (599, 7246), (624, 7345), (636, 7378), (658, 7411), (660, 7417),

Gene: RockScotty\_2 Start: 594, Stop: 2282, Start Num: 90

Candidate Starts for RockScotty\_2:

(Start: 90 @594 has 17 MA's), (243, 939), (250, 963), (265, 1008), (295, 1095), (305, 1149), (312, 1188), (344, 1323), (371, 1425), (453, 1647), (464, 1698), (533, 1917), (545, 1953), (553, 1968), (624, 2193), (627, 2205), (634, 2220), (658, 2271),

Gene: RockieBear\_10 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for RockieBear\_10:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Rockne\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Rockne\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (570, 1982), (576, 1994), (593, 2021), (605, 2054), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Rockstar\_11 Start: 6367, Stop: 8064, Start Num: 62

Candidate Starts for Rockstar\_11:

(Start: 62 @6367 has 371 MA's), (109, 6439), (213, 6637), (225, 6700), (257, 6811), (265, 6823), (283, 6874), (299, 6931), (303, 6955), (Start: 313 @7021 has 1 MA's), (316, 7030), (335, 7111), (342, 7138), (379, 7276), (395, 7342), (401, 7363), (408, 7396), (438, 7462), (464, 7537), (471, 7561), (472, 7564), (475, 7570), (479, 7579), (498, 7627), (511, 7666), (516, 7687), (545, 7783), (569, 7837), (625, 7990), (636, 8020), (656, 8050), (658, 8053),

Gene: Rohr\_12 Start: 7254, Stop: 8942, Start Num: 62

Candidate Starts for Rohr\_12:

(Start: 62 @7254 has 371 MA's), (Start: 179 @7434 has 2 MA's), (213, 7518), (219, 7554), (225, 7581), (265, 7704), (274, 7737), (299, 7812), (Start: 313 @7902 has 1 MA's), (319, 7926), (327, 7953), (337, 8001), (379, 8157), (392, 8217), (472, 8442), (477, 8451), (481, 8463), (498, 8505), (505, 8526), (515, 8553), (545, 8661), (594, 8751), (621, 8856),

Gene: Roimos\_11 Start: 6465, Stop: 8162, Start Num: 62

Candidate Starts for Roimos\_11:

(Start: 62 @6465 has 371 MA's), (109, 6537), (213, 6735), (257, 6909), (265, 6921), (276, 6960), (283, 6972), (299, 7029), (303, 7053), (Start: 313 @7119 has 1 MA's), (316, 7128), (335, 7209), (379, 7374), (395, 7440), (401, 7461), (408, 7494), (438, 7560), (464, 7635), (471, 7659), (472, 7662), (475, 7668), (479, 7677), (498, 7725), (516, 7785), (545, 7881), (563, 7926), (569, 7935), (625, 8088), (636, 8118), (656, 8148), (658, 8151),

Gene: Roksolana\_15 Start: 7533, Stop: 9287, Start Num: 63

Candidate Starts for Roksolana\_15:

(Start: 63 @7533 has 231 MA's), (143, 7665), (173, 7764), (182, 7788), (189, 7815), (203, 7851), (225, 7926), (265, 8049), (269, 8064), (276, 8088), (299, 8157), (303, 8181), (304, 8184), (Start: 313 @8247 has 1 MA's), (319, 8271), (356, 8400), (357, 8403), (383, 8514), (432, 8676), (464, 8763), (468, 8775), (471, 8787), (494, 8835), (498, 8850), (511, 8889), (516, 8910), (539, 8994), (545, 9006), (636, 9243), (654, 9270), (656, 9273),

Gene: Romney\_11 Start: 6883, Stop: 8580, Start Num: 62

Candidate Starts for Romney\_11:

(Start: 62 @6883 has 371 MA's), (Start: 81 @6907 has 1 MA's), (Start: 148 @7030 has 2 MA's), (196, 7120), (213, 7153), (238, 7252), (263, 7336), (265, 7339), (276, 7378), (299, 7447), (303, 7471), (Start: 313 @7537 has 1 MA's), (335, 7627), (379, 7792), (401, 7879), (408, 7912), (438, 7978), (463, 8050), (464, 8053), (471, 8077), (494, 8128), (498, 8143), (511, 8182), (516, 8203), (545, 8299), (636, 8536), (656, 8566), (658, 8569),

Gene: RonRayGun\_3 Start: 724, Stop: 2607, Start Num: 54

Candidate Starts for RonRayGun\_3:

(13, 475), (Start: 54 @724 has 7 MA's), (108, 805), (114, 814), (156, 910), (158, 922), (203, 1054), (249, 1201), (250, 1207), (255, 1234), (265, 1252), (286, 1315), (317, 1450), (362, 1651), (386, 1708), (466, 1927), (485, 1978), (490, 2002), (501, 2053), (534, 2182), (540, 2221), (545, 2230), (568, 2281), (580, 2320), (595, 2407), (599, 2419), (623, 2512), (627, 2527), (628, 2530),

Gene: Roosevelt\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Roosevelt\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Rosa24\_10 Start: 6859, Stop: 8556, Start Num: 62

Candidate Starts for Rosa24\_10:

(Start: 62 @6859 has 371 MA's), (Start: 81 @6883 has 1 MA's), (Start: 148 @7006 has 2 MA's), (196, 7096), (213, 7129), (263, 7312), (265, 7315), (276, 7354), (299, 7423), (303, 7447), (Start: 313 @7513 has 1 MA's), (335, 7603), (379, 7768), (401, 7855), (408, 7888), (438, 7954), (463, 8026), (464, 8029), (471, 8053), (494, 8104), (498, 8119), (511, 8158), (516, 8179), (545, 8275), (636, 8512), (656, 8542), (658, 8545),

Gene: Rosalind\_14 Start: 6808, Stop: 8505, Start Num: 63

Candidate Starts for Rosalind\_14:

(Start: 63 @6808 has 231 MA's), (78, 6826), (175, 6988), (225, 7144), (248, 7213), (265, 7267), (299, 7375), (304, 7402), (Start: 313 @7465 has 1 MA's), (319, 7489), (471, 8005), (498, 8068), (512, 8110), (545, 8224), (599, 8329), (636, 8461), (654, 8488), (656, 8491), (658, 8494),

Gene: Rowdy\_14 Start: 6755, Stop: 8446, Start Num: 62

Candidate Starts for Rowdy\_14:

(Start: 62 @6755 has 371 MA's), (Start: 81 @6779 has 1 MA's), (Start: 148 @6902 has 2 MA's), (185, 6968), (203, 7022), (213, 7034), (222, 7079), (238, 7133), (246, 7160), (250, 7175), (265, 7220), (276, 7259), (296, 7307), (299, 7328), (303, 7352), (Start: 313 @7403 has 1 MA's), (344, 7526), (384, 7673), (397, 7733), (408, 7778), (438, 7844), (464, 7919), (471, 7943), (498, 8009), (516, 8069), (545, 8165), (569, 8219), (636, 8402), (656, 8432), (658, 8435),

Gene: Royals2015\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Royals2015\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Rubeus\_12 Start: 7080, Stop: 8768, Start Num: 70

Candidate Starts for Rubeus\_12:

(Start: 70 @7080 has 45 MA's), (175, 7251), (Start: 179 @7260 has 2 MA's), (213, 7344), (216, 7371), (219, 7380), (265, 7530), (274, 7563), (299, 7638), (Start: 313 @7728 has 1 MA's), (319, 7752), (327, 7779), (337, 7827), (379, 7983), (392, 8043), (472, 8268), (477, 8277), (481, 8289), (498, 8331), (505, 8352), (515, 8379), (545, 8487), (594, 8577), (621, 8682),

Gene: Ruby\_2 Start: 573, Stop: 2210, Start Num: 99

Candidate Starts for Ruby\_2:

(Start: 99 @573 has 202 MA's), (Start: 105 @582 has 2 MA's), (Start: 115 @597 has 3 MA's), (Start: 127 @618 has 1 MA's), (Start: 144 @654 has 2 MA's), (146, 657), (153, 675), (185, 720), (200, 759), (222, 846), (233, 906), (245, 930), (248, 939), (249, 942), (252, 963), (258, 984), (267, 999), (282, 1056), (296, 1095), (306, 1164), (309, 1170), (317, 1200), (318, 1203), (319, 1212), (323, 1227), (327, 1245), (338, 1296), (364, 1389), (367, 1398), (417, 1569), (435, 1581), (464, 1665), (474, 1695), (476, 1698), (478, 1701), (498, 1758), (503, 1773), (505, 1779), (506, 1782), (511, 1797), (514, 1806), (532, 1875), (543, 1905), (547, 1914), (560, 1947), (576, 1980), (593, 2007), (605, 2040), (612, 2070), (617, 2091), (621, 2115), (624, 2124), (625, 2127), (650, 2184),

Gene: Rufus\_12 Start: 7137, Stop: 8825, Start Num: 70

Candidate Starts for Rufus\_12:

(Start: 70 @7137 has 45 MA's), (175, 7308), (Start: 179 @7317 has 2 MA's), (213, 7401), (216, 7428), (219, 7437), (265, 7587), (274, 7620), (299, 7695), (Start: 313 @7785 has 1 MA's), (319, 7809), (327, 7836), (337, 7884), (359, 7953), (375, 8028), (379, 8040), (392, 8100), (477, 8334), (481, 8346), (498, 8388), (505, 8409), (515, 8436), (545, 8544), (594, 8634), (621, 8739),

Gene: Ruin\_11 Start: 6883, Stop: 8580, Start Num: 62

Candidate Starts for Ruin\_11:

(Start: 62 @6883 has 371 MA's), (Start: 81 @6907 has 1 MA's), (Start: 148 @7030 has 2 MA's), (196, 7120), (213, 7153), (238, 7252), (263, 7336), (265, 7339), (276, 7378), (299, 7447), (303, 7471), (Start: 313 @7537 has 1 MA's), (335, 7627), (379, 7792), (401, 7879), (408, 7912), (438, 7978), (463, 8050), (464, 8053), (471, 8077), (494, 8128), (498, 8143), (511, 8182), (516, 8203), (545, 8299), (636, 8536), (656, 8566), (658, 8569),

Gene: Rummer\_13 Start: 7041, Stop: 8741, Start Num: 65

Candidate Starts for Rummer\_13:

(Start: 65 @7041 has 85 MA's), (94, 7089), (175, 7224), (238, 7416), (265, 7503), (Start: 313 @7701 has 1 MA's), (335, 7791), (356, 7854), (392, 8016), (464, 8214), (471, 8238), (472, 8241), (498, 8304), (505, 8325), (516, 8364), (545, 8460), (569, 8514), (594, 8550), (636, 8697), (656, 8727), (658, 8730),

Gene: RunningOnE\_64 Start: 28320, Stop: 29567, Start Num: 243

Candidate Starts for RunningOnE\_64:

(238, 28302), (243, 28320), (246, 28329), (248, 28335), (254, 28368), (265, 28389), (274, 28425), (284, 28446), (316, 28590), (402, 28878), (456, 28998), (464, 29040), (498, 29136), (515, 29184), (526, 29232), (556, 29295), (570, 29331), (607, 29403), (608, 29406), (621, 29478), (643, 29532), (656, 29556),

Gene: Ruotula\_10 Start: 7196, Stop: 8884, Start Num: 62

Candidate Starts for Ruotula\_10:

(Start: 62 @7196 has 371 MA's), (213, 7460), (215, 7484), (265, 7646), (274, 7679), (299, 7754), (Start: 313 @7844 has 1 MA's), (319, 7868), (327, 7895), (337, 7943), (359, 8012), (379, 8099), (392, 8159), (477, 8393), (481, 8405), (498, 8447), (505, 8468), (515, 8495), (545, 8603), (594, 8693), (621, 8798),

Gene: Rusticus\_7 Start: 2580, Stop: 4208, Start Num: 75

Candidate Starts for Rusticus\_7:

(Start: 59 @2562 has 85 MA's), (Start: 75 @2580 has 21 MA's), (189, 2784), (Start: 218 @2865 has 2 MA's), (255, 3000), (266, 3021), (282, 3066), (296, 3108), (307, 3180), (Start: 313 @3204 has 1 MA's), (335, 3291), (338, 3303), (357, 3357), (389, 3456), (405, 3516), (468, 3678), (470, 3687), (502, 3777), (513, 3810), (532, 3882), (533, 3885), (545, 3924), (556, 3945), (558, 3951), (563, 3969), (609, 4065), (624, 4125),

Gene: Rutherferd\_13 Start: 7598, Stop: 9286, Start Num: 70

Candidate Starts for Rutherferd\_13:

(Start: 70 @7598 has 45 MA's), (Start: 179 @7778 has 2 MA's), (213, 7862), (216, 7889), (219, 7898), (265, 8048), (274, 8081), (299, 8156), (Start: 313 @8246 has 1 MA's), (319, 8270), (327, 8297), (337, 8345), (379, 8501), (392, 8561), (472, 8786), (477, 8795), (481, 8807), (498, 8849), (505, 8870), (515, 8897), (545, 9005), (594, 9095), (621, 9200),

Gene: RyeScarlet\_14 Start: 8166, Stop: 9932, Start Num: 80

Candidate Starts for RyeScarlet\_14:

(Start: 63 @8145 has 231 MA's), (Start: 75 @8160 has 21 MA's), (Start: 80 @8166 has 5 MA's), (143, 8277), (173, 8376), (225, 8538), (248, 8610), (265, 8664), (276, 8703), (299, 8775), (Start: 313 @8865 has 1 MA's), (319, 8889), (351, 9006), (357, 9021), (382, 9129), (400, 9204), (408, 9240), (423, 9300),

(468, 9420), (475, 9441), (494, 9480), (511, 9534), (512, 9537), (516, 9555), (531, 9609), (539, 9639), (545, 9651), (594, 9741), (600, 9759), (636, 9888), (654, 9915), (656, 9918),

Gene: SG4\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for SG4\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: SPB78\_2 Start: 441, Stop: 2099, Start Num: 99

Candidate Starts for SPB78\_2:

(Start: 99 @441 has 202 MA's), (Start: 137 @495 has 1 MA's), (143, 507), (175, 555), (181, 570), (185, 582), (203, 639), (216, 678), (239, 756), (246, 786), (256, 831), (265, 846), (270, 864), (317, 1041), (362, 1218), (383, 1293), (406, 1398), (412, 1431), (416, 1446), (455, 1497), (472, 1584), (479, 1599), (494, 1641), (498, 1656), (502, 1668), (515, 1704), (533, 1776), (544, 1812), (553, 1830), (569, 1869), (587, 1884), (597, 1911), (647, 2079),

Gene: STLscum\_12 Start: 7167, Stop: 8855, Start Num: 62

Candidate Starts for STLscum\_12:

(Start: 62 @7167 has 371 MA's), (213, 7431), (215, 7455), (265, 7617), (274, 7650), (299, 7725), (Start: 313 @7815 has 1 MA's), (319, 7839), (327, 7866), (337, 7914), (379, 8070), (382, 8079), (392, 8130), (477, 8364), (481, 8376), (498, 8418), (505, 8439), (515, 8466), (545, 8574), (594, 8664), (621, 8769),

Gene: Saal\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Saal\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (358, 1346), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Sabbb\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Sabbb\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (358, 1361), (367, 1412), (417, 1583), (435, 1595), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (560, 1961), (569, 1979), (576, 1994), (593, 2021), (605, 2054), (609, 2075), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Sabertooth\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Sabertooth\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Sabia\_13 Start: 6950, Stop: 8650, Start Num: 65

Candidate Starts for Sabia\_13:

(Start: 65 @6950 has 85 MA's), (94, 6998), (175, 7133), (238, 7325), (265, 7412), (Start: 313 @7610 has 1 MA's), (335, 7700), (356, 7763), (392, 7925), (464, 8123), (471, 8147), (472, 8150), (498, 8213), (505, 8234), (516, 8273), (545, 8369), (569, 8423), (594, 8459), (636, 8606), (656, 8636), (658, 8639),

Gene: Sabinator\_13 Start: 6955, Stop: 8655, Start Num: 65

Candidate Starts for Sabinator\_13:

(Start: 65 @6955 has 85 MA's), (94, 7003), (175, 7138), (238, 7330), (265, 7417), (Start: 313 @7615 has 1 MA's), (335, 7705), (356, 7768), (392, 7930), (464, 8128), (471, 8152), (472, 8155), (498, 8218), (505, 8239), (516, 8278), (545, 8374), (569, 8428), (594, 8464), (636, 8611), (656, 8641), (658, 8644),

Gene: Sabourin\_2 Start: 593, Stop: 2281, Start Num: 90

Candidate Starts for Sabourin\_2:

(Start: 90 @593 has 17 MA's), (201, 794), (243, 938), (250, 962), (265, 1007), (295, 1094), (305, 1148), (312, 1187), (344, 1322), (371, 1424), (409, 1535), (453, 1646), (464, 1697), (545, 1952), (553, 1967), (624, 2192), (627, 2204), (634, 2219),

Gene: Sachima\_11 Start: 8124, Stop: 9896, Start Num: 75

Candidate Starts for Sachima\_11:

(Start: 63 @8109 has 231 MA's), (Start: 75 @8124 has 21 MA's), (Start: 80 @8130 has 5 MA's), (143, 8241), (173, 8340), (225, 8502), (248, 8574), (265, 8628), (276, 8667), (299, 8739), (Start: 313 @8829 has 1 MA's), (319, 8853), (351, 8970), (357, 8985), (382, 9093), (400, 9168), (408, 9204), (423, 9264), (468, 9384), (475, 9405), (494, 9444), (511, 9498), (512, 9501), (516, 9519), (531, 9573), (539, 9603), (545, 9615), (594, 9705), (600, 9723), (636, 9852), (654, 9879), (656, 9882),

Gene: Saftant\_6 Start: 2534, Stop: 4177, Start Num: 64

Candidate Starts for Saftant\_6:

(Start: 61 @2531 has 11 MA's), (Start: 64 @2534 has 1 MA's), (Start: 75 @2549 has 21 MA's), (109, 2606), (189, 2753), (203, 2789), (219, 2837), (250, 2942), (255, 2969), (259, 2978), (266, 2990), (304, 3125), (Start: 313 @3173 has 1 MA's), (338, 3272), (357, 3326), (368, 3386), (389, 3425), (405, 3485), (409, 3503), (441, 3566), (464, 3635), (470, 3656), (494, 3719), (502, 3746), (511, 3773), (516, 3794), (533, 3854), (545, 3893), (558, 3920), (563, 3938), (629, 4115),

Gene: Sagefire\_12 Start: 7849, Stop: 9537, Start Num: 62

Candidate Starts for Sagefire\_12:

(Start: 62 @7849 has 371 MA's), (213, 8113), (215, 8137), (265, 8299), (274, 8332), (299, 8407), (Start: 313 @8497 has 1 MA's), (319, 8521), (327, 8548), (337, 8596), (379, 8752), (392, 8812), (477, 9046), (481, 9058), (498, 9100), (505, 9121), (515, 9148), (545, 9256), (594, 9346), (621, 9451),

Gene: Saintus\_9 Start: 5681, Stop: 7435, Start Num: 42

Candidate Starts for Saintus\_9:

(Start: 42 @5681 has 30 MA's), (Start: 54 @5723 has 7 MA's), (Start: 81 @5762 has 1 MA's), (143, 5870), (225, 6077), (291, 6278), (Start: 313 @6386 has 1 MA's), (344, 6515), (385, 6680), (395, 6713), (441, 6833), (464, 6908), (505, 7019), (511, 7037), (516, 7058), (531, 7112), (545, 7154), (624, 7358), (636, 7391), (658, 7424), (660, 7430),

Gene: Salvus\_6 Start: 2100, Stop: 3764, Start Num: 101

Candidate Starts for Salvus\_6:

(Start: 101 @2100 has 80 MA's), (131, 2139), (143, 2163), (203, 2292), (246, 2439), (250, 2454), (265, 2499), (278, 2547), (292, 2583), (304, 2640), (307, 2664), (317, 2700), (367, 2898), (372, 2913), (383, 2952), (449, 3138), (460, 3189), (464, 3219), (533, 3432), (542, 3462), (556, 3489), (559, 3501), (587, 3537), (588, 3540), (616, 3633), (629, 3690),

Gene: Salz\_12 Start: 8021, Stop: 9784, Start Num: 63

Candidate Starts for Salz\_12:

(Start: 63 @8021 has 231 MA's), (Start: 80 @8042 has 5 MA's), (128, 8129), (173, 8258), (182, 8282), (203, 8345), (248, 8489), (263, 8540), (265, 8543), (299, 8654), (303, 8678), (304, 8681), (Start: 313 @8744 has 1 MA's), (316, 8753), (319, 8768), (351, 8885), (357, 8900), (368, 8960), (389, 9044), (438, 9185), (468, 9272), (471, 9284), (494, 9332), (498, 9347), (511, 9386), (516, 9407), (527, 9446), (539, 9491), (545, 9503), (636, 9740), (654, 9767),

Gene: Samy\_5 Start: 1792, Stop: 3501, Start Num: 102

Candidate Starts for Samy\_5:

(Start: 102 @1792 has 27 MA's), (113, 1807), (136, 1849), (143, 1864), (152, 1879), (173, 1912), (186, 1945), (199, 1981), (238, 2164), (249, 2200), (Start: 313 @2440 has 1 MA's), (329, 2515), (376, 2698), (386, 2707), (412, 2812), (523, 3100), (536, 3148), (550, 3193), (607, 3340), (610, 3355), (621, 3406), (624, 3415),

Gene: Sandaddy\_10 Start: 6972, Stop: 8660, Start Num: 62

Candidate Starts for Sandaddy\_10:

(Start: 62 @6972 has 371 MA's), (Start: 179 @7152 has 2 MA's), (213, 7236), (219, 7272), (225, 7299), (265, 7422), (299, 7530), (Start: 313 @7620 has 1 MA's), (319, 7644), (327, 7671), (337, 7719), (379, 7875), (392, 7935), (472, 8160), (477, 8169), (481, 8181), (498, 8223), (505, 8244), (515, 8271), (545, 8379), (594, 8469), (621, 8574),

Gene: Sandalphon\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Sandalphon\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Sanya\_10 Start: 7634, Stop: 9322, Start Num: 62

Candidate Starts for Sanya\_10:

(Start: 62 @7634 has 371 MA's), (213, 7898), (215, 7922), (265, 8084), (274, 8117), (299, 8192), (Start: 313 @8282 has 1 MA's), (319, 8306), (327, 8333), (337, 8381), (359, 8450), (379, 8537), (382, 8546), (392, 8597), (472, 8822), (477, 8831), (481, 8843), (498, 8885), (505, 8906), (515, 8933), (545, 9041), (594, 9131), (621, 9236),

Gene: SarFire\_11 Start: 6833, Stop: 8521, Start Num: 62

Candidate Starts for SarFire\_11:

(Start: 62 @6833 has 371 MA's), (Start: 179 @7013 has 2 MA's), (213, 7097), (219, 7133), (225, 7160), (265, 7283), (274, 7316), (299, 7391), (Start: 313 @7481 has 1 MA's), (319, 7505), (327, 7532), (337, 7580), (379, 7736), (382, 7745), (392, 7796), (477, 8030), (481, 8042), (498, 8084), (505, 8105), (515, 8132), (545, 8240), (594, 8330), (621, 8435),

Gene: SarahRose\_6 Start: 2376, Stop: 4022, Start Num: 59

Candidate Starts for SarahRose\_6:

(Start: 59 @2376 has 85 MA's), (Start: 75 @2394 has 21 MA's), (Start: 150 @2526 has 2 MA's), (189, 2598), (203, 2634), (255, 2814), (266, 2835), (282, 2880), (296, 2922), (307, 2994), (Start: 313 @3018 has 1 MA's), (338, 3117), (342, 3132), (351, 3156), (353, 3162), (405, 3330), (464, 3480), (470, 3501), (494, 3564), (502, 3591), (533, 3699), (545, 3738), (556, 3759), (558, 3765), (563, 3783), (609, 3879), (624, 3939), (660, 4017),

Gene: Saskia\_11 Start: 8024, Stop: 9787, Start Num: 63

Candidate Starts for Saskia\_11:

(14, 7775), (Start: 63 @8024 has 231 MA's), (Start: 80 @8045 has 5 MA's), (128, 8132), (173, 8261), (182, 8285), (203, 8348), (248, 8492), (263, 8543), (265, 8546), (299, 8657), (303, 8681), (304, 8684), (Start: 313 @8747 has 1 MA's), (316, 8756), (319, 8771), (351, 8888), (357, 8903), (368, 8963), (389, 9047), (438, 9188), (468, 9275), (471, 9287), (494, 9335), (498, 9350), (511, 9389), (516, 9410), (527, 9449), (539, 9494), (545, 9506), (636, 9743), (654, 9770),

Gene: Sassafras\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Sassafras\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: SassyB\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for SassyB\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: SaturnRing\_11 Start: 6496, Stop: 8193, Start Num: 62

Candidate Starts for SaturnRing\_11:

(Start: 62 @6496 has 371 MA's), (Start: 81 @6520 has 1 MA's), (109, 6568), (213, 6766), (225, 6829), (257, 6940), (265, 6952), (276, 6991), (283, 7003), (299, 7060), (303, 7084), (Start: 313 @7150 has 1 MA's), (316, 7159), (335, 7240), (342, 7267), (379, 7405), (401, 7492), (408, 7525), (438, 7591), (464, 7666), (471, 7690), (472, 7693), (475, 7699), (479, 7708), (494, 7741), (498, 7756), (516, 7816), (545, 7912), (563, 7957), (569, 7966), (625, 8119), (636, 8149), (656, 8179), (658, 8182),

Gene: Scamp\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Scamp\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537),

(656, 8567), (658, 8570),

Gene: Schaffner\_2 Start: 545, Stop: 2242, Start Num: 84

Candidate Starts for Schaffner\_2:

(10, 242), (Start: 84 @545 has 42 MA's), (Start: 137 @632 has 1 MA's), (247, 917), (265, 974), (276, 1016), (305, 1112), (316, 1166), (344, 1286), (367, 1376), (386, 1415), (464, 1661), (502, 1772), (523, 1841), (545, 1916), (553, 1931), (599, 2057), (620, 2141), (627, 2165),

Gene: Scherzo\_13 Start: 8163, Stop: 9929, Start Num: 80

Candidate Starts for Scherzo\_13:

(Start: 63 @8142 has 231 MA's), (Start: 75 @8157 has 21 MA's), (Start: 80 @8163 has 5 MA's), (143, 8274), (173, 8373), (225, 8535), (248, 8607), (265, 8661), (276, 8700), (299, 8772), (Start: 313 @8862 has 1 MA's), (319, 8886), (351, 9003), (357, 9018), (382, 9126), (400, 9201), (408, 9237), (423, 9297), (468, 9417), (475, 9438), (494, 9477), (511, 9531), (512, 9534), (516, 9552), (531, 9606), (539, 9636), (545, 9648), (594, 9738), (600, 9756), (636, 9885), (654, 9912), (656, 9915),

Gene: Scorpia\_10 Start: 5985, Stop: 7736, Start Num: 42

Candidate Starts for Scorpia\_10:

(Start: 37 @5958 has 19 MA's), (Start: 42 @5985 has 30 MA's), (Start: 66 @6045 has 35 MA's), (73, 6054), (97, 6093), (143, 6174), (203, 6306), (225, 6381), (226, 6384), (284, 6558), (Start: 313 @6690 has 1 MA's), (324, 6735), (342, 6813), (344, 6819), (385, 6984), (395, 7017), (401, 7038), (464, 7212), (471, 7236), (511, 7338), (516, 7359), (531, 7413), (539, 7443), (545, 7455), (569, 7509), (635, 7689), (636, 7692), (658, 7725), (660, 7731),

Gene: Scottish\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Scottish\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Scout\_11 Start: 5791, Stop: 7488, Start Num: 62

Candidate Starts for Scout\_11:

(Start: 62 @5791 has 371 MA's), (109, 5863), (213, 6061), (257, 6235), (265, 6247), (276, 6286), (283, 6298), (299, 6355), (303, 6379), (Start: 313 @6445 has 1 MA's), (316, 6454), (335, 6535), (379, 6700), (395, 6766), (401, 6787), (406, 6811), (408, 6820), (438, 6886), (464, 6961), (471, 6985), (472, 6988), (475, 6994), (479, 7003), (498, 7051), (511, 7090), (516, 7111), (545, 7207), (563, 7252), (569, 7261), (625, 7414), (636, 7444), (656, 7474), (658, 7477),

Gene: Scowl\_12 Start: 7525, Stop: 9213, Start Num: 62

Candidate Starts for Scowl\_12:

(Start: 62 @7525 has 371 MA's), (213, 7789), (215, 7813), (265, 7975), (274, 8008), (299, 8083), (Start: 313 @8173 has 1 MA's), (319, 8197), (327, 8224), (337, 8272), (359, 8341), (379, 8428), (392, 8488), (472, 8713), (477, 8722), (481, 8734), (498, 8776), (505, 8797), (515, 8824), (545, 8932), (594, 9022), (621, 9127),

Gene: Scuba\_33 Start: 13019, Stop: 14698, Start Num: 95

Candidate Starts for Scuba\_33:

(Start: 95 @13019 has 3 MA's), (Start: 101 @13025 has 80 MA's), (153, 13130), (184, 13172), (200, 13229), (216, 13298), (219, 13307), (232, 13379), (248, 13418), (267, 13478), (317, 13679), (327, 13724), (367, 13874), (371, 13886), (476, 14180), (488, 14213), (506, 14294), (547, 14417), (552, 14429), (591, 14492), (611, 14561), (621, 14603), (629, 14633), (651, 14675), (659, 14690),

Gene: Seabastian\_2 Start: 605, Stop: 2218, Start Num: 115

Candidate Starts for Seabastian\_2:

(Start: 91 @578 has 1 MA's), (Start: 99 @581 has 202 MA's), (Start: 115 @605 has 3 MA's), (Start: 134 @638 has 1 MA's), (Start: 144 @662 has 2 MA's), (146, 665), (185, 728), (200, 767), (222, 854), (223, 860), (233, 914), (245, 938), (248, 947), (249, 950), (252, 971), (258, 992), (282, 1064), (296, 1103), (306, 1172), (309, 1178), (317, 1208), (318, 1211), (319, 1220), (323, 1235), (327, 1253), (338, 1304), (364, 1397), (367, 1406), (417, 1577), (435, 1589), (464, 1673), (474, 1703), (476, 1706), (478, 1709), (498, 1766), (503, 1781), (505, 1787), (506, 1790), (511, 1805), (514, 1814), (532, 1883), (543, 1913), (547, 1922), (560, 1955), (576, 1988), (593, 2015), (605, 2048), (609, 2069), (611, 2075), (612, 2078), (617, 2099), (621, 2123), (624, 2132), (625, 2135), (650, 2192),

Gene: Seabiscuit\_13 Start: 7054, Stop: 8742, Start Num: 62

Candidate Starts for Seabiscuit\_13:

(Start: 62 @7054 has 371 MA's), (213, 7318), (215, 7342), (253, 7477), (265, 7504), (274, 7537), (299, 7612), (Start: 313 @7702 has 1 MA's), (319, 7726), (327, 7753), (337, 7801), (359, 7870), (379, 7957), (382, 7966), (392, 8017), (477, 8251), (481, 8263), (498, 8305), (505, 8326), (515, 8353), (545, 8461), (594, 8551), (621, 8656),

Gene: Seanderson\_12 Start: 7498, Stop: 9186, Start Num: 62

Candidate Starts for Seanderson\_12:

(Start: 62 @7498 has 371 MA's), (Start: 179 @7678 has 2 MA's), (213, 7762), (219, 7798), (225, 7825), (265, 7948), (299, 8056), (Start: 313 @8146 has 1 MA's), (319, 8170), (327, 8197), (337, 8245), (359, 8314), (375, 8389), (379, 8401), (392, 8461), (472, 8686), (477, 8695), (481, 8707), (498, 8749), (505, 8770), (515, 8797), (545, 8905), (594, 8995), (621, 9100),

Gene: SemperFi\_14 Start: 7814, Stop: 9601, Start Num: 63

Candidate Starts for SemperFi\_14:

(Start: 63 @7814 has 231 MA's), (128, 7922), (138, 7943), (173, 8051), (225, 8213), (263, 8333), (265, 8336), (299, 8444), (Start: 313 @8534 has 1 MA's), (319, 8558), (351, 8675), (357, 8690), (433, 8990), (502, 9176), (511, 9203), (516, 9224), (545, 9320), (636, 9557), (654, 9584), (656, 9587),

Gene: SenorClean\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for SenorClean\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Serenity\_11 Start: 6379, Stop: 8160, Start Num: 63

Candidate Starts for Serenity\_11:

(Start: 63 @6379 has 231 MA's), (Start: 148 @6523 has 2 MA's), (160, 6568), (173, 6610), (182, 6634), (203, 6697), (221, 6751), (263, 6892), (265, 6895), (276, 6934), (299, 7003), (Start: 313 @7093 has 1 MA's), (319, 7117), (356, 7246), (357, 7249), (421, 7522), (511, 7762), (516, 7783), (539, 7867), (545, 7879), (636, 8116), (654, 8143), (656, 8146), (658, 8149),

Gene: Severus\_10 Start: 4781, Stop: 6472, Start Num: 62

Candidate Starts for Severus\_10:

(Start: 62 @4781 has 371 MA's), (Start: 81 @4805 has 1 MA's), (Start: 148 @4928 has 2 MA's), (186, 4997), (203, 5048), (213, 5060), (221, 5102), (225, 5123), (250, 5201), (265, 5246), (276, 5285), (296, 5333), (299, 5354), (303, 5378), (Start: 313 @5429 has 1 MA's), (344, 5552), (384, 5699), (397, 5759), (408, 5804), (463, 5942), (464, 5945), (484, 5999), (498, 6035), (511, 6074), (516, 6095), (545, 6191), (576, 6260), (636, 6428), (656, 6458), (658, 6461),

Gene: Shaka\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Shaka\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: ShakeltOph\_2 Start: 550, Stop: 2277, Start Num: 59

Candidate Starts for ShakeltOph\_2:

(40, 490), (Start: 59 @550 has 85 MA's), (Start: 137 @661 has 1 MA's), (240, 925), (243, 934), (255, 985), (265, 1003), (280, 1051), (305, 1144), (472, 1720), (523, 1873), (545, 1948), (553, 1963), (599, 2092), (627, 2200), (656, 2263),

Gene: Sham4\_12 Start: 8027, Stop: 9790, Start Num: 63

Candidate Starts for Sham4\_12:

(Start: 63 @8027 has 231 MA's), (Start: 80 @8048 has 5 MA's), (128, 8135), (173, 8264), (182, 8288), (203, 8351), (248, 8495), (263, 8546), (265, 8549), (299, 8660), (303, 8684), (304, 8687), (Start: 313 @8750 has 1 MA's), (316, 8759), (319, 8774), (351, 8891), (357, 8906), (368, 8966), (389, 9050), (468, 9278), (471, 9290), (494, 9338), (498, 9353), (511, 9392), (516, 9413), (527, 9452), (539, 9497), (545, 9509), (636, 9746), (654, 9773),

Gene: Shapes\_14 Start: 6755, Stop: 8446, Start Num: 62

Candidate Starts for Shapes\_14:

(Start: 62 @6755 has 371 MA's), (Start: 81 @6779 has 1 MA's), (Start: 148 @6902 has 2 MA's), (185, 6968), (203, 7022), (213, 7034), (222, 7079), (238, 7133), (246, 7160), (250, 7175), (265, 7220), (276, 7259), (296, 7307), (299, 7328), (303, 7352), (Start: 313 @7403 has 1 MA's), (344, 7526), (384, 7673), (397, 7733), (408, 7778), (438, 7844), (464, 7919), (471, 7943), (498, 8009), (516, 8069), (545, 8165), (569, 8219), (636, 8402), (656, 8432), (658, 8435),

Gene: Shauna1\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Shauna1\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: ShayRa\_15 Start: 6808, Stop: 8505, Start Num: 63

Candidate Starts for ShayRa\_15:

(Start: 63 @6808 has 231 MA's), (78, 6826), (175, 6988), (248, 7213), (265, 7267), (299, 7375), (304, 7402), (Start: 313 @7465 has 1 MA's), (319, 7489), (471, 8005), (498, 8068), (512, 8110), (545, 8224), (599, 8329), (636, 8461), (654, 8488), (656, 8491), (658, 8494),

Gene: SheaKeira\_12 Start: 6325, Stop: 8097, Start Num: 75

Candidate Starts for SheaKeira\_12:

(Start: 63 @6310 has 231 MA's), (Start: 75 @6325 has 21 MA's), (Start: 80 @6331 has 5 MA's), (143, 6442), (173, 6541), (225, 6703), (248, 6775), (265, 6829), (276, 6868), (299, 6940), (310, 7012), (Start: 313 @7030 has 1 MA's), (319, 7054), (351, 7171), (357, 7186), (382, 7294), (400, 7369), (423, 7465), (444, 7501), (475, 7606), (494, 7645), (502, 7672), (511, 7699), (512, 7702), (516, 7720), (531, 7774), (539, 7804), (545, 7816), (594, 7906), (600, 7924), (636, 8053), (654, 8080), (656, 8083),

Gene: SheckWes\_3 Start: 948, Stop: 2573, Start Num: 137

Candidate Starts for SheckWes\_3:

(Start: 101 @897 has 80 MA's), (Start: 137 @948 has 1 MA's), (147, 969), (177, 1014), (243, 1221), (250, 1254), (259, 1290), (265, 1299), (266, 1302), (274, 1335), (278, 1350), (305, 1449), (307, 1470), (317, 1506), (321, 1527), (330, 1563), (347, 1629), (362, 1683), (406, 1863), (412, 1896), (455, 1962), (466, 2028), (468, 2034), (523, 2199), (531, 2232), (558, 2301), (599, 2379), (600, 2382), (623, 2472), (625, 2478), (632, 2499), (656, 2559), (658, 2562),

Gene: Sheen\_13 Start: 8359, Stop: 10059, Start Num: 62

Candidate Starts for Sheen\_13:

(Start: 62 @8359 has 371 MA's), (Start: 102 @8422 has 27 MA's), (186, 8566), (196, 8596), (213, 8629), (225, 8692), (265, 8815), (269, 8830), (299, 8923), (303, 8947), (Start: 313 @9013 has 1 MA's), (357, 9169), (379, 9268), (401, 9355), (408, 9388), (432, 9442), (441, 9457), (463, 9526), (464, 9529), (471, 9553), (502, 9631), (545, 9775), (563, 9820), (600, 9883), (625, 9982), (636, 10012), (656, 10045),

Gene: SheldonCooper\_11 Start: 6862, Stop: 8559, Start Num: 62

Candidate Starts for SheldonCooper\_11:

(Start: 62 @6862 has 371 MA's), (Start: 81 @6886 has 1 MA's), (Start: 148 @7009 has 2 MA's), (196, 7099), (213, 7132), (263, 7315), (265, 7318), (276, 7357), (299, 7426), (303, 7450), (Start: 313 @7516 has 1 MA's), (335, 7606), (379, 7771), (401, 7858), (408, 7891), (438, 7957), (463, 8029), (464, 8032), (471, 8056), (494, 8107), (498, 8122), (511, 8161), (516, 8182), (545, 8278), (636, 8515), (656, 8545), (658, 8548),

Gene: ShiLan\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for ShiLan\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (524, 1844), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: ShortQueendom\_10 Start: 6640, Stop: 8328, Start Num: 62

Candidate Starts for ShortQueendom\_10:

(Start: 62 @6640 has 371 MA's), (Start: 179 @6820 has 2 MA's), (213, 6904), (219, 6940), (265, 7090), (299, 7198), (Start: 313 @7288 has 1 MA's), (319, 7312), (337, 7387), (359, 7456), (379, 7543), (392, 7603), (477, 7837), (481, 7849), (498, 7891), (505, 7912), (515, 7939), (545, 8047), (594, 8137), (621, 8242),

Gene: ShowerHandel\_2 Start: 573, Stop: 2210, Start Num: 99

Candidate Starts for ShowerHandel\_2:

(Start: 99 @573 has 202 MA's), (Start: 105 @582 has 2 MA's), (Start: 115 @597 has 3 MA's), (Start: 127 @618 has 1 MA's), (Start: 144 @654 has 2 MA's), (146, 657), (153, 675), (185, 720), (200, 759), (222, 846), (233, 906), (245, 930), (248, 939), (249, 942), (252, 963), (258, 984), (267, 999), (282, 1056), (296, 1095), (306, 1164), (309, 1170), (317, 1200), (318, 1203), (319, 1212), (323, 1227), (327, 1245), (338, 1296), (364, 1389), (367, 1398), (417, 1569), (435, 1581), (464, 1665), (474, 1695), (476, 1698), (478, 1701), (498, 1758), (503, 1773), (505, 1779), (506, 1782), (511, 1797), (514, 1806), (524, 1845), (532, 1875), (543, 1905), (547, 1914), (560, 1947), (576, 1980), (593, 2007), (605, 2040), (612, 2070), (617, 2091), (621, 2115), (624, 2124), (625, 2127), (650, 2184),

Gene: ShroomBoi\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for ShroomBoi\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Shuman\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Shuman\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Shygu2\_11 Start: 6887, Stop: 8584, Start Num: 62

Candidate Starts for Shygu2\_11:

(Start: 62 @6887 has 371 MA's), (Start: 81 @6911 has 1 MA's), (213, 7157), (263, 7340), (265, 7343), (276, 7382), (299, 7451), (303, 7475), (Start: 313 @7541 has 1 MA's), (335, 7631), (379, 7796), (401, 7883), (408, 7916), (454, 8009), (464, 8057), (471, 8081), (498, 8147), (511, 8186), (516, 8207), (545, 8303), (635, 8537), (636, 8540), (656, 8570), (658, 8573),

Gene: SiSi\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for SiSi\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 127 @617 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (153, 674), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Sibs6\_13 Start: 7273, Stop: 8961, Start Num: 70

Candidate Starts for Sibs6\_13:

(Start: 70 @7273 has 45 MA's), (175, 7444), (Start: 179 @7453 has 2 MA's), (213, 7537), (216, 7564), (219, 7573), (265, 7723), (274, 7756), (299, 7831), (Start: 313 @7921 has 1 MA's), (319, 7945), (327, 7972), (337, 8020), (379, 8176), (392, 8236), (472, 8461), (477, 8470), (481, 8482), (498, 8524), (505, 8545), (515, 8572), (545, 8680), (594, 8770), (621, 8875),

Gene: Simpson\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for Simpson\_2:

(Start: 84 @533 has 42 MA's), (247, 905), (265, 962), (280, 1010), (305, 1100), (316, 1154), (344, 1274), (367, 1364), (418, 1526), (464, 1649), (545, 1904), (553, 1919), (576, 1973), (599, 2054), (620, 2138), (627, 2162),

Gene: Skelbel\_2 Start: 534, Stop: 2240, Start Num: 84

Candidate Starts for Skelbel\_2:

(Start: 84 @534 has 42 MA's), (Start: 137 @621 has 1 MA's), (247, 906), (265, 963), (270, 984), (280, 1011), (305, 1101), (316, 1155), (326, 1200), (344, 1275), (386, 1404), (409, 1488), (418, 1527), (464, 1650), (523, 1830), (531, 1863), (545, 1905), (553, 1920), (599, 2055), (609, 2091), (624, 2151), (627, 2163),

Gene: SketchMex\_3 Start: 1110, Stop: 2789, Start Num: 101

Candidate Starts for SketchMex\_3:

(Start: 101 @1110 has 80 MA's), (Start: 137 @1161 has 1 MA's), (147, 1182), (174, 1221), (203, 1308), (Start: 218 @1353 has 2 MA's), (224, 1374), (225, 1383), (246, 1455), (259, 1506), (265, 1515), (278, 1566), (305, 1665), (307, 1686), (316, 1719), (326, 1755), (362, 1899), (372, 1935), (383, 1974), (388, 2007), (401, 2055), (412, 2112), (436, 2145), (455, 2178), (466, 2244), (468, 2250), (493, 2316), (496, 2328), (523, 2415), (556, 2511), (587, 2559), (611, 2634), (632, 2715), (656, 2775), (658, 2778),

Gene: SkiPole\_13 Start: 7147, Stop: 8835, Start Num: 62

Candidate Starts for SkiPole\_13:

(Start: 62 @7147 has 371 MA's), (213, 7411), (215, 7435), (265, 7597), (274, 7630), (299, 7705), (Start: 313 @7795 has 1 MA's), (319, 7819), (337, 7894), (379, 8050), (382, 8059), (391, 8107), (392, 8110), (477, 8344), (481, 8356), (498, 8398), (505, 8419), (515, 8446), (545, 8554), (594, 8644), (621, 8749),

Gene: Skipitt\_11 Start: 7031, Stop: 8581, Start Num: 148

Candidate Starts for Skipitt\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Sknot\_12 Start: 7484, Stop: 9271, Start Num: 63

Candidate Starts for Sknot\_12:

(16, 7298), (35, 7400), (Start: 63 @7484 has 231 MA's), (128, 7592), (138, 7613), (173, 7721), (265, 8006), (299, 8114), (Start: 313 @8204 has 1 MA's), (319, 8228), (337, 8303), (351, 8345), (357, 8360), (463, 8744), (464, 8747), (511, 8873), (516, 8894), (539, 8978), (545, 8990), (636, 9227), (654, 9254), (656, 9257), (658, 9260), (659, 9263),

Gene: Skysand\_26 Start: 13268, Stop: 14947, Start Num: 99

Candidate Starts for Skysand\_26:

(Start: 99 @13268 has 202 MA's), (184, 13418), (200, 13475), (207, 13502), (212, 13514), (219, 13553), (225, 13586), (317, 13928), (323, 13955), (367, 14123), (371, 14135), (380, 14168), (405, 14246), (454, 14348), (488, 14462), (506, 14543), (511, 14558), (523, 14600), (547, 14666), (552, 14678), (567, 14714), (591, 14741), (611, 14810), (612, 14813), (629, 14882),

Gene: Slagathor\_12 Start: 6925, Stop: 8613, Start Num: 62

Candidate Starts for Slagathor\_12:

(Start: 62 @6925 has 371 MA's), (213, 7189), (215, 7213), (265, 7375), (274, 7408), (299, 7483), (Start: 313 @7573 has 1 MA's), (319, 7597), (327, 7624), (337, 7672), (375, 7816), (379, 7828), (392,

7888), (477, 8122), (481, 8134), (498, 8176), (505, 8197), (515, 8224), (545, 8332), (594, 8422), (621, 8527),

Gene: Smairt\_12 Start: 7444, Stop: 9132, Start Num: 62

Candidate Starts for Smairt\_12:

(Start: 62 @7444 has 371 MA's), (Start: 179 @7624 has 2 MA's), (213, 7708), (219, 7744), (225, 7771), (265, 7894), (299, 8002), (Start: 313 @8092 has 1 MA's), (319, 8116), (337, 8191), (379, 8347), (392, 8407), (472, 8632), (477, 8641), (481, 8653), (498, 8695), (505, 8716), (515, 8743), (545, 8851), (594, 8941), (621, 9046),

Gene: Smeadley\_9 Start: 5701, Stop: 7455, Start Num: 42

Candidate Starts for Smeadley\_9:

(Start: 42 @5701 has 30 MA's), (Start: 54 @5743 has 7 MA's), (Start: 81 @5782 has 1 MA's), (143, 5890), (225, 6097), (291, 6298), (Start: 313 @6406 has 1 MA's), (344, 6535), (385, 6700), (395, 6733), (441, 6853), (464, 6928), (505, 7039), (511, 7057), (516, 7078), (531, 7132), (545, 7174), (576, 7243), (599, 7279), (624, 7378), (636, 7411), (658, 7444), (660, 7450),

Gene: Smeagan\_14 Start: 7883, Stop: 9670, Start Num: 63

Candidate Starts for Smeagan\_14:

(Start: 63 @7883 has 231 MA's), (128, 7991), (138, 8012), (160, 8078), (161, 8084), (173, 8120), (203, 8207), (263, 8402), (265, 8405), (299, 8513), (Start: 313 @8603 has 1 MA's), (319, 8627), (337, 8702), (351, 8744), (357, 8759), (433, 9059), (502, 9245), (511, 9272), (516, 9293), (545, 9389), (636, 9626), (656, 9656),

Gene: Smeagol\_12 Start: 7865, Stop: 9553, Start Num: 62

Candidate Starts for Smeagol\_12:

(Start: 62 @7865 has 371 MA's), (Start: 179 @8045 has 2 MA's), (213, 8129), (219, 8165), (225, 8192), (265, 8315), (299, 8423), (Start: 313 @8513 has 1 MA's), (319, 8537), (327, 8564), (337, 8612), (379, 8768), (392, 8828), (472, 9053), (477, 9062), (481, 9074), (498, 9116), (505, 9137), (515, 9164), (545, 9272), (594, 9362), (621, 9467),

Gene: SmellyB\_15 Start: 7533, Stop: 9287, Start Num: 63

Candidate Starts for SmellyB\_15:

(Start: 63 @7533 has 231 MA's), (173, 7764), (189, 7815), (203, 7851), (225, 7926), (265, 8049), (276, 8088), (299, 8157), (303, 8181), (304, 8184), (Start: 313 @8247 has 1 MA's), (319, 8271), (344, 8370), (345, 8373), (356, 8400), (357, 8403), (438, 8688), (468, 8775), (471, 8787), (498, 8850), (511, 8889), (516, 8910), (539, 8994), (545, 9006), (636, 9243), (654, 9270), (656, 9273),

Gene: Smoothie\_31 Start: 8683, Stop: 10431, Start Num: 102

Candidate Starts for Smoothie\_31:

(Start: 102 @8683 has 27 MA's), (120, 8713), (187, 8842), (235, 9028), (241, 9067), (249, 9091), (254, 9121), (263, 9139), (271, 9166), (280, 9196), (326, 9388), (329, 9406), (370, 9568), (390, 9616), (396, 9631), (453, 9814), (455, 9820), (471, 9904), (501, 9991), (512, 10024), (541, 10138), (558, 10174), (569, 10198), (579, 10213), (640, 10387), (644, 10393),

Gene: SnapTap\_12 Start: 7386, Stop: 9173, Start Num: 63

Candidate Starts for SnapTap\_12:

(Start: 63 @7386 has 231 MA's), (128, 7494), (138, 7515), (173, 7623), (225, 7785), (263, 7905), (265, 7908), (299, 8016), (Start: 313 @8106 has 1 MA's), (319, 8130), (351, 8247), (357, 8262), (433, 8562), (502, 8748), (511, 8775), (516, 8796), (545, 8892), (636, 9129), (654, 9156), (656, 9159),

Gene: Snape\_12 Start: 8027, Stop: 9790, Start Num: 63

Candidate Starts for Snape\_12:

(Start: 63 @8027 has 231 MA's), (Start: 80 @8048 has 5 MA's), (128, 8135), (173, 8264), (182, 8288), (203, 8351), (248, 8495), (263, 8546), (265, 8549), (299, 8660), (303, 8684), (304, 8687), (Start: 313 @8750 has 1 MA's), (316, 8759), (319, 8774), (351, 8891), (357, 8906), (368, 8966), (389, 9050), (438, 9191), (468, 9278), (471, 9290), (494, 9338), (498, 9353), (511, 9392), (516, 9413), (527, 9452), (539, 9497), (545, 9509), (636, 9746), (654, 9773),

Gene: Snazzy\_9 Start: 6454, Stop: 8142, Start Num: 62

Candidate Starts for Snazzy\_9:

(Start: 62 @6454 has 371 MA's), (213, 6718), (215, 6742), (265, 6904), (274, 6937), (299, 7012), (Start: 313 @7102 has 1 MA's), (319, 7126), (337, 7201), (379, 7357), (382, 7366), (391, 7414), (392, 7417), (472, 7642), (477, 7651), (481, 7663), (498, 7705), (505, 7726), (515, 7753), (545, 7861), (594, 7951), (621, 8056),

Gene: Snek\_3 Start: 1419, Stop: 3110, Start Num: 84

Candidate Starts for Snek\_3:

(Start: 84 @1419 has 42 MA's), (Start: 105 @1449 has 2 MA's), (126, 1485), (185, 1596), (243, 1779), (247, 1791), (265, 1848), (293, 1932), (305, 1989), (454, 2478), (533, 2745), (545, 2781), (553, 2796), (599, 2925), (606, 2946), (627, 3033),

Gene: Snickers\_13 Start: 6931, Stop: 8631, Start Num: 65

Candidate Starts for Snickers\_13:

(Start: 65 @6931 has 85 MA's), (94, 6979), (175, 7114), (238, 7306), (265, 7393), (Start: 313 @7591 has 1 MA's), (335, 7681), (356, 7744), (392, 7906), (464, 8104), (471, 8128), (472, 8131), (498, 8194), (505, 8215), (516, 8254), (545, 8350), (569, 8404), (594, 8440), (636, 8587), (656, 8617), (658, 8620),

Gene: Snorlax\_6 Start: 2376, Stop: 4022, Start Num: 59

Candidate Starts for Snorlax\_6:

(Start: 59 @2376 has 85 MA's), (Start: 75 @2394 has 21 MA's), (Start: 150 @2526 has 2 MA's), (189, 2598), (203, 2634), (255, 2814), (266, 2835), (282, 2880), (296, 2922), (307, 2994), (Start: 313 @3018 has 1 MA's), (338, 3117), (342, 3132), (351, 3156), (353, 3162), (405, 3330), (464, 3480), (470, 3501), (494, 3564), (502, 3591), (533, 3699), (545, 3738), (556, 3759), (558, 3765), (563, 3783), (609, 3879), (624, 3939), (660, 4017),

Gene: SoYo\_13 Start: 6868, Stop: 8568, Start Num: 65

Candidate Starts for SoYo\_13:

(Start: 65 @6868 has 85 MA's), (94, 6916), (175, 7051), (238, 7243), (265, 7330), (Start: 313 @7528 has 1 MA's), (335, 7618), (356, 7681), (392, 7843), (464, 8041), (471, 8065), (472, 8068), (498, 8131), (505, 8152), (516, 8191), (545, 8287), (569, 8341), (594, 8377), (636, 8524), (656, 8554), (658, 8557),

Gene: Socotra\_5 Start: 1113, Stop: 2792, Start Num: 101

Candidate Starts for Socotra\_5:

(Start: 101 @1113 has 80 MA's), (Start: 137 @1164 has 1 MA's), (147, 1185), (Start: 148 @1188 has 2 MA's), (177, 1230), (203, 1311), (224, 1377), (225, 1386), (246, 1458), (250, 1473), (259, 1509), (265, 1518), (278, 1569), (305, 1668), (316, 1722), (326, 1758), (362, 1902), (372, 1938), (383, 1977), (388, 2010), (401, 2058), (408, 2091), (412, 2115), (436, 2148), (455, 2181), (463, 2238), (466, 2247), (496, 2331), (523, 2418), (556, 2514), (596, 2586), (599, 2598), (632, 2718), (656, 2778), (658, 2781),

Gene: SoilDragon\_13 Start: 6642, Stop: 8342, Start Num: 65

Candidate Starts for SoilDragon\_13:

(Start: 65 @6642 has 85 MA's), (94, 6690), (175, 6825), (238, 7017), (265, 7104), (Start: 313 @7302 has 1 MA's), (335, 7392), (356, 7455), (392, 7617), (464, 7815), (471, 7839), (472, 7842), (498, 7905), (505, 7926), (516, 7965), (545, 8061), (569, 8115), (594, 8151), (636, 8298), (656, 8328), (658, 8331),

Gene: Solon\_11 Start: 7606, Stop: 9294, Start Num: 62

Candidate Starts for Solon\_11:

(Start: 62 @7606 has 371 MA's), (213, 7870), (215, 7894), (265, 8056), (274, 8089), (299, 8164),  
(Start: 313 @8254 has 1 MA's), (319, 8278), (327, 8305), (337, 8353), (379, 8509), (392, 8569), (477,  
8803), (481, 8815), (498, 8857), (505, 8878), (515, 8905), (545, 9013), (594, 9103), (621, 9208),

Gene: Soondubu\_2 Start: 568, Stop: 2274, Start Num: 84

Candidate Starts for Soondubu\_2:

(Start: 84 @568 has 42 MA's), (203, 793), (243, 922), (265, 991), (274, 1027), (280, 1039), (305, 1132),  
(316, 1186), (367, 1396), (545, 1942), (553, 1957), (620, 2173), (627, 2197), (634, 2212), (656, 2260),

Gene: Sooty\_2 Start: 593, Stop: 2281, Start Num: 90

Candidate Starts for Sooty\_2:

(Start: 90 @593 has 17 MA's), (201, 794), (243, 938), (250, 962), (265, 1007), (295, 1094), (305, 1148),  
(312, 1187), (344, 1322), (371, 1424), (409, 1535), (453, 1646), (464, 1697), (545, 1952), (553, 1967),  
(624, 2192), (627, 2204), (634, 2219),

Gene: Sopespian\_4 Start: 1113, Stop: 2792, Start Num: 101

Candidate Starts for Sopespian\_4:

(Start: 101 @1113 has 80 MA's), (Start: 137 @1164 has 1 MA's), (147, 1185), (Start: 148 @1188 has 2  
MA's), (174, 1224), (177, 1230), (203, 1311), (224, 1377), (225, 1386), (246, 1458), (250, 1473), (259,  
1509), (265, 1518), (278, 1569), (305, 1668), (316, 1722), (326, 1758), (362, 1902), (372, 1938), (383,  
1977), (388, 2010), (401, 2058), (408, 2091), (412, 2115), (436, 2148), (455, 2181), (463, 2238), (466,  
2247), (496, 2331), (523, 2418), (556, 2514), (596, 2586), (599, 2598), (632, 2718), (656, 2778), (658,  
2781),

Gene: SororFago\_11 Start: 6539, Stop: 8296, Start Num: 63

Candidate Starts for SororFago\_11:

(Start: 63 @6539 has 231 MA's), (131, 6647), (143, 6671), (159, 6725), (162, 6737), (165, 6746), (170,  
6755), (173, 6770), (189, 6821), (225, 6932), (263, 7052), (265, 7055), (299, 7166), (303, 7190), (Start:  
313 @7256 has 1 MA's), (319, 7280), (335, 7346), (357, 7412), (382, 7520), (400, 7595), (464, 7772),  
(468, 7784), (471, 7796), (472, 7799), (475, 7805), (498, 7859), (511, 7898), (545, 8015), (576, 8084),  
(636, 8252), (654, 8279),

Gene: Sorpresa\_11 Start: 6972, Stop: 8660, Start Num: 62

Candidate Starts for Sorpresa\_11:

(Start: 62 @6972 has 371 MA's), (Start: 179 @7152 has 2 MA's), (213, 7236), (219, 7272), (225, 7299),  
(265, 7422), (299, 7530), (Start: 313 @7620 has 1 MA's), (319, 7644), (327, 7671), (337, 7719), (379,  
7875), (392, 7935), (472, 8160), (477, 8169), (481, 8181), (498, 8223), (505, 8244), (515, 8271), (545,  
8379), (594, 8469), (621, 8574),

Gene: Soshari\_15 Start: 7040, Stop: 8740, Start Num: 65

Candidate Starts for Soshari\_15:

(Start: 65 @7040 has 85 MA's), (94, 7088), (175, 7223), (238, 7415), (265, 7502), (Start: 313 @7700  
has 1 MA's), (335, 7790), (356, 7853), (392, 8015), (464, 8213), (471, 8237), (472, 8240), (498, 8303),  
(505, 8324), (516, 8363), (545, 8459), (569, 8513), (594, 8549), (636, 8696), (656, 8726), (658, 8729),

Gene: Soups\_14 Start: 6808, Stop: 8505, Start Num: 63

Candidate Starts for Soups\_14:

(Start: 63 @6808 has 231 MA's), (78, 6826), (175, 6988), (225, 7144), (248, 7213), (265, 7267), (299,  
7375), (304, 7402), (Start: 313 @7465 has 1 MA's), (319, 7489), (471, 8005), (498, 8068), (512, 8110),  
(545, 8224), (599, 8329), (636, 8461), (654, 8488), (656, 8491), (658, 8494),

Gene: South40\_7 Start: 2648, Stop: 4294, Start Num: 59

Candidate Starts for South40\_7:

(Start: 59 @2648 has 85 MA's), (Start: 75 @2666 has 21 MA's), (189, 2870), (Start: 218 @2951 has 2 MA's), (255, 3086), (266, 3107), (282, 3152), (296, 3194), (307, 3266), (Start: 313 @3290 has 1 MA's), (338, 3389), (357, 3443), (367, 3500), (405, 3602), (425, 3662), (447, 3689), (470, 3773), (475, 3785), (502, 3863), (513, 3896), (533, 3971), (545, 4010), (556, 4031), (558, 4037), (563, 4055), (609, 4151), (624, 4211),

Gene: Sparkdehlily\_2 Start: 588, Stop: 2225, Start Num: 99

Candidate Starts for Sparkdehlily\_2:

(Start: 99 @588 has 202 MA's), (109, 603), (Start: 115 @612 has 3 MA's), (118, 618), (Start: 134 @645 has 1 MA's), (Start: 144 @669 has 2 MA's), (146, 672), (185, 735), (189, 753), (200, 774), (222, 861), (223, 867), (233, 921), (241, 933), (245, 945), (248, 954), (249, 957), (252, 978), (258, 999), (282, 1071), (296, 1110), (306, 1179), (309, 1185), (317, 1215), (318, 1218), (319, 1227), (323, 1242), (327, 1260), (338, 1311), (367, 1413), (417, 1584), (435, 1596), (464, 1680), (474, 1710), (476, 1713), (478, 1716), (498, 1773), (503, 1788), (505, 1794), (506, 1797), (511, 1812), (514, 1821), (532, 1890), (543, 1920), (547, 1929), (560, 1962), (576, 1995), (593, 2022), (605, 2055), (611, 2082), (612, 2085), (617, 2106), (621, 2130), (624, 2139), (625, 2142), (650, 2199),

Gene: Sparky\_2 Start: 507, Stop: 2288, Start Num: 67

Candidate Starts for Sparky\_2:

(Start: 67 @507 has 2 MA's), (130, 612), (215, 831), (219, 843), (225, 870), (246, 936), (248, 942), (249, 945), (254, 975), (265, 996), (284, 1053), (306, 1155), (316, 1191), (326, 1239), (339, 1299), (363, 1389), (371, 1419), (395, 1473), (412, 1551), (464, 1659), (470, 1680), (475, 1692), (481, 1710), (506, 1809), (519, 1863), (521, 1878), (533, 1920), (545, 1968), (558, 1992), (573, 2028), (595, 2097), (598, 2103), (599, 2109), (615, 2160), (621, 2196), (623, 2202), (627, 2217), (634, 2235), (643, 2250),

Gene: Spartacus\_2 Start: 575, Stop: 2212, Start Num: 99

Candidate Starts for Spartacus\_2:

(Start: 99 @575 has 202 MA's), (Start: 105 @584 has 2 MA's), (Start: 115 @599 has 3 MA's), (Start: 127 @620 has 1 MA's), (Start: 134 @632 has 1 MA's), (Start: 144 @656 has 2 MA's), (146, 659), (153, 677), (185, 722), (200, 761), (222, 848), (233, 908), (241, 920), (245, 932), (248, 941), (249, 944), (252, 965), (258, 986), (267, 1001), (282, 1058), (296, 1097), (306, 1166), (309, 1172), (317, 1202), (318, 1205), (319, 1214), (323, 1229), (327, 1247), (338, 1298), (364, 1391), (367, 1400), (417, 1571), (435, 1583), (450, 1601), (464, 1667), (474, 1697), (476, 1700), (478, 1703), (498, 1760), (503, 1775), (505, 1781), (506, 1784), (511, 1799), (514, 1808), (532, 1877), (543, 1907), (547, 1916), (560, 1949), (576, 1982), (593, 2009), (605, 2042), (611, 2069), (612, 2072), (617, 2093), (621, 2117), (624, 2126), (625, 2129), (650, 2186),

Gene: Sparxx\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Sparxx\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: SpecialK\_2 Start: 594, Stop: 2282, Start Num: 90

Candidate Starts for SpecialK\_2:

(Start: 90 @594 has 17 MA's), (243, 939), (250, 963), (265, 1008), (295, 1095), (305, 1149), (312, 1188), (344, 1323), (371, 1425), (453, 1647), (464, 1698), (533, 1917), (545, 1953), (553, 1968), (624, 2193), (627, 2205), (634, 2220), (658, 2271),

Gene: SpeedDemon\_130 Start: 6395, Stop: 8131, Start Num: 102

Candidate Starts for SpeedDemon\_130:

(Start: 102 @6395 has 27 MA's), (143, 6467), (177, 6524), (221, 6656), (238, 6767), (249, 6803), (277, 6899), (Start: 313 @7043 has 1 MA's), (320, 7070), (329, 7118), (337, 7151), (391, 7325), (404, 7370), (541, 7841), (599, 7949), (624, 8045),

Gene: Speedwell\_7 Start: 2470, Stop: 4116, Start Num: 61

Candidate Starts for Speedwell\_7:

(Start: 57 @2461 has 2 MA's), (Start: 61 @2470 has 11 MA's), (Start: 64 @2473 has 1 MA's), (Start: 75 @2488 has 21 MA's), (109, 2545), (189, 2692), (Start: 218 @2773 has 2 MA's), (219, 2776), (255, 2908), (259, 2917), (265, 2926), (266, 2929), (Start: 313 @3112 has 1 MA's), (338, 3211), (357, 3265), (368, 3325), (389, 3364), (405, 3424), (441, 3505), (464, 3574), (470, 3595), (493, 3655), (494, 3658), (511, 3712), (516, 3733), (533, 3793), (545, 3832), (558, 3859), (563, 3877), (629, 4054),

Gene: Spike509\_13 Start: 7041, Stop: 8741, Start Num: 65

Candidate Starts for Spike509\_13:

(Start: 65 @7041 has 85 MA's), (94, 7089), (175, 7224), (238, 7416), (265, 7503), (Start: 313 @7701 has 1 MA's), (335, 7791), (356, 7854), (392, 8016), (464, 8214), (471, 8238), (472, 8241), (498, 8304), (505, 8325), (516, 8364), (545, 8460), (569, 8514), (594, 8550), (636, 8697), (656, 8727), (658, 8730),

Gene: SpikeBT\_13 Start: 7909, Stop: 9597, Start Num: 70

Candidate Starts for SpikeBT\_13:

(Start: 70 @7909 has 45 MA's), (Start: 179 @8089 has 2 MA's), (213, 8173), (216, 8200), (219, 8209), (265, 8359), (274, 8392), (299, 8467), (Start: 313 @8557 has 1 MA's), (319, 8581), (327, 8608), (337, 8656), (359, 8725), (379, 8812), (392, 8872), (472, 9097), (477, 9106), (481, 9118), (498, 9160), (505, 9181), (515, 9208), (545, 9316), (594, 9406), (621, 9511),

Gene: Spino\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Spino\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Spooks\_49 Start: 26688, Stop: 28250, Start Num: 105

Candidate Starts for Spooks\_49:

(Start: 105 @26688 has 2 MA's), (186, 26841), (216, 26931), (255, 27072), (257, 27078), (265, 27090), (282, 27141), (304, 27234), (305, 27237), (307, 27258), (342, 27405), (412, 27633), (468, 27756), (511, 27879), (556, 27990), (570, 28026), (624, 28170), (626, 28179), (643, 28215), (656, 28239),

Gene: Spoonbill\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Spoonbill\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Spouty\_13 Start: 8139, Stop: 9926, Start Num: 63

Candidate Starts for Spouty\_13:

(Start: 63 @8139 has 231 MA's), (Start: 75 @8154 has 21 MA's), (Start: 80 @8160 has 5 MA's), (143, 8271), (173, 8370), (225, 8532), (248, 8604), (265, 8658), (276, 8697), (299, 8769), (Start: 313 @8859 has 1 MA's), (319, 8883), (351, 9000), (357, 9015), (382, 9123), (400, 9198), (408, 9234), (423, 9294), (468, 9414), (475, 9435), (494, 9474), (511, 9528), (512, 9531), (516, 9549), (531, 9603), (539, 9633), (545, 9645), (594, 9735), (600, 9753), (636, 9882), (654, 9909), (656, 9912),

Gene: SqueakyClean\_7 Start: 2449, Stop: 4095, Start Num: 59

Candidate Starts for SqueakyClean\_7:

(Start: 59 @2449 has 85 MA's), (201, 2692), (203, 2707), (213, 2719), (223, 2770), (246, 2845), (255, 2887), (257, 2893), (266, 2908), (296, 2995), (307, 3067), (Start: 313 @3091 has 1 MA's), (338, 3190), (347, 3226), (357, 3244), (396, 3367), (405, 3403), (468, 3565), (470, 3574), (494, 3637), (511, 3691), (533, 3772), (545, 3811), (556, 3832), (563, 3856), (623, 4009), (624, 4012),

Gene: Squee\_12 Start: 7450, Stop: 9138, Start Num: 62

Candidate Starts for Squee\_12:

(Start: 62 @7450 has 371 MA's), (Start: 179 @7630 has 2 MA's), (213, 7714), (219, 7750), (225, 7777), (253, 7873), (265, 7900), (274, 7933), (299, 8008), (Start: 313 @8098 has 1 MA's), (319, 8122), (337, 8197), (379, 8353), (382, 8362), (392, 8413), (477, 8647), (481, 8659), (498, 8701), (505, 8722), (515, 8749), (545, 8857), (594, 8947), (621, 9052),

Gene: StAnnes\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for StAnnes\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: StCroix\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for StCroix\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (440, 4236), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Stagni\_13 Start: 6959, Stop: 8659, Start Num: 65

Candidate Starts for Stagni\_13:

(Start: 65 @6959 has 85 MA's), (94, 7007), (175, 7142), (238, 7334), (265, 7421), (Start: 313 @7619 has 1 MA's), (335, 7709), (356, 7772), (392, 7934), (464, 8132), (471, 8156), (472, 8159), (498, 8222), (505, 8243), (516, 8282), (545, 8378), (569, 8432), (594, 8468), (636, 8615), (656, 8645), (658, 8648),

Gene: StarStruck\_25 Start: 12805, Stop: 14535, Start Num: 99

Candidate Starts for StarStruck\_25:

(Start: 99 @12805 has 202 MA's), (Start: 102 @12811 has 27 MA's), (197, 13006), (200, 13012), (212, 13051), (216, 13081), (225, 13123), (260, 13300), (317, 13516), (323, 13543), (367, 13711), (371, 13723), (380, 13756), (405, 13834), (476, 14017), (488, 14050), (492, 14080), (506, 14131), (518, 14179), (547, 14254), (552, 14266), (567, 14302), (621, 14440), (629, 14470),

Gene: StarStuff\_15 Start: 7375, Stop: 9162, Start Num: 63

Candidate Starts for StarStuff\_15:

(22, 7216), (26, 7243), (Start: 63 @7375 has 231 MA's), (128, 7483), (138, 7504), (160, 7570), (173, 7612), (203, 7699), (263, 7894), (265, 7897), (299, 8005), (Start: 313 @8095 has 1 MA's), (319, 8119), (344, 8218), (356, 8248), (357, 8251), (383, 8362), (433, 8551), (494, 8710), (498, 8725), (502, 8737), (511, 8764), (516, 8785), (539, 8869), (545, 8881), (594, 8971), (636, 9118), (654, 9145), (656, 9148),

Gene: Starburst\_5 Start: 1113, Stop: 2792, Start Num: 101

Candidate Starts for Starburst\_5:

(Start: 101 @1113 has 80 MA's), (Start: 137 @1164 has 1 MA's), (147, 1185), (Start: 148 @1188 has 2 MA's), (177, 1230), (203, 1311), (224, 1377), (225, 1386), (246, 1458), (250, 1473), (259, 1509), (265, 1518), (278, 1569), (305, 1668), (316, 1722), (326, 1758), (362, 1902), (372, 1938), (383, 1977), (388, 2010), (401, 2058), (408, 2091), (412, 2115), (436, 2148), (455, 2181), (463, 2238), (466, 2247), (496, 2331), (505, 2358), (523, 2418), (556, 2514), (596, 2586), (599, 2598), (632, 2718), (656, 2778), (658, 2781),

Gene: Stasia\_12 Start: 7329, Stop: 9026, Start Num: 62

Candidate Starts for Stasia\_12:

(Start: 62 @7329 has 371 MA's), (Start: 81 @7353 has 1 MA's), (213, 7599), (263, 7782), (265, 7785), (276, 7824), (299, 7893), (303, 7917), (Start: 313 @7983 has 1 MA's), (316, 7992), (335, 8073), (344, 8106), (379, 8238), (401, 8325), (408, 8358), (438, 8424), (464, 8499), (471, 8523), (498, 8589), (502, 8601), (511, 8628), (516, 8649), (545, 8745), (576, 8814), (636, 8982), (656, 9012), (658, 9015),

Gene: SteMason\_10 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for SteMason\_10:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: SteamedHams\_6 Start: 1120, Stop: 2799, Start Num: 101

Candidate Starts for SteamedHams\_6:

(Start: 101 @1120 has 80 MA's), (Start: 137 @1171 has 1 MA's), (147, 1192), (Start: 148 @1195 has 2 MA's), (177, 1237), (201, 1303), (Start: 218 @1363 has 2 MA's), (224, 1384), (225, 1393), (250, 1480), (259, 1516), (265, 1525), (278, 1576), (305, 1675), (307, 1696), (316, 1729), (326, 1765), (362, 1909), (372, 1945), (383, 1984), (414, 2131), (436, 2155), (466, 2254), (496, 2338), (523, 2425), (556, 2521), (587, 2569), (596, 2593), (632, 2725), (656, 2785), (658, 2788),

Gene: Steamy\_13 Start: 7952, Stop: 9736, Start Num: 63

Candidate Starts for Steamy\_13:

(Start: 63 @7952 has 231 MA's), (143, 8081), (173, 8180), (182, 8204), (203, 8267), (225, 8342), (250, 8423), (265, 8468), (276, 8507), (299, 8579), (Start: 313 @8669 has 1 MA's), (319, 8693), (344, 8792), (351, 8810), (357, 8825), (464, 9212), (494, 9284), (498, 9299), (511, 9338), (512, 9341), (516, 9359), (545, 9455), (635, 9689), (636, 9692), (654, 9719), (656, 9722), (658, 9725),

Gene: Stellammi\_2 Start: 539, Stop: 2344, Start Num: 70

Candidate Starts for Stellammi\_2:

(Start: 61 @530 has 11 MA's), (Start: 70 @539 has 45 MA's), (147, 680), (171, 752), (201, 839), (243, 980), (265, 1049), (305, 1187), (306, 1205), (316, 1241), (326, 1289), (327, 1292), (366, 1457), (389, 1505), (396, 1529), (406, 1571), (408, 1580), (410, 1586), (463, 1712), (466, 1721), (475, 1748), (477, 1751), (479, 1757), (491, 1796), (507, 1856), (539, 2000), (545, 2012), (561, 2045), (572, 2069), (576, 2078), (586, 2120), (595, 2144), (609, 2192), (621, 2243), (623, 2249), (632, 2279), (656, 2327), (659, 2333),

Gene: StepMih\_13 Start: 6950, Stop: 8650, Start Num: 65

Candidate Starts for StepMih\_13:

(Start: 65 @6950 has 85 MA's), (94, 6998), (175, 7133), (238, 7325), (265, 7412), (Start: 313 @7610 has 1 MA's), (335, 7700), (356, 7763), (392, 7925), (464, 8123), (471, 8147), (472, 8150), (498, 8213), (505, 8234), (516, 8273), (545, 8369), (569, 8423), (594, 8459), (636, 8606), (656, 8636), (658, 8639),

Gene: Stephig9\_9 Start: 5669, Stop: 7423, Start Num: 42

Candidate Starts for Stephig9\_9:

(Start: 42 @5669 has 30 MA's), (Start: 54 @5711 has 7 MA's), (Start: 81 @5750 has 1 MA's), (143, 5858), (225, 6065), (291, 6266), (Start: 313 @6374 has 1 MA's), (344, 6503), (385, 6668), (395, 6701), (441, 6821), (464, 6896), (505, 7007), (511, 7025), (516, 7046), (531, 7100), (545, 7142), (599, 7247), (624, 7346), (636, 7379), (658, 7412), (660, 7418),

Gene: StewieG\_10 Start: 6822, Stop: 8510, Start Num: 62

Candidate Starts for StewieG\_10:

(Start: 62 @6822 has 371 MA's), (Start: 179 @7002 has 2 MA's), (213, 7086), (219, 7122), (225, 7149), (265, 7272), (299, 7380), (Start: 313 @7470 has 1 MA's), (319, 7494), (327, 7521), (337, 7569), (379, 7725), (392, 7785), (472, 8010), (477, 8019), (481, 8031), (498, 8073), (505, 8094), (515, 8121), (545, 8229), (594, 8319), (621, 8424),

Gene: Stickynote\_14 Start: 7569, Stop: 9554, Start Num: 12

Candidate Starts for Stickynote\_14:

(1, 7305), (2, 7341), (Start: 12 @7569 has 1 MA's), (15, 7623), (29, 7713), (34, 7737), (79, 7854), (88, 7875), (Start: 105 @7899 has 2 MA's), (138, 7962), (149, 7986), (212, 8148), (214, 8163), (215, 8181), (216, 8184), (223, 8208), (225, 8226), (241, 8283), (242, 8286), (252, 8328), (262, 8355), (268, 8373), (274, 8400), (279, 8418), (281, 8421), (299, 8475), (317, 8559), (322, 8583), (327, 8604), (345, 8676), (358, 8706), (367, 8757), (394, 8838), (404, 8871), (465, 9033), (502, 9135), (511, 9162), (514, 9171), (552, 9282), (591, 9345), (621, 9456), (624, 9465), (659, 9546),

Gene: Stink\_11 Start: 6849, Stop: 8546, Start Num: 62

Candidate Starts for Stink\_11:

(Start: 62 @6849 has 371 MA's), (Start: 81 @6873 has 1 MA's), (Start: 179 @7035 has 2 MA's), (213, 7119), (263, 7302), (265, 7305), (276, 7344), (299, 7413), (303, 7437), (308, 7467), (Start: 313 @7503 has 1 MA's), (335, 7593), (379, 7758), (389, 7803), (401, 7845), (408, 7878), (438, 7944), (464, 8019), (471, 8043), (498, 8109), (511, 8148), (516, 8169), (545, 8265), (636, 8502), (656, 8532), (658, 8535),

Gene: Strokeseat\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Strokeseat\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (560, 1946), (569, 1964), (576, 1979), (593, 2006), (605, 2039), (609, 2060), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Strosahl\_14 Start: 6647, Stop: 8344, Start Num: 63

Candidate Starts for Strosahl\_14:

(Start: 63 @6647 has 231 MA's), (78, 6665), (175, 6827), (248, 7052), (265, 7106), (299, 7214), (304, 7241), (Start: 313 @7304 has 1 MA's), (319, 7328), (471, 7844), (498, 7907), (512, 7949), (545, 8063), (599, 8168), (636, 8300), (654, 8327), (656, 8330), (658, 8333),

Gene: Stuu\_2 Start: 594, Stop: 2282, Start Num: 90

Candidate Starts for Stuu\_2:

(Start: 90 @594 has 17 MA's), (201, 795), (243, 939), (265, 1008), (295, 1095), (305, 1149), (312, 1188), (344, 1323), (371, 1425), (453, 1647), (464, 1698), (533, 1917), (545, 1953), (553, 1968), (624, 2193), (627, 2205), (634, 2220), (658, 2271),

Gene: SuMoo\_2 Start: 632, Stop: 2350, Start Num: 83

Candidate Starts for SuMoo\_2:

(Start: 83 @632 has 13 MA's), (243, 1004), (255, 1055), (265, 1073), (305, 1223), (316, 1277), (335, 1355), (347, 1403), (453, 1718), (494, 1853), (545, 2024), (553, 2039), (589, 2138), (609, 2204), (627, 2276),

Gene: Subaru\_2 Start: 534, Stop: 2240, Start Num: 84

Candidate Starts for Subaru\_2:

(Start: 84 @534 has 42 MA's), (Start: 137 @621 has 1 MA's), (247, 906), (265, 963), (270, 984), (280, 1011), (305, 1101), (316, 1155), (326, 1200), (344, 1275), (386, 1404), (409, 1488), (418, 1527), (464, 1650), (523, 1830), (531, 1863), (545, 1905), (553, 1920), (599, 2055), (609, 2091), (624, 2151), (627, 2163),

Gene: Success\_50 Start: 25807, Stop: 27369, Start Num: 105

Candidate Starts for Success\_50:

(Start: 105 @25807 has 2 MA's), (186, 25960), (255, 26191), (257, 26197), (265, 26209), (282, 26260), (305, 26356), (316, 26410), (317, 26413), (342, 26524), (412, 26752), (464, 26863), (468, 26875), (556, 27109), (570, 27145), (624, 27289), (643, 27334), (656, 27358),

Gene: Sudan\_7 Start: 2505, Stop: 4151, Start Num: 61

Candidate Starts for Sudan\_7:

(Start: 57 @2496 has 2 MA's), (Start: 61 @2505 has 11 MA's), (Start: 64 @2508 has 1 MA's), (Start: 75 @2523 has 21 MA's), (189, 2727), (203, 2763), (Start: 218 @2808 has 2 MA's), (246, 2901), (250, 2916), (255, 2943), (259, 2952), (266, 2964), (296, 3051), (304, 3099), (Start: 313 @3147 has 1 MA's), (338, 3246), (351, 3285), (389, 3399), (395, 3420), (405, 3459), (441, 3540), (464, 3609), (466, 3615), (470, 3630), (494, 3693), (532, 3825), (545, 3867), (558, 3894), (563, 3912), (595, 3960), (624, 4068),

Gene: Sue2\_2 Start: 539, Stop: 2245, Start Num: 87

Candidate Starts for Sue2\_2:

(9, 230), (10, 233), (13, 242), (45, 461), (Start: 87 @539 has 7 MA's), (265, 968), (276, 1010), (305, 1106), (308, 1130), (326, 1205), (339, 1265), (344, 1280), (418, 1532), (464, 1655), (468, 1667), (511, 1793), (516, 1814), (545, 1910), (553, 1925), (624, 2156), (627, 2168),

Gene: Sujidade\_7 Start: 2672, Stop: 4318, Start Num: 59

Candidate Starts for Sujidade\_7:

(Start: 59 @2672 has 85 MA's), (Start: 75 @2690 has 21 MA's), (189, 2894), (203, 2930), (255, 3110), (266, 3131), (296, 3218), (307, 3290), (Start: 313 @3314 has 1 MA's), (338, 3413), (342, 3428), (351, 3452), (353, 3458), (405, 3626), (464, 3776), (470, 3797), (502, 3887), (533, 3995), (545, 4034), (556, 4055), (558, 4061), (563, 4079), (624, 4235),

Gene: Sukkupi\_26 Start: 11957, Stop: 13684, Start Num: 99

Candidate Starts for Sukkupi\_26:

(Start: 99 @11957 has 202 MA's), (184, 12107), (197, 12158), (216, 12233), (219, 12242), (236, 12365), (241, 12383), (317, 12665), (323, 12692), (367, 12860), (371, 12872), (405, 12983), (476, 13166), (506, 13280), (511, 13295), (518, 13328), (547, 13403), (611, 13547), (621, 13589), (629, 13619), (651, 13661),

Gene: Sultana\_11 Start: 6885, Stop: 8582, Start Num: 62

Candidate Starts for Sultana\_11:

(Start: 62 @6885 has 371 MA's), (Start: 81 @6909 has 1 MA's), (Start: 148 @7032 has 2 MA's), (196, 7122), (213, 7155), (238, 7254), (263, 7338), (265, 7341), (276, 7380), (299, 7449), (303, 7473), (Start: 313 @7539 has 1 MA's), (335, 7629), (379, 7794), (401, 7881), (408, 7914), (438, 7980), (463, 8052), (464, 8055), (471, 8079), (494, 8130), (498, 8145), (511, 8184), (516, 8205), (545, 8301), (636, 8538), (656, 8568), (658, 8571),

Gene: SummitAcademy\_3 Start: 977, Stop: 2653, Start Num: 101

Candidate Starts for SummitAcademy\_3:

(Start: 101 @977 has 80 MA's), (Start: 137 @1028 has 1 MA's), (147, 1049), (177, 1094), (189, 1136), (203, 1172), (224, 1238), (250, 1334), (259, 1370), (265, 1379), (266, 1382), (278, 1430), (283, 1442), (305, 1529), (347, 1709), (362, 1763), (390, 1886), (406, 1943), (412, 1976), (455, 2042), (466, 2108), (468, 2114), (498, 2198), (523, 2279), (531, 2312), (558, 2381), (599, 2459), (600, 2462), (625, 2558), (632, 2579), (635, 2585), (656, 2639), (658, 2642),

Gene: Sumter\_10 Start: 6565, Stop: 8253, Start Num: 62

Candidate Starts for Sumter\_10:

(Start: 62 @6565 has 371 MA's), (213, 6829), (215, 6853), (265, 7015), (274, 7048), (299, 7123), (Start: 313 @7213 has 1 MA's), (319, 7237), (327, 7264), (337, 7312), (359, 7381), (379, 7468), (392, 7528), (472, 7753), (477, 7762), (481, 7774), (498, 7816), (505, 7837), (515, 7864), (545, 7972), (594, 8062), (621, 8167),

Gene: Sunhee\_10 Start: 6558, Stop: 8312, Start Num: 63

Candidate Starts for Sunhee\_10:

(Start: 63 @6558 has 231 MA's), (Start: 80 @6576 has 5 MA's), (131, 6663), (138, 6678), (143, 6687), (162, 6753), (172, 6783), (173, 6786), (189, 6837), (263, 7068), (265, 7071), (299, 7182), (303, 7206), (Start: 313 @7272 has 1 MA's), (319, 7296), (335, 7362), (357, 7428), (382, 7536), (400, 7611), (435, 7713), (464, 7788), (468, 7800), (471, 7812), (472, 7815), (475, 7821), (498, 7875), (545, 8031), (576, 8100), (636, 8268), (654, 8295), (659, 8304),

Gene: SunsetPointe\_6 Start: 2419, Stop: 4047, Start Num: 75

Candidate Starts for SunsetPointe\_6:

(Start: 59 @2401 has 85 MA's), (Start: 75 @2419 has 21 MA's), (189, 2623), (Start: 218 @2704 has 2 MA's), (255, 2839), (266, 2860), (296, 2947), (307, 3019), (Start: 313 @3043 has 1 MA's), (338, 3142), (357, 3196), (389, 3295), (405, 3355), (468, 3517), (470, 3526), (502, 3616), (511, 3643), (532, 3721), (533, 3724), (545, 3763), (556, 3784), (558, 3790), (563, 3808), (609, 3904), (624, 3964),

Gene: Sunshine924\_10 Start: 6548, Stop: 8236, Start Num: 62

Candidate Starts for Sunshine924\_10:

(Start: 62 @6548 has 371 MA's), (213, 6812), (215, 6836), (265, 6998), (274, 7031), (299, 7106), (308, 7160), (Start: 313 @7196 has 1 MA's), (319, 7220), (327, 7247), (337, 7295), (359, 7364), (379, 7451), (392, 7511), (477, 7745), (481, 7757), (498, 7799), (505, 7820), (515, 7847), (545, 7955), (594, 8045), (621, 8150),

Gene: SuperAwesome\_15 Start: 7523, Stop: 9277, Start Num: 63

Candidate Starts for SuperAwesome\_15:

(Start: 63 @7523 has 231 MA's), (173, 7754), (189, 7805), (203, 7841), (225, 7916), (265, 8039), (276, 8078), (299, 8147), (303, 8171), (304, 8174), (Start: 313 @8237 has 1 MA's), (319, 8261), (356, 8390), (357, 8393), (383, 8504), (432, 8666), (464, 8753), (468, 8765), (471, 8777), (498, 8840), (511, 8879), (516, 8900), (539, 8984), (545, 8996), (636, 9233), (654, 9260), (656, 9263),

Gene: SuperCallie99\_15 Start: 7524, Stop: 9278, Start Num: 63

Candidate Starts for SuperCallie99\_15:

(Start: 63 @7524 has 231 MA's), (173, 7755), (189, 7806), (203, 7842), (225, 7917), (265, 8040), (276, 8079), (299, 8148), (303, 8172), (304, 8175), (Start: 313 @8238 has 1 MA's), (319, 8262), (344, 8361), (345, 8364), (356, 8391), (357, 8394), (438, 8679), (468, 8766), (471, 8778), (498, 8841), (511, 8880), (516, 8901), (539, 8985), (545, 8997), (636, 9234), (654, 9261), (656, 9264),

Gene: SuperGrey\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for SuperGrey\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: SuperHands\_2 Start: 640, Stop: 2394, Start Num: 83

Candidate Starts for SuperHands\_2:

(Start: 83 @640 has 13 MA's), (97, 664), (243, 1006), (255, 1057), (265, 1075), (293, 1168), (305, 1225), (409, 1648), (464, 1810), (466, 1816), (523, 1990), (545, 2065), (553, 2080), (582, 2161), (618, 2284), (624, 2305), (627, 2317),

Gene: SuperSulley\_25 Start: 12984, Stop: 14714, Start Num: 99

Candidate Starts for SuperSulley\_25:

(Start: 99 @12984 has 202 MA's), (Start: 102 @12990 has 27 MA's), (184, 13134), (197, 13185), (200, 13191), (207, 13218), (212, 13230), (216, 13260), (223, 13284), (225, 13302), (317, 13695), (323, 13722), (367, 13890), (371, 13902), (380, 13935), (405, 14013), (488, 14229), (492, 14259), (506, 14310), (518, 14358), (547, 14433), (552, 14445), (567, 14481), (621, 14619), (629, 14649),

Gene: Superchunk\_11 Start: 6158, Stop: 7942, Start Num: 63

Candidate Starts for Superchunk\_11:

(Start: 63 @6158 has 231 MA's), (173, 6389), (203, 6476), (250, 6629), (263, 6671), (265, 6674), (299, 6785), (303, 6809), (304, 6812), (Start: 313 @6875 has 1 MA's), (319, 6899), (357, 7031), (475, 7451), (511, 7544), (516, 7565), (539, 7649), (545, 7661), (600, 7769), (636, 7898), (654, 7925), (656, 7928),

Gene: Superstar\_8 Start: 3315, Stop: 4961, Start Num: 59

Candidate Starts for Superstar\_8:

(Start: 59 @3315 has 85 MA's), (213, 3585), (221, 3627), (246, 3711), (255, 3753), (266, 3774), (296, 3861), (307, 3933), (Start: 313 @3957 has 1 MA's), (338, 4056), (347, 4092), (357, 4110), (395, 4230), (396, 4233), (405, 4269), (470, 4440), (475, 4452), (511, 4557), (533, 4638), (545, 4677), (556, 4698), (563, 4722), (624, 4878),

Gene: Survivors\_6 Start: 1843, Stop: 3543, Start Num: 101

Candidate Starts for Survivors\_6:

(Start: 101 @1843 has 80 MA's), (120, 1873), (147, 1915), (203, 2053), (219, 2101), (226, 2131), (238, 2164), (246, 2200), (250, 2215), (252, 2230), (265, 2260), (278, 2311), (305, 2410), (307, 2431), (326, 2500), (335, 2542), (343, 2572), (383, 2719), (391, 2770), (408, 2833), (412, 2857), (454, 2923), (460, 2956), (462, 2980), (463, 2983), (466, 2992), (472, 3013), (483, 3040), (498, 3085), (502, 3097), (504, 3103), (511, 3124), (519, 3163), (556, 3262), (571, 3298), (611, 3385), (632, 3466), (635, 3472), (656, 3529), (658, 3532),

Gene: SwagPigglett\_2 Start: 573, Stop: 2210, Start Num: 99

Candidate Starts for SwagPigglett\_2:

(Start: 99 @573 has 202 MA's), (Start: 105 @582 has 2 MA's), (Start: 115 @597 has 3 MA's), (Start: 127 @618 has 1 MA's), (Start: 144 @654 has 2 MA's), (146, 657), (153, 675), (185, 720), (200, 759), (222, 846), (233, 906), (245, 930), (248, 939), (249, 942), (252, 963), (258, 984), (267, 999), (282, 1056), (296, 1095), (306, 1164), (309, 1170), (317, 1200), (318, 1203), (319, 1212), (323, 1227), (327, 1245), (338, 1296), (364, 1389), (367, 1398), (417, 1569), (435, 1581), (464, 1665), (474, 1695), (476, 1698), (478, 1701), (498, 1758), (503, 1773), (505, 1779), (506, 1782), (511, 1797), (514, 1806), (524, 1845), (532, 1875), (543, 1905), (547, 1914), (560, 1947), (576, 1980), (593, 2007), (605, 2040), (612, 2070), (617, 2091), (621, 2115), (624, 2124), (625, 2127), (650, 2184),

Gene: Swann\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Swann\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (463, 4308), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: SweatNTears\_6 Start: 1637, Stop: 3316, Start Num: 101

Candidate Starts for SweatNTears\_6:

(Start: 101 @1637 has 80 MA's), (Start: 137 @1688 has 1 MA's), (147, 1709), (174, 1748), (203, 1835), (Start: 218 @1880 has 2 MA's), (224, 1901), (225, 1910), (246, 1982), (259, 2033), (265, 2042), (278, 2093), (305, 2192), (326, 2282), (362, 2426), (372, 2462), (383, 2501), (388, 2534), (401, 2582), (412, 2639), (436, 2672), (455, 2705), (466, 2771), (468, 2777), (493, 2843), (496, 2855), (523, 2942), (556, 3038), (587, 3086), (611, 3161), (632, 3242), (656, 3302), (658, 3305),

Gene: SweetiePie\_12 Start: 7386, Stop: 9173, Start Num: 63

Candidate Starts for SweetiePie\_12:

(Start: 63 @7386 has 231 MA's), (128, 7494), (138, 7515), (173, 7623), (191, 7683), (225, 7785), (263, 7905), (265, 7908), (299, 8016), (Start: 313 @8106 has 1 MA's), (319, 8130), (351, 8247), (357, 8262), (433, 8562), (502, 8748), (511, 8775), (516, 8796), (545, 8892), (636, 9129), (654, 9156), (656, 9159),

Gene: SwirlSquare\_14 Start: 6290, Stop: 8074, Start Num: 63

Candidate Starts for SwirlSquare\_14:

(Start: 63 @6290 has 231 MA's), (173, 6521), (203, 6608), (250, 6761), (263, 6803), (265, 6806), (299, 6917), (Start: 313 @7007 has 1 MA's), (319, 7031), (357, 7163), (359, 7175), (511, 7676), (516, 7697), (539, 7781), (545, 7793), (600, 7901), (636, 8030), (654, 8057), (656, 8060),

Gene: Swirley\_9 Start: 6131, Stop: 7909, Start Num: 37

Candidate Starts for Swirley\_9:

(Start: 37 @6131 has 19 MA's), (Start: 42 @6158 has 30 MA's), (73, 6227), (140, 6341), (143, 6347), (203, 6479), (225, 6554), (226, 6557), (238, 6590), (248, 6623), (284, 6731), (291, 6755), (299, 6788), (Start: 313 @6863 has 1 MA's), (324, 6908), (342, 6986), (344, 6992), (359, 7037), (385, 7157), (395, 7190), (401, 7211), (464, 7385), (471, 7409), (472, 7412), (498, 7472), (502, 7484), (511, 7511), (516, 7532), (539, 7616), (545, 7628), (636, 7865), (658, 7898), (660, 7904),

Gene: SwissCheese\_11 Start: 7010, Stop: 8698, Start Num: 62

Candidate Starts for SwissCheese\_11:

(Start: 62 @7010 has 371 MA's), (Start: 179 @7190 has 2 MA's), (213, 7274), (219, 7310), (265, 7460), (299, 7568), (Start: 313 @7658 has 1 MA's), (319, 7682), (337, 7757), (359, 7826), (379, 7913), (392, 7973), (477, 8207), (481, 8219), (498, 8261), (505, 8282), (515, 8309), (545, 8417), (594, 8507), (621, 8612),

Gene: Switzer\_12 Start: 6933, Stop: 8621, Start Num: 62

Candidate Starts for Switzer\_12:

(Start: 62 @6933 has 371 MA's), (213, 7197), (215, 7221), (253, 7356), (265, 7383), (274, 7416), (299, 7491), (Start: 313 @7581 has 1 MA's), (319, 7605), (327, 7632), (337, 7680), (359, 7749), (379, 7836), (391, 7893), (392, 7896), (472, 8121), (477, 8130), (481, 8142), (498, 8184), (505, 8205), (515, 8232), (545, 8340), (594, 8430), (621, 8535),

Gene: Switzerland\_14 Start: 6808, Stop: 8505, Start Num: 63

Candidate Starts for Switzerland\_14:

(Start: 63 @6808 has 231 MA's), (78, 6826), (175, 6988), (225, 7144), (248, 7213), (265, 7267), (299, 7375), (304, 7402), (Start: 313 @7465 has 1 MA's), (319, 7489), (471, 8005), (498, 8068), (512, 8110), (545, 8224), (599, 8329), (636, 8461), (654, 8488), (656, 8491), (658, 8494),

Gene: Swole\_13 Start: 7479, Stop: 9167, Start Num: 62

Candidate Starts for Swole\_13:

(Start: 62 @7479 has 371 MA's), (Start: 179 @7659 has 2 MA's), (213, 7743), (219, 7779), (225, 7806), (265, 7929), (299, 8037), (Start: 313 @8127 has 1 MA's), (319, 8151), (327, 8178), (337, 8226), (379, 8382), (392, 8442), (477, 8676), (481, 8688), (498, 8730), (505, 8751), (515, 8778), (545, 8886), (594, 8976), (621, 9081),

Gene: SydNat\_9 Start: 6265, Stop: 8016, Start Num: 42

Candidate Starts for SydNat\_9:

(Start: 37 @6238 has 19 MA's), (Start: 42 @6265 has 30 MA's), (73, 6334), (97, 6373), (140, 6448), (143, 6454), (203, 6586), (225, 6661), (226, 6664), (248, 6730), (284, 6838), (291, 6862), (Start: 313 @6970 has 1 MA's), (324, 7015), (342, 7093), (344, 7099), (345, 7102), (385, 7264), (386, 7270), (395, 7297), (464, 7492), (471, 7516), (498, 7579), (502, 7591), (511, 7618), (516, 7639), (531, 7693), (539, 7723), (545, 7735), (636, 7972), (658, 8005), (660, 8011),

Gene: TChen\_2 Start: 458, Stop: 2236, Start Num: 70

Candidate Starts for TChen\_2:

(Start: 70 @458 has 45 MA's), (104, 509), (117, 530), (130, 560), (Start: 134 @566 has 1 MA's), (142, 581), (165, 632), (187, 695), (189, 707), (203, 743), (219, 791), (223, 806), (225, 818), (227, 824), (245, 881), (246, 884), (248, 890), (251, 905), (254, 923), (255, 926), (265, 944), (305, 1085), (306, 1103), (Start: 313 @1130 has 1 MA's), (319, 1154), (326, 1187), (345, 1265), (367, 1355), (370, 1364), (374, 1379), (395, 1421), (396, 1424), (406, 1466), (408, 1475), (412, 1499), (439, 1541), (442, 1544), (456, 1568), (463, 1607), (464, 1610), (469, 1625), (475, 1643), (477, 1646), (501, 1727), (506, 1742), (507, 1745), (511, 1757), (519, 1796), (531, 1847), (533, 1853), (539, 1889), (545, 1901), (558, 1925), (569, 1952), (573, 1961), (575, 1964), (595, 2036), (609, 2084), (612, 2090), (618, 2123), (619, 2129), (621, 2135), (623, 2141), (624, 2144), (627, 2156), (634, 2174), (643, 2195), (652, 2213), (658, 2225),

Gene: TDanisky\_2 Start: 588, Stop: 2225, Start Num: 99

Candidate Starts for TDanisky\_2:

(Start: 99 @588 has 202 MA's), (109, 603), (Start: 115 @612 has 3 MA's), (118, 618), (Start: 134 @645 has 1 MA's), (Start: 144 @669 has 2 MA's), (146, 672), (185, 735), (189, 753), (200, 774), (222, 861), (223, 867), (233, 921), (241, 933), (245, 945), (248, 954), (249, 957), (252, 978), (258, 999), (282, 1071), (296, 1110), (306, 1179), (309, 1185), (317, 1215), (318, 1218), (319, 1227), (323, 1242), (327, 1260), (338, 1311), (367, 1413), (417, 1584), (435, 1596), (464, 1680), (474, 1710), (476, 1713), (478, 1716), (498, 1773), (503, 1788), (505, 1794), (506, 1797), (511, 1812), (514, 1821), (532, 1890), (543, 1920), (547, 1929), (560, 1962), (576, 1995), (593, 2022), (605, 2055), (611, 2082), (612, 2085), (617, 2106), (621, 2130), (624, 2139), (625, 2142), (650, 2199),

Gene: TNguyen7\_11 Start: 6466, Stop: 8163, Start Num: 62

Candidate Starts for TNguyen7\_11:

(Start: 62 @6466 has 371 MA's), (Start: 81 @6490 has 1 MA's), (109, 6538), (213, 6736), (225, 6799), (257, 6910), (265, 6922), (276, 6961), (283, 6973), (299, 7030), (303, 7054), (Start: 313 @7120 has 1 MA's), (316, 7129), (335, 7210), (342, 7237), (379, 7375), (401, 7462), (408, 7495), (438, 7561), (464, 7636), (471, 7660), (472, 7663), (475, 7669), (479, 7678), (494, 7711), (498, 7726), (516, 7786), (545, 7882), (563, 7927), (569, 7936), (625, 8089), (636, 8119), (656, 8149), (658, 8152),

Gene: TPA4\_2 Start: 526, Stop: 2238, Start Num: 98

Candidate Starts for TPA4\_2:

(52, 451), (Start: 67 @475 has 2 MA's), (86, 505), (98, 526), (114, 550), (135, 595), (165, 658), (201, 757), (203, 772), (228, 856), (239, 889), (242, 898), (265, 970), (292, 1048), (295, 1054), (306, 1126), (316, 1162), (328, 1219), (332, 1243), (456, 1585), (468, 1639), (475, 1660), (479, 1669), (497, 1738), (506, 1765), (507, 1768), (533, 1876), (539, 1909), (545, 1921), (598, 2044), (621, 2137), (623, 2143), (658, 2227),

Gene: TWAMP\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for TWAMP\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (463, 4308), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: TagePhighter\_7 Start: 2376, Stop: 4022, Start Num: 59

Candidate Starts for TagePhighter\_7:

(Start: 59 @2376 has 85 MA's), (Start: 75 @2394 has 21 MA's), (Start: 150 @2526 has 2 MA's), (189, 2598), (203, 2634), (255, 2814), (266, 2835), (282, 2880), (296, 2922), (307, 2994), (Start: 313 @3018 has 1 MA's), (338, 3117), (342, 3132), (351, 3156), (353, 3162), (405, 3330), (425, 3390), (464, 3480), (470, 3501), (502, 3591), (533, 3699), (545, 3738), (556, 3759), (558, 3765), (563, 3783), (624, 3939), (660, 4017),

Gene: Tailonex\_9 Start: 6694, Stop: 8352, Start Num: 81

Candidate Starts for Tailonex\_9:

(Start: 81 @6694 has 1 MA's), (Start: 148 @6814 has 2 MA's), (175, 6853), (213, 6946), (291, 7204), (296, 7216), (298, 7231), (305, 7267), (Start: 313 @7312 has 1 MA's), (319, 7336), (327, 7369), (357, 7474), (382, 7582), (386, 7612), (420, 7741), (523, 7996), (545, 8071), (635, 8305),

Gene: Taj\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Taj\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Takoda\_8 Start: 3148, Stop: 4830, Start Num: 66

Candidate Starts for Takoda\_8:

(Start: 66 @3148 has 35 MA's), (Start: 179 @3334 has 2 MA's), (203, 3406), (213, 3418), (215, 3442), (219, 3454), (269, 3622), (291, 3682), (Start: 313 @3790 has 1 MA's), (377, 4045), (395, 4117), (396, 4120), (456, 4261), (464, 4303), (475, 4336), (498, 4393), (502, 4405), (545, 4549), (563, 4594), (599, 4654), (624, 4753), (636, 4786), (654, 4813), (656, 4816), (658, 4819),

Gene: Tallboi\_2 Start: 534, Stop: 2240, Start Num: 84

Candidate Starts for Tallboi\_2:

(Start: 84 @534 has 42 MA's), (247, 906), (265, 963), (270, 984), (280, 1011), (305, 1101), (316, 1155), (326, 1200), (344, 1275), (409, 1488), (418, 1527), (464, 1650), (545, 1905), (553, 1920), (599, 2055), (609, 2091), (624, 2151), (627, 2163),

Gene: Taquarus\_11 Start: 6887, Stop: 8584, Start Num: 62

Candidate Starts for Taquarus\_11:

(Start: 62 @6887 has 371 MA's), (Start: 81 @6911 has 1 MA's), (Start: 148 @7034 has 2 MA's), (196, 7124), (213, 7157), (238, 7256), (263, 7340), (265, 7343), (276, 7382), (299, 7451), (303, 7475), (Start: 313 @7541 has 1 MA's), (335, 7631), (379, 7796), (401, 7883), (408, 7916), (438, 7982), (463, 8054), (464, 8057), (471, 8081), (494, 8132), (498, 8147), (511, 8186), (516, 8207), (545, 8303), (636, 8540), (656, 8570), (658, 8573),

Gene: Target\_13 Start: 7766, Stop: 9457, Start Num: 62

Candidate Starts for Target\_13:

(Start: 62 @7766 has 371 MA's), (Start: 179 @7946 has 2 MA's), (213, 8030), (223, 8081), (265, 8216), (299, 8327), (303, 8351), (Start: 313 @8417 has 1 MA's), (319, 8441), (362, 8609), (391, 8729), (392, 8732), (464, 8930), (472, 8957), (501, 9029), (505, 9041), (512, 9062), (527, 9119), (545, 9176), (594, 9266), (595, 9269), (624, 9380), (625, 9383), (636, 9413), (656, 9443), (658, 9446),

Gene: TarsusIV\_12 Start: 7454, Stop: 9241, Start Num: 63

Candidate Starts for TarsusIV\_12:

(Start: 63 @7454 has 231 MA's), (128, 7562), (138, 7583), (165, 7667), (173, 7691), (203, 7778), (221, 7832), (246, 7916), (263, 7973), (265, 7976), (299, 8084), (Start: 313 @8174 has 1 MA's), (319, 8198), (351, 8315), (357, 8330), (444, 8645), (464, 8717), (502, 8816), (511, 8843), (516, 8864), (545, 8960), (636, 9197), (656, 9227),

Gene: Tarynearal\_8 Start: 6158, Stop: 7936, Start Num: 37

Candidate Starts for Tarynearal\_8:

(Start: 37 @6158 has 19 MA's), (Start: 42 @6185 has 30 MA's), (73, 6254), (140, 6368), (143, 6374), (203, 6506), (225, 6581), (226, 6584), (238, 6617), (248, 6650), (284, 6758), (291, 6782), (299, 6815), (Start: 313 @6890 has 1 MA's), (324, 6935), (342, 7013), (344, 7019), (359, 7064), (395, 7217), (401, 7238), (464, 7412), (471, 7436), (472, 7439), (498, 7499), (502, 7511), (511, 7538), (516, 7559), (539, 7643), (545, 7655), (636, 7892), (658, 7925), (660, 7931),

Gene: Tasp14\_12 Start: 7250, Stop: 8938, Start Num: 62

Candidate Starts for Tasp14\_12:

(Start: 62 @7250 has 371 MA's), (Start: 179 @7430 has 2 MA's), (213, 7514), (219, 7550), (225, 7577), (265, 7700), (299, 7808), (Start: 313 @7898 has 1 MA's), (319, 7922), (327, 7949), (337, 7997), (359, 8066), (379, 8153), (392, 8213), (477, 8447), (481, 8459), (498, 8501), (505, 8522), (515, 8549), (545, 8657), (594, 8747), (621, 8852),

Gene: Taurus\_13 Start: 6955, Stop: 8655, Start Num: 65

Candidate Starts for Taurus\_13:

(Start: 65 @6955 has 85 MA's), (94, 7003), (175, 7138), (238, 7330), (265, 7417), (275, 7453), (Start: 313 @7615 has 1 MA's), (335, 7705), (356, 7768), (392, 7930), (464, 8128), (471, 8152), (472, 8155), (498, 8218), (505, 8239), (516, 8278), (545, 8374), (569, 8428), (594, 8464), (636, 8611), (656, 8641), (658, 8644),

Gene: Tbone\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for Tbone\_2:

(Start: 84 @533 has 42 MA's), (247, 905), (265, 962), (280, 1010), (305, 1100), (316, 1154), (344, 1274), (367, 1364), (418, 1526), (464, 1649), (545, 1904), (553, 1919), (599, 2054), (620, 2138), (627, 2162),

Gene: Tefunt\_6 Start: 2173, Stop: 3822, Start Num: 59

Candidate Starts for Tefunt\_6:

(Start: 59 @2173 has 85 MA's), (182, 2371), (189, 2398), (213, 2446), (Start: 218 @2479 has 2 MA's), (224, 2500), (250, 2587), (255, 2614), (266, 2635), (282, 2680), (296, 2722), (307, 2794), (Start: 313 @2818 has 1 MA's), (338, 2917), (347, 2953), (357, 2971), (395, 3091), (396, 3094), (405, 3130), (441, 3211), (470, 3301), (475, 3313), (494, 3364), (502, 3391), (511, 3418), (545, 3538), (556, 3559), (563, 3583), (599, 3643), (624, 3739), (660, 3817),

Gene: Temprado\_15 Start: 7533, Stop: 9287, Start Num: 63

Candidate Starts for Temprado\_15:

(Start: 63 @7533 has 231 MA's), (143, 7665), (173, 7764), (182, 7788), (189, 7815), (203, 7851), (225, 7926), (265, 8049), (269, 8064), (276, 8088), (299, 8157), (303, 8181), (304, 8184), (Start: 313 @8247 has 1 MA's), (319, 8271), (356, 8400), (357, 8403), (383, 8514), (432, 8676), (464, 8763), (468, 8775), (471, 8787), (494, 8835), (498, 8850), (511, 8889), (516, 8910), (539, 8994), (545, 9006), (636, 9243), (654, 9270), (656, 9273),

Gene: Teodoridan\_9 Start: 6381, Stop: 8069, Start Num: 62

Candidate Starts for Teodoridan\_9:

(Start: 62 @6381 has 371 MA's), (213, 6645), (215, 6669), (265, 6831), (274, 6864), (299, 6939), (Start: 313 @7029 has 1 MA's), (319, 7053), (337, 7128), (379, 7284), (382, 7293), (391, 7341), (392, 7344), (477, 7578), (481, 7590), (498, 7632), (505, 7653), (515, 7680), (545, 7788), (594, 7878), (621, 7983),

Gene: Terrific\_16 Start: 7938, Stop: 9725, Start Num: 63

Candidate Starts for Terrific\_16:

(16, 7752), (35, 7854), (Start: 63 @7938 has 231 MA's), (128, 8046), (138, 8067), (173, 8175), (265, 8460), (299, 8568), (Start: 313 @8658 has 1 MA's), (319, 8682), (357, 8814), (463, 9198), (464, 9201), (511, 9327), (516, 9348), (539, 9432), (545, 9444), (636, 9681), (654, 9708), (656, 9711), (658, 9714), (659, 9717),

Gene: Tesla\_34 Start: 10743, Stop: 12485, Start Num: 101

Candidate Starts for Tesla\_34:

(Start: 101 @10743 has 80 MA's), (175, 10860), (189, 10905), (206, 10971), (208, 10986), (215, 11019), (216, 11022), (221, 11037), (226, 11061), (227, 11064), (238, 11094), (244, 11115), (246, 11133), (249, 11142), (256, 11178), (265, 11193), (278, 11238), (296, 11280), (301, 11319), (305, 11331), (307, 11352), (320, 11403), (327, 11424), (388, 11646), (412, 11751), (414, 11760), (447, 11793), (455, 11814), (456, 11817), (460, 11844), (464, 11874), (468, 11886), (472, 11901), (477, 11910), (479, 11916), (493, 11958), (495, 11967), (500, 11982), (505, 11997), (523, 12057), (531, 12096), (540, 12129), (556, 12159), (557, 12162), (583, 12246), (599, 12300), (604, 12315), (612, 12342), (624, 12396), (654, 12468), (656, 12471),

Gene: Texage\_11 Start: 7044, Stop: 8741, Start Num: 62

Candidate Starts for Texage\_11:

(Start: 62 @7044 has 371 MA's), (Start: 81 @7068 has 1 MA's), (213, 7314), (257, 7488), (265, 7500), (276, 7539), (283, 7551), (299, 7608), (303, 7632), (Start: 313 @7698 has 1 MA's), (316, 7707), (335, 7788), (344, 7821), (379, 7953), (383, 7965), (395, 8019), (401, 8040), (408, 8073), (432, 8127), (464, 8214), (471, 8238), (472, 8241), (475, 8247), (479, 8256), (498, 8304), (511, 8343), (512, 8346), (516, 8364), (545, 8460), (569, 8514), (625, 8667), (636, 8697), (656, 8727), (658, 8730),

Gene: TforTroy\_2 Start: 547, Stop: 2244, Start Num: 84

Candidate Starts for TforTroy\_2:

(Start: 84 @547 has 42 MA's), (Start: 90 @556 has 17 MA's), (Start: 137 @634 has 1 MA's), (247, 919), (265, 976), (276, 1018), (305, 1114), (316, 1168), (344, 1288), (367, 1378), (464, 1663), (502, 1774), (523, 1843), (545, 1918), (553, 1933), (599, 2059), (620, 2143), (627, 2167),

Gene: Thanksgivukkah\_11 Start: 6889, Stop: 8586, Start Num: 62

Candidate Starts for Thanksgivukkah\_11:

(Start: 62 @6889 has 371 MA's), (Start: 81 @6913 has 1 MA's), (Start: 148 @7036 has 2 MA's), (196, 7126), (213, 7159), (238, 7258), (263, 7342), (265, 7345), (276, 7384), (299, 7453), (303, 7477), (Start: 313 @7543 has 1 MA's), (335, 7633), (379, 7798), (401, 7885), (408, 7918), (438, 7984), (463, 8056), (464, 8059), (471, 8083), (494, 8134), (498, 8149), (511, 8188), (516, 8209), (545, 8305), (636, 8542), (656, 8572), (658, 8575),

Gene: Theia\_8 Start: 6097, Stop: 7875, Start Num: 37

Candidate Starts for Theia\_8:

(Start: 37 @6097 has 19 MA's), (Start: 42 @6124 has 30 MA's), (73, 6193), (140, 6307), (143, 6313), (203, 6445), (225, 6520), (226, 6523), (238, 6556), (248, 6589), (284, 6697), (291, 6721), (299, 6754), (Start: 313 @6829 has 1 MA's), (324, 6874), (342, 6952), (344, 6958), (385, 7123), (395, 7156), (401, 7177), (464, 7351), (471, 7375), (472, 7378), (498, 7438), (502, 7450), (511, 7477), (516, 7498), (539, 7582), (545, 7594), (595, 7687), (636, 7831), (658, 7864), (660, 7870),

Gene: TheloniousMonk\_13 Start: 7993, Stop: 9681, Start Num: 62

Candidate Starts for TheloniousMonk\_13:

(Start: 62 @7993 has 371 MA's), (213, 8257), (215, 8281), (265, 8443), (274, 8476), (299, 8551), (Start: 313 @8641 has 1 MA's), (319, 8665), (327, 8692), (337, 8740), (359, 8809), (375, 8884), (379, 8896), (392, 8956), (472, 9181), (477, 9190), (481, 9202), (498, 9244), (505, 9265), (515, 9292), (545, 9400), (594, 9490), (621, 9595),

Gene: Thestral\_7 Start: 2249, Stop: 3895, Start Num: 59

Candidate Starts for Thestral\_7:

(Start: 59 @2249 has 85 MA's), (213, 2519), (215, 2543), (Start: 218 @2552 has 2 MA's), (246, 2645), (250, 2660), (255, 2687), (266, 2708), (296, 2795), (307, 2867), (Start: 313 @2891 has 1 MA's), (338, 2990), (347, 3026), (376, 3131), (396, 3167), (405, 3203), (409, 3221), (463, 3350), (464, 3353), (468, 3365), (470, 3374), (473, 3383), (502, 3464), (511, 3491), (517, 3518), (533, 3572), (545, 3611), (556, 3632), (563, 3656), (599, 3716), (624, 3812), (660, 3890),

Gene: ThetaBob\_2 Start: 458, Stop: 2236, Start Num: 70

Candidate Starts for ThetaBob\_2:

(Start: 70 @458 has 45 MA's), (104, 509), (117, 530), (130, 560), (Start: 134 @566 has 1 MA's), (142, 581), (165, 632), (187, 695), (189, 707), (203, 743), (219, 791), (223, 806), (225, 818), (227, 824), (245, 881), (246, 884), (248, 890), (251, 905), (254, 923), (255, 926), (265, 944), (305, 1085), (306, 1103), (Start: 313 @1130 has 1 MA's), (319, 1154), (326, 1187), (345, 1265), (367, 1355), (370, 1364), (374, 1379), (395, 1421), (396, 1424), (406, 1466), (408, 1475), (412, 1499), (439, 1541), (442, 1544), (456, 1568), (463, 1607), (464, 1610), (469, 1625), (475, 1643), (477, 1646), (501, 1727), (506, 1742), (507, 1745), (511, 1757), (519, 1796), (531, 1847), (533, 1853), (539, 1889), (545, 1901), (558, 1925), (569, 1952), (573, 1961), (575, 1964), (595, 2036), (609, 2084), (612, 2090), (618, 2123), (619, 2129), (621, 2135), (623, 2141), (624, 2144), (627, 2156), (634, 2174), (643, 2195), (652, 2213), (658, 2225),

Gene: Thor\_11 Start: 6833, Stop: 8521, Start Num: 62

Candidate Starts for Thor\_11:

(Start: 62 @6833 has 371 MA's), (Start: 179 @7013 has 2 MA's), (213, 7097), (219, 7133), (225, 7160), (265, 7283), (274, 7316), (299, 7391), (Start: 313 @7481 has 1 MA's), (319, 7505), (327, 7532), (337,

7580), (379, 7736), (382, 7745), (392, 7796), (477, 8030), (481, 8042), (498, 8084), (505, 8105), (515, 8132), (545, 8240), (594, 8330), (621, 8435),

Gene: ThursdayNight\_2 Start: 546, Stop: 2285, Start Num: 58

Candidate Starts for ThursdayNight\_2:

(Start: 58 @546 has 3 MA's), (186, 762), (238, 924), (243, 942), (250, 966), (265, 1011), (280, 1059), (305, 1152), (367, 1416), (391, 1473), (409, 1539), (453, 1650), (472, 1728), (545, 1956), (553, 1971), (576, 2025), (581, 2049), (609, 2136), (627, 2208), (634, 2223),

Gene: Tian\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for Tian\_2:

(Start: 84 @533 has 42 MA's), (126, 599), (247, 905), (265, 962), (270, 983), (280, 1010), (305, 1100), (316, 1154), (326, 1199), (344, 1274), (418, 1526), (464, 1649), (523, 1829), (545, 1904), (553, 1919), (599, 2054), (624, 2150), (627, 2162),

Gene: Tiffany\_13 Start: 6851, Stop: 8551, Start Num: 65

Candidate Starts for Tiffany\_13:

(Start: 65 @6851 has 85 MA's), (94, 6899), (175, 7034), (238, 7226), (265, 7313), (Start: 313 @7511 has 1 MA's), (335, 7601), (356, 7664), (392, 7826), (464, 8024), (471, 8048), (472, 8051), (498, 8114), (505, 8135), (516, 8174), (545, 8270), (569, 8324), (594, 8360), (636, 8507), (656, 8537), (658, 8540),

Gene: Tiger\_9 Start: 6005, Stop: 7756, Start Num: 42

Candidate Starts for Tiger\_9:

(Start: 37 @5978 has 19 MA's), (Start: 42 @6005 has 30 MA's), (73, 6074), (97, 6113), (140, 6188), (143, 6194), (203, 6326), (225, 6401), (226, 6404), (269, 6539), (284, 6578), (291, 6602), (Start: 313 @6710 has 1 MA's), (324, 6755), (342, 6833), (344, 6839), (385, 7004), (395, 7037), (401, 7058), (464, 7232), (471, 7256), (472, 7259), (498, 7319), (502, 7331), (511, 7358), (516, 7379), (539, 7463), (545, 7475), (636, 7712), (658, 7745), (660, 7751),

Gene: Timothy\_12 Start: 8024, Stop: 9787, Start Num: 63

Candidate Starts for Timothy\_12:

(Start: 63 @8024 has 231 MA's), (Start: 80 @8045 has 5 MA's), (128, 8132), (173, 8261), (182, 8285), (203, 8348), (248, 8492), (263, 8543), (265, 8546), (299, 8657), (303, 8681), (304, 8684), (Start: 313 @8747 has 1 MA's), (316, 8756), (319, 8771), (351, 8888), (357, 8903), (368, 8963), (389, 9047), (438, 9188), (468, 9275), (471, 9287), (494, 9335), (498, 9350), (511, 9389), (516, 9410), (527, 9449), (539, 9494), (545, 9506), (636, 9743), (654, 9770),

Gene: Timshel\_12 Start: 8311, Stop: 10005, Start Num: 62

Candidate Starts for Timshel\_12:

(Start: 62 @8311 has 371 MA's), (168, 8479), (189, 8530), (213, 8578), (225, 8641), (238, 8677), (248, 8710), (257, 8752), (265, 8764), (269, 8779), (276, 8803), (299, 8872), (Start: 313 @8962 has 1 MA's), (316, 8971), (357, 9118), (379, 9217), (391, 9274), (401, 9304), (463, 9475), (464, 9478), (471, 9502), (472, 9505), (501, 9577), (516, 9628), (545, 9724), (558, 9751), (569, 9778), (625, 9931), (636, 9961), (656, 9991),

Gene: TinaBelcher\_6 Start: 2200, Stop: 3846, Start Num: 59

Candidate Starts for TinaBelcher\_6:

(Start: 59 @2200 has 85 MA's), (120, 2296), (213, 2470), (215, 2494), (Start: 218 @2503 has 2 MA's), (246, 2596), (250, 2611), (255, 2638), (266, 2659), (296, 2746), (307, 2818), (Start: 313 @2842 has 1 MA's), (338, 2941), (347, 2977), (376, 3082), (396, 3118), (405, 3154), (409, 3172), (463, 3301), (464, 3304), (468, 3316), (470, 3325), (473, 3334), (502, 3415), (511, 3442), (517, 3469), (533, 3523), (545, 3562), (556, 3583), (563, 3607), (576, 3631), (599, 3667), (624, 3763), (660, 3841),

Gene: TinaFeyge\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for TinaFeyge\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: TinyPebbles\_13 Start: 7040, Stop: 8740, Start Num: 65

Candidate Starts for TinyPebbles\_13:

(Start: 65 @7040 has 85 MA's), (94, 7088), (175, 7223), (238, 7415), (265, 7502), (Start: 313 @7700 has 1 MA's), (335, 7790), (356, 7853), (392, 8015), (464, 8213), (471, 8237), (472, 8240), (498, 8303), (505, 8324), (516, 8363), (545, 8459), (569, 8513), (594, 8549), (636, 8696), (656, 8726), (658, 8729),

Gene: TinyTimmy\_12 Start: 8076, Stop: 9839, Start Num: 63

Candidate Starts for TinyTimmy\_12:

(Start: 63 @8076 has 231 MA's), (Start: 80 @8097 has 5 MA's), (128, 8184), (173, 8313), (182, 8337), (203, 8400), (248, 8544), (263, 8595), (265, 8598), (299, 8709), (303, 8733), (304, 8736), (Start: 313 @8799 has 1 MA's), (316, 8808), (319, 8823), (351, 8940), (357, 8955), (368, 9015), (389, 9099), (468, 9327), (471, 9339), (494, 9387), (498, 9402), (511, 9441), (516, 9462), (527, 9501), (539, 9546), (545, 9558), (636, 9795), (654, 9822),

Gene: Tinybot\_10 Start: 6864, Stop: 8561, Start Num: 62

Candidate Starts for Tinybot\_10:

(Start: 62 @6864 has 371 MA's), (Start: 81 @6888 has 1 MA's), (Start: 148 @7011 has 2 MA's), (196, 7101), (213, 7134), (238, 7233), (263, 7317), (265, 7320), (276, 7359), (299, 7428), (303, 7452), (Start: 313 @7518 has 1 MA's), (335, 7608), (379, 7773), (401, 7860), (408, 7893), (438, 7959), (463, 8031), (464, 8034), (471, 8058), (494, 8109), (498, 8124), (511, 8163), (516, 8184), (545, 8280), (636, 8517), (656, 8547), (658, 8550),

Gene: TipsytheTRex\_11 Start: 6516, Stop: 8297, Start Num: 63

Candidate Starts for TipsytheTRex\_11:

(Start: 63 @6516 has 231 MA's), (Start: 148 @6660 has 2 MA's), (160, 6705), (173, 6747), (203, 6834), (221, 6888), (263, 7029), (265, 7032), (276, 7071), (299, 7140), (Start: 313 @7230 has 1 MA's), (319, 7254), (356, 7383), (357, 7386), (511, 7899), (516, 7920), (539, 8004), (545, 8016), (636, 8253), (654, 8280), (656, 8283), (658, 8286),

Gene: TiroTheta9\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for TiroTheta9\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Toaka\_11 Start: 6489, Stop: 8273, Start Num: 63

Candidate Starts for Toaka\_11:

(Start: 63 @6489 has 231 MA's), (143, 6618), (173, 6717), (175, 6723), (182, 6741), (225, 6879), (248, 6951), (265, 7005), (276, 7044), (299, 7116), (Start: 313 @7206 has 1 MA's), (319, 7230), (351, 7347), (357, 7362), (382, 7470), (400, 7545), (423, 7641), (468, 7761), (475, 7782), (511, 7875), (516, 7896), (531, 7950), (539, 7980), (545, 7992), (600, 8100), (615, 8151), (636, 8229), (654, 8256), (656, 8259),

Gene: Todacoro\_12 Start: 7044, Stop: 8741, Start Num: 62

Candidate Starts for Todacoro\_12:

(Start: 62 @7044 has 371 MA's), (Start: 81 @7068 has 1 MA's), (213, 7314), (257, 7488), (265, 7500), (276, 7539), (283, 7551), (299, 7608), (303, 7632), (Start: 313 @7698 has 1 MA's), (316, 7707), (335, 7788), (344, 7821), (379, 7953), (383, 7965), (395, 8019), (401, 8040), (408, 8073), (432, 8127), (464, 8214), (471, 8238), (472, 8241), (475, 8247), (479, 8256), (498, 8304), (511, 8343), (512, 8346), (516, 8364), (545, 8460), (569, 8514), (625, 8667), (636, 8697), (656, 8727), (658, 8730),

Gene: Tolls\_6 Start: 1121, Stop: 2800, Start Num: 101

Candidate Starts for Tolls\_6:

(Start: 101 @1121 has 80 MA's), (Start: 137 @1172 has 1 MA's), (147, 1193), (Start: 148 @1196 has 2 MA's), (177, 1238), (201, 1304), (Start: 218 @1364 has 2 MA's), (224, 1385), (225, 1394), (250, 1481), (259, 1517), (265, 1526), (278, 1577), (305, 1676), (307, 1697), (316, 1730), (326, 1766), (362, 1910), (372, 1946), (383, 1985), (414, 2132), (436, 2156), (466, 2255), (496, 2339), (523, 2426), (556, 2522), (587, 2570), (596, 2594), (611, 2645), (632, 2726), (656, 2786), (658, 2789),

Gene: Toma\_6 Start: 2395, Stop: 4023, Start Num: 75

Candidate Starts for Toma\_6:

(Start: 59 @2377 has 85 MA's), (Start: 75 @2395 has 21 MA's), (189, 2599), (203, 2635), (255, 2815), (266, 2836), (296, 2923), (307, 2995), (Start: 313 @3019 has 1 MA's), (338, 3118), (342, 3133), (351, 3157), (353, 3163), (405, 3331), (425, 3391), (464, 3481), (470, 3502), (502, 3592), (516, 3640), (545, 3739), (556, 3760), (558, 3766), (563, 3784), (624, 3940),

Gene: Tomathan\_15 Start: 7375, Stop: 9162, Start Num: 63

Candidate Starts for Tomathan\_15:

(22, 7216), (26, 7243), (Start: 63 @7375 has 231 MA's), (128, 7483), (138, 7504), (160, 7570), (173, 7612), (203, 7699), (263, 7894), (265, 7897), (299, 8005), (Start: 313 @8095 has 1 MA's), (319, 8119), (344, 8218), (356, 8248), (357, 8251), (383, 8362), (433, 8551), (494, 8710), (498, 8725), (502, 8737), (511, 8764), (516, 8785), (539, 8869), (545, 8881), (594, 8971), (636, 9118), (654, 9145), (656, 9148),

Gene: ToneTone\_14 Start: 7446, Stop: 9200, Start Num: 63

Candidate Starts for ToneTone\_14:

(Start: 63 @7446 has 231 MA's), (143, 7578), (173, 7677), (182, 7701), (189, 7728), (203, 7764), (225, 7839), (265, 7962), (269, 7977), (276, 8001), (299, 8070), (303, 8094), (304, 8097), (Start: 313 @8160 has 1 MA's), (319, 8184), (356, 8313), (357, 8316), (383, 8427), (432, 8589), (464, 8676), (468, 8688), (471, 8700), (494, 8748), (498, 8763), (511, 8802), (516, 8823), (539, 8907), (545, 8919), (636, 9156), (654, 9183), (656, 9186),

Gene: Toniann\_30 Start: 8628, Stop: 10376, Start Num: 102

Candidate Starts for Toniann\_30:

(Start: 102 @8628 has 27 MA's), (120, 8658), (187, 8787), (235, 8973), (241, 9012), (249, 9036), (254, 9066), (263, 9084), (271, 9111), (280, 9141), (326, 9333), (329, 9351), (370, 9513), (390, 9561), (396, 9576), (453, 9759), (455, 9765), (471, 9849), (501, 9936), (512, 9969), (541, 10083), (558, 10119), (569, 10143), (579, 10158), (640, 10332), (644, 10338),

Gene: Topanga\_11 Start: 6816, Stop: 8507, Start Num: 62

Candidate Starts for Topanga\_11:

(Start: 62 @6816 has 371 MA's), (Start: 81 @6840 has 1 MA's), (Start: 148 @6963 has 2 MA's), (203, 7083), (213, 7095), (222, 7140), (238, 7194), (246, 7221), (250, 7236), (265, 7281), (276, 7320), (296, 7368), (299, 7389), (303, 7413), (Start: 313 @7464 has 1 MA's), (344, 7587), (379, 7719), (397, 7794), (408, 7839), (438, 7905), (464, 7980), (471, 8004), (498, 8070), (511, 8109), (512, 8112), (516, 8130), (545, 8226), (576, 8295), (636, 8463), (656, 8493), (658, 8496),

Gene: Topgun\_11 Start: 6738, Stop: 8426, Start Num: 62

Candidate Starts for Topgun\_11:

(Start: 62 @6738 has 371 MA's), (213, 7002), (215, 7026), (265, 7188), (274, 7221), (299, 7296),  
(Start: 313 @7386 has 1 MA's), (319, 7410), (337, 7485), (379, 7641), (382, 7650), (391, 7698), (392,  
7701), (477, 7935), (481, 7947), (498, 7989), (505, 8010), (515, 8037), (545, 8145), (594, 8235), (621,  
8340),

Gene: Topiatin\_4 Start: 1235, Stop: 2872, Start Num: 99

Candidate Starts for Topiatin\_4:

(Start: 99 @1235 has 202 MA's), (109, 1250), (Start: 115 @1259 has 3 MA's), (118, 1265), (Start: 134  
@1292 has 1 MA's), (Start: 144 @1316 has 2 MA's), (146, 1319), (185, 1382), (189, 1400), (200,  
1421), (222, 1508), (223, 1514), (233, 1568), (241, 1580), (245, 1592), (248, 1601), (249, 1604), (252,  
1625), (258, 1646), (267, 1661), (282, 1718), (296, 1757), (306, 1826), (309, 1832), (317, 1862), (318,  
1865), (319, 1874), (323, 1889), (327, 1907), (338, 1958), (367, 2060), (417, 2231), (435, 2243), (464,  
2327), (474, 2357), (476, 2360), (478, 2363), (498, 2420), (503, 2435), (505, 2441), (506, 2444), (511,  
2459), (514, 2468), (532, 2537), (543, 2567), (547, 2576), (560, 2609), (576, 2642), (593, 2669), (605,  
2702), (612, 2732), (617, 2753), (621, 2777), (624, 2786), (625, 2789), (650, 2846),

Gene: Toro\_14 Start: 8301, Stop: 10001, Start Num: 62

Candidate Starts for Toro\_14:

(Start: 62 @8301 has 371 MA's), (Start: 102 @8364 has 27 MA's), (186, 8508), (196, 8538), (213,  
8571), (225, 8634), (265, 8757), (269, 8772), (299, 8865), (303, 8889), (Start: 313 @8955 has 1 MA's),  
(357, 9111), (379, 9210), (401, 9297), (408, 9330), (432, 9384), (441, 9399), (463, 9468), (464, 9471),  
(471, 9495), (502, 9573), (545, 9717), (563, 9762), (600, 9825), (625, 9924), (636, 9954), (656, 9987),

Gene: Toron\_2 Start: 458, Stop: 2236, Start Num: 70

Candidate Starts for Toron\_2:

(Start: 70 @458 has 45 MA's), (82, 479), (104, 509), (117, 530), (130, 560), (Start: 134 @566 has 1  
MA's), (142, 581), (165, 632), (187, 695), (189, 707), (203, 743), (219, 791), (223, 806), (225, 818),  
(227, 824), (245, 881), (246, 884), (248, 890), (251, 905), (254, 923), (255, 926), (265, 944), (305,  
1085), (306, 1103), (Start: 313 @1130 has 1 MA's), (319, 1154), (326, 1187), (345, 1265), (370, 1364),  
(374, 1379), (395, 1421), (401, 1442), (406, 1466), (408, 1475), (412, 1499), (439, 1541), (442, 1544),  
(456, 1568), (463, 1607), (464, 1610), (469, 1625), (475, 1643), (501, 1727), (506, 1742), (507, 1745),  
(511, 1757), (519, 1796), (531, 1847), (533, 1853), (539, 1889), (545, 1901), (558, 1925), (569, 1952),  
(575, 1964), (584, 2000), (595, 2036), (609, 2084), (612, 2090), (618, 2123), (619, 2129), (621, 2135),  
(623, 2141), (624, 2144), (627, 2156), (634, 2174), (643, 2195), (652, 2213), (658, 2225),

Gene: Tote\_13 Start: 7479, Stop: 9167, Start Num: 62

Candidate Starts for Tote\_13:

(Start: 62 @7479 has 371 MA's), (Start: 179 @7659 has 2 MA's), (213, 7743), (219, 7779), (225, 7806),  
(265, 7929), (299, 8037), (Start: 313 @8127 has 1 MA's), (319, 8151), (327, 8178), (337, 8226), (379,  
8382), (392, 8442), (477, 8676), (481, 8688), (498, 8730), (505, 8751), (515, 8778), (545, 8886), (594,  
8976), (621, 9081),

Gene: TouchMeNot\_3 Start: 1236, Stop: 2873, Start Num: 121

Candidate Starts for TouchMeNot\_3:

(Start: 121 @1236 has 5 MA's), (132, 1260), (163, 1338), (186, 1404), (219, 1503), (224, 1521), (225,  
1530), (227, 1536), (241, 1584), (243, 1590), (246, 1599), (255, 1641), (257, 1647), (259, 1650), (265,  
1659), (288, 1737), (Start: 313 @1854 has 1 MA's), (317, 1866), (318, 1869), (319, 1878), (335, 1941),  
(357, 2013), (362, 2046), (391, 2124), (427, 2235), (456, 2280), (496, 2412), (498, 2418), (536, 2550),  
(545, 2589), (594, 2679), (603, 2706), (623, 2787), (627, 2802), (628, 2805), (634, 2814), (658, 2862),

Gene: Towmatter\_11 Start: 4822, Stop: 6558, Start Num: 102

Candidate Starts for Towmatter\_11:

(Start: 102 @4822 has 27 MA's), (113, 4837), (143, 4894), (177, 4951), (221, 5083), (238, 5194), (249, 5230), (277, 5326), (Start: 313 @5470 has 1 MA's), (320, 5497), (329, 5545), (391, 5752), (404, 5797), (455, 5950), (498, 6112), (523, 6193), (541, 6268), (579, 6340), (599, 6376), (609, 6412), (624, 6472),

Gene: Tracker\_24 Start: 11932, Stop: 13659, Start Num: 96

Candidate Starts for Tracker\_24:

(19, 11698), (43, 11827), (Start: 96 @11932 has 12 MA's), (184, 12082), (197, 12133), (200, 12139), (212, 12178), (216, 12208), (223, 12232), (225, 12250), (229, 12277), (236, 12340), (241, 12358), (317, 12643), (323, 12670), (343, 12754), (367, 12838), (371, 12850), (380, 12883), (405, 12961), (444, 13039), (464, 13111), (476, 13144), (492, 13207), (498, 13234), (506, 13258), (514, 13282), (547, 13381), (567, 13429), (621, 13567), (629, 13597), (659, 13651),

Gene: Traft412\_13 Start: 7666, Stop: 9354, Start Num: 62

Candidate Starts for Traft412\_13:

(Start: 62 @7666 has 371 MA's), (213, 7930), (215, 7954), (265, 8116), (274, 8149), (299, 8224), (Start: 313 @8314 has 1 MA's), (319, 8338), (327, 8365), (337, 8413), (379, 8569), (392, 8629), (477, 8863), (481, 8875), (498, 8917), (505, 8938), (515, 8965), (545, 9073), (594, 9163), (621, 9268),

Gene: Travvers\_15 Start: 7375, Stop: 9162, Start Num: 63

Candidate Starts for Travvers\_15:

(22, 7216), (26, 7243), (Start: 63 @7375 has 231 MA's), (128, 7483), (138, 7504), (160, 7570), (173, 7612), (203, 7699), (263, 7894), (265, 7897), (299, 8005), (Start: 313 @8095 has 1 MA's), (319, 8119), (344, 8218), (356, 8248), (357, 8251), (383, 8362), (433, 8551), (494, 8710), (498, 8725), (502, 8737), (511, 8764), (516, 8785), (539, 8869), (545, 8881), (594, 8971), (636, 9118), (654, 9145), (656, 9148),

Gene: Treddle\_13 Start: 7975, Stop: 9663, Start Num: 70

Candidate Starts for Treddle\_13:

(Start: 70 @7975 has 45 MA's), (Start: 179 @8155 has 2 MA's), (213, 8239), (216, 8266), (219, 8275), (265, 8425), (274, 8458), (299, 8533), (Start: 313 @8623 has 1 MA's), (319, 8647), (327, 8674), (337, 8722), (379, 8878), (392, 8938), (477, 9172), (481, 9184), (498, 9226), (505, 9247), (515, 9274), (545, 9382), (594, 9472), (621, 9577),

Gene: Trike\_9 Start: 4773, Stop: 6464, Start Num: 62

Candidate Starts for Trike\_9:

(Start: 62 @4773 has 371 MA's), (Start: 81 @4797 has 1 MA's), (Start: 148 @4920 has 2 MA's), (189, 5004), (203, 5040), (213, 5052), (221, 5094), (250, 5193), (265, 5238), (276, 5277), (296, 5325), (299, 5346), (303, 5370), (Start: 313 @5421 has 1 MA's), (344, 5544), (384, 5691), (397, 5751), (408, 5796), (464, 5937), (484, 5991), (498, 6027), (511, 6066), (516, 6087), (545, 6183), (576, 6252), (636, 6420), (656, 6450), (658, 6453),

Gene: Tripl3t\_12 Start: 7661, Stop: 9349, Start Num: 62

Candidate Starts for Tripl3t\_12:

(Start: 62 @7661 has 371 MA's), (213, 7925), (215, 7949), (253, 8084), (265, 8111), (274, 8144), (299, 8219), (Start: 313 @8309 has 1 MA's), (319, 8333), (327, 8360), (337, 8408), (379, 8564), (382, 8573), (392, 8624), (472, 8849), (477, 8858), (481, 8870), (498, 8912), (505, 8933), (515, 8960), (545, 9068), (594, 9158), (621, 9263),

Gene: Tristan\_13 Start: 9212, Stop: 10990, Start Num: 63

Candidate Starts for Tristan\_13:

(Start: 63 @9212 has 231 MA's), (Start: 80 @9230 has 5 MA's), (143, 9341), (Start: 148 @9353 has 2 MA's), (159, 9395), (162, 9407), (165, 9416), (173, 9440), (203, 9527), (263, 9722), (265, 9725), (276, 9764), (299, 9833), (Start: 313 @9923 has 1 MA's), (319, 9947), (344, 10046), (357, 10079), (433, 10379), (464, 10466), (502, 10565), (511, 10592), (516, 10613), (545, 10709), (636, 10946), (654,

10973), (656, 10976),

Gene: Triste\_6 Start: 2377, Stop: 4023, Start Num: 59

Candidate Starts for Triste\_6:

(Start: 59 @2377 has 85 MA's), (Start: 75 @2395 has 21 MA's), (Start: 150 @2527 has 2 MA's), (189, 2599), (203, 2635), (255, 2815), (266, 2836), (282, 2881), (296, 2923), (307, 2995), (Start: 313 @3019 has 1 MA's), (338, 3118), (342, 3133), (351, 3157), (353, 3163), (405, 3331), (464, 3481), (470, 3502), (494, 3565), (502, 3592), (533, 3700), (545, 3739), (554, 3757), (556, 3760), (558, 3766), (563, 3784), (624, 3940), (660, 4018),

Gene: Triumph\_8 Start: 2519, Stop: 3862, Start Num: 218

Candidate Starts for Triumph\_8:

(Start: 218 @2519 has 2 MA's), (246, 2612), (250, 2627), (255, 2654), (266, 2675), (307, 2834), (Start: 313 @2858 has 1 MA's), (321, 2891), (335, 2945), (344, 2978), (356, 3008), (357, 3011), (362, 3047), (368, 3071), (396, 3134), (397, 3140), (405, 3170), (409, 3188), (463, 3317), (464, 3320), (468, 3332), (470, 3341), (473, 3350), (502, 3431), (511, 3458), (545, 3578), (556, 3599), (563, 3623), (599, 3683), (624, 3779), (660, 3857),

Gene: Trixie\_15 Start: 9087, Stop: 10874, Start Num: 63

Candidate Starts for Trixie\_15:

(Start: 63 @9087 has 231 MA's), (128, 9195), (138, 9216), (173, 9324), (189, 9375), (203, 9411), (263, 9606), (265, 9609), (299, 9717), (Start: 313 @9807 has 1 MA's), (319, 9831), (357, 9963), (464, 10350), (502, 10449), (511, 10476), (512, 10479), (516, 10497), (545, 10593), (636, 10830), (654, 10857), (656, 10860), (658, 10863), (659, 10866),

Gene: Troje\_4 Start: 1111, Stop: 2790, Start Num: 101

Candidate Starts for Troje\_4:

(Start: 101 @1111 has 80 MA's), (Start: 137 @1162 has 1 MA's), (147, 1183), (174, 1222), (203, 1309), (Start: 218 @1354 has 2 MA's), (224, 1375), (225, 1384), (246, 1456), (259, 1507), (265, 1516), (278, 1567), (305, 1666), (307, 1687), (316, 1720), (326, 1756), (362, 1900), (372, 1936), (383, 1975), (388, 2008), (401, 2056), (412, 2113), (436, 2146), (455, 2179), (466, 2245), (468, 2251), (493, 2317), (496, 2329), (523, 2416), (556, 2512), (587, 2560), (611, 2635), (632, 2716), (656, 2776), (658, 2779),

Gene: Trooper\_12 Start: 7244, Stop: 9031, Start Num: 63

Candidate Starts for Trooper\_12:

(Start: 63 @7244 has 231 MA's), (128, 7352), (138, 7373), (169, 7463), (173, 7481), (189, 7532), (203, 7568), (221, 7622), (225, 7643), (237, 7676), (265, 7766), (276, 7805), (299, 7874), (Start: 313 @7964 has 1 MA's), (319, 7988), (351, 8105), (357, 8120), (464, 8507), (502, 8606), (511, 8633), (512, 8636), (516, 8654), (545, 8750), (636, 8987), (656, 9017),

Gene: Trouble\_11 Start: 7310, Stop: 8998, Start Num: 62

Candidate Starts for Trouble\_11:

(Start: 62 @7310 has 371 MA's), (Start: 179 @7490 has 2 MA's), (213, 7574), (219, 7610), (225, 7637), (265, 7760), (299, 7868), (Start: 313 @7958 has 1 MA's), (319, 7982), (327, 8009), (337, 8057), (359, 8126), (375, 8201), (379, 8213), (392, 8273), (472, 8498), (477, 8507), (481, 8519), (498, 8561), (505, 8582), (515, 8609), (545, 8717), (594, 8807), (621, 8912),

Gene: TroyPia\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for TroyPia\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537),

(656, 8567), (658, 8570),

Gene: TrvxScott\_5 Start: 2201, Stop: 3847, Start Num: 59

Candidate Starts for TrvxScott\_5:

(Start: 59 @2201 has 85 MA's), (120, 2297), (213, 2471), (215, 2495), (Start: 218 @2504 has 2 MA's), (246, 2597), (250, 2612), (255, 2639), (266, 2660), (296, 2747), (307, 2819), (Start: 313 @2843 has 1 MA's), (338, 2942), (347, 2978), (376, 3083), (396, 3119), (405, 3155), (409, 3173), (463, 3302), (464, 3305), (468, 3317), (470, 3326), (473, 3335), (494, 3389), (502, 3416), (511, 3443), (517, 3470), (533, 3524), (545, 3563), (556, 3584), (563, 3608), (576, 3632), (599, 3668), (624, 3764), (660, 3842),

Gene: TuanPN\_6 Start: 2380, Stop: 4026, Start Num: 59

Candidate Starts for TuanPN\_6:

(Start: 59 @2380 has 85 MA's), (Start: 75 @2398 has 21 MA's), (189, 2602), (203, 2638), (255, 2818), (266, 2839), (296, 2926), (307, 2998), (Start: 313 @3022 has 1 MA's), (338, 3121), (342, 3136), (351, 3160), (353, 3166), (405, 3334), (425, 3394), (464, 3484), (470, 3505), (502, 3595), (533, 3703), (545, 3742), (556, 3763), (558, 3769), (563, 3787), (624, 3943), (660, 4021),

Gene: Tubs\_13 Start: 8109, Stop: 9896, Start Num: 63

Candidate Starts for Tubs\_13:

(Start: 63 @8109 has 231 MA's), (Start: 75 @8124 has 21 MA's), (Start: 80 @8130 has 5 MA's), (143, 8241), (173, 8340), (225, 8502), (248, 8574), (265, 8628), (276, 8667), (299, 8739), (Start: 313 @8829 has 1 MA's), (319, 8853), (351, 8970), (357, 8985), (382, 9093), (400, 9168), (408, 9204), (423, 9264), (468, 9384), (475, 9405), (494, 9444), (511, 9498), (512, 9501), (516, 9519), (531, 9573), (539, 9603), (545, 9615), (594, 9705), (600, 9723), (636, 9852), (654, 9879), (656, 9882),

Gene: Tuck\_3 Start: 1594, Stop: 3300, Start Num: 84

Candidate Starts for Tuck\_3:

(Start: 84 @1594 has 42 MA's), (265, 2023), (280, 2071), (305, 2161), (332, 2293), (344, 2335), (418, 2587), (464, 2710), (533, 2929), (545, 2965), (553, 2980), (599, 3115), (624, 3211), (627, 3223),

Gene: Tucker\_15 Start: 7533, Stop: 9287, Start Num: 63

Candidate Starts for Tucker\_15:

(Start: 63 @7533 has 231 MA's), (143, 7665), (173, 7764), (182, 7788), (189, 7815), (203, 7851), (225, 7926), (265, 8049), (269, 8064), (276, 8088), (299, 8157), (303, 8181), (304, 8184), (Start: 313 @8247 has 1 MA's), (319, 8271), (356, 8400), (357, 8403), (383, 8514), (432, 8676), (464, 8763), (468, 8775), (471, 8787), (494, 8835), (498, 8850), (511, 8889), (516, 8910), (539, 8994), (545, 9006), (636, 9243), (654, 9270), (656, 9273),

Gene: Turab\_2 Start: 537, Stop: 2243, Start Num: 84

Candidate Starts for Turab\_2:

(Start: 84 @537 has 42 MA's), (Start: 137 @624 has 1 MA's), (247, 909), (265, 966), (270, 987), (280, 1014), (305, 1104), (344, 1278), (418, 1530), (464, 1653), (523, 1833), (545, 1908), (553, 1923), (599, 2058), (609, 2094), (620, 2142), (624, 2154), (627, 2166),

Gene: Turbido\_14 Start: 7910, Stop: 9697, Start Num: 63

Candidate Starts for Turbido\_14:

(Start: 63 @7910 has 231 MA's), (128, 8018), (138, 8039), (160, 8105), (161, 8111), (173, 8147), (182, 8171), (203, 8234), (263, 8429), (265, 8432), (299, 8540), (Start: 313 @8630 has 1 MA's), (319, 8654), (337, 8729), (351, 8771), (357, 8786), (433, 9086), (502, 9272), (511, 9299), (516, 9320), (545, 9416), (636, 9653), (656, 9683),

Gene: Turj99\_10 Start: 6754, Stop: 8442, Start Num: 62

Candidate Starts for Turj99\_10:

(Start: 62 @6754 has 371 MA's), (Start: 179 @6934 has 2 MA's), (213, 7018), (219, 7054), (265, 7204), (299, 7312), (Start: 313 @7402 has 1 MA's), (319, 7426), (337, 7501), (359, 7570), (379, 7657), (392, 7717), (477, 7951), (481, 7963), (498, 8005), (505, 8026), (515, 8053), (545, 8161), (594, 8251), (621, 8356),

Gene: Turuncu\_28 Start: 13351, Stop: 15027, Start Num: 99

Candidate Starts for Turuncu\_28:

(Start: 99 @13351 has 202 MA's), (184, 13501), (200, 13558), (207, 13585), (212, 13597), (216, 13627), (317, 14011), (323, 14038), (367, 14206), (371, 14218), (380, 14251), (405, 14329), (448, 14410), (464, 14479), (478, 14515), (488, 14545), (506, 14626), (511, 14641), (527, 14701), (547, 14749), (621, 14935), (629, 14965),

Gene: Tutumahutu\_2 Start: 533, Stop: 2290, Start Num: 84

Candidate Starts for Tutumahutu\_2:

(10, 242), (13, 251), (Start: 84 @533 has 42 MA's), (247, 905), (265, 962), (280, 1010), (305, 1100), (316, 1154), (344, 1274), (367, 1364), (418, 1526), (464, 1700), (545, 1955), (553, 1970), (576, 2024), (599, 2105), (620, 2189), (627, 2213),

Gene: Tweety\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Tweety\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Tweety19\_3 Start: 1419, Stop: 3110, Start Num: 84

Candidate Starts for Tweety19\_3:

(Start: 84 @1419 has 42 MA's), (Start: 105 @1449 has 2 MA's), (126, 1485), (185, 1596), (243, 1779), (247, 1791), (265, 1848), (293, 1932), (305, 1989), (454, 2478), (533, 2745), (545, 2781), (553, 2796), (599, 2925), (606, 2946), (627, 3033),

Gene: Twigg\_9 Start: 6157, Stop: 7908, Start Num: 42

Candidate Starts for Twigg\_9:

(Start: 37 @6130 has 19 MA's), (Start: 42 @6157 has 30 MA's), (73, 6226), (140, 6340), (143, 6346), (203, 6478), (225, 6553), (226, 6556), (238, 6589), (248, 6622), (284, 6730), (291, 6754), (299, 6787), (Start: 313 @6862 has 1 MA's), (324, 6907), (342, 6985), (344, 6991), (359, 7036), (395, 7189), (401, 7210), (464, 7384), (471, 7408), (472, 7411), (498, 7471), (502, 7483), (511, 7510), (516, 7531), (539, 7615), (545, 7627), (636, 7864), (658, 7897), (660, 7903),

Gene: Twister\_11 Start: 6715, Stop: 8406, Start Num: 62

Candidate Starts for Twister\_11:

(Start: 62 @6715 has 371 MA's), (Start: 81 @6739 has 1 MA's), (Start: 148 @6862 has 2 MA's), (203, 6982), (213, 6994), (222, 7039), (238, 7093), (246, 7120), (250, 7135), (265, 7180), (276, 7219), (296, 7267), (299, 7288), (303, 7312), (Start: 313 @7363 has 1 MA's), (344, 7486), (379, 7618), (397, 7693), (408, 7738), (438, 7804), (464, 7879), (471, 7903), (498, 7969), (511, 8008), (512, 8011), (516, 8029), (545, 8125), (576, 8194), (636, 8362), (656, 8392), (658, 8395),

Gene: TwoPeat\_12 Start: 7272, Stop: 8960, Start Num: 62

Candidate Starts for TwoPeat\_12:

(Start: 62 @7272 has 371 MA's), (213, 7536), (215, 7560), (265, 7722), (274, 7755), (299, 7830), (Start: 313 @7920 has 1 MA's), (319, 7944), (327, 7971), (337, 8019), (359, 8088), (379, 8175), (382, 8184), (392, 8235), (477, 8469), (481, 8481), (498, 8523), (505, 8544), (515, 8571), (545, 8679), (594, 8769), (621, 8874),

Gene: TygerBlood\_11 Start: 6886, Stop: 8583, Start Num: 62

Candidate Starts for TygerBlood\_11:

(Start: 62 @6886 has 371 MA's), (Start: 81 @6910 has 1 MA's), (Start: 148 @7033 has 2 MA's), (196, 7123), (213, 7156), (238, 7255), (263, 7339), (265, 7342), (276, 7381), (299, 7450), (303, 7474), (Start: 313 @7540 has 1 MA's), (335, 7630), (379, 7795), (401, 7882), (408, 7915), (438, 7981), (463, 8053), (464, 8056), (471, 8080), (494, 8131), (498, 8146), (511, 8185), (516, 8206), (545, 8302), (636, 8539), (656, 8569), (658, 8572),

Gene: Typhonomachy\_4 Start: 1113, Stop: 2792, Start Num: 101

Candidate Starts for Typhonomachy\_4:

(Start: 101 @1113 has 80 MA's), (Start: 137 @1164 has 1 MA's), (147, 1185), (Start: 148 @1188 has 2 MA's), (177, 1230), (203, 1311), (224, 1377), (225, 1386), (246, 1458), (250, 1473), (259, 1509), (265, 1518), (278, 1569), (305, 1668), (316, 1722), (326, 1758), (362, 1902), (372, 1938), (388, 2010), (401, 2058), (408, 2091), (412, 2115), (436, 2148), (455, 2181), (463, 2238), (466, 2247), (496, 2331), (505, 2358), (523, 2418), (556, 2514), (596, 2586), (599, 2598), (632, 2718), (656, 2778), (658, 2781),

Gene: U2\_11 Start: 6935, Stop: 8623, Start Num: 62

Candidate Starts for U2\_11:

(Start: 62 @6935 has 371 MA's), (213, 7199), (215, 7223), (253, 7358), (265, 7385), (274, 7418), (299, 7493), (Start: 313 @7583 has 1 MA's), (319, 7607), (327, 7634), (337, 7682), (359, 7751), (379, 7838), (391, 7895), (392, 7898), (472, 8123), (477, 8132), (481, 8144), (498, 8186), (505, 8207), (515, 8234), (545, 8342), (594, 8432), (621, 8537),

Gene: Ugenie5\_10 Start: 8142, Stop: 9929, Start Num: 63

Candidate Starts for Ugenie5\_10:

(Start: 63 @8142 has 231 MA's), (Start: 75 @8157 has 21 MA's), (Start: 80 @8163 has 5 MA's), (143, 8274), (173, 8373), (225, 8535), (248, 8607), (265, 8661), (276, 8700), (299, 8772), (Start: 313 @8862 has 1 MA's), (319, 8886), (351, 9003), (357, 9018), (382, 9126), (400, 9201), (408, 9237), (423, 9297), (468, 9417), (475, 9438), (494, 9477), (511, 9531), (512, 9534), (516, 9552), (531, 9606), (539, 9636), (545, 9648), (594, 9738), (600, 9756), (636, 9885), (654, 9912), (656, 9915),

Gene: UhSalsa\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for UhSalsa\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (265, 3615), (269, 3630), (291, 3690), (Start: 313 @3798 has 1 MA's), (327, 3855), (377, 4053), (383, 4071), (395, 4125), (440, 4236), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Ulysses\_10 Start: 6603, Stop: 8300, Start Num: 62

Candidate Starts for Ulysses\_10:

(Start: 62 @6603 has 371 MA's), (Start: 81 @6627 has 1 MA's), (Start: 148 @6750 has 2 MA's), (196, 6840), (213, 6873), (238, 6972), (263, 7056), (265, 7059), (276, 7098), (299, 7167), (303, 7191), (Start: 313 @7257 has 1 MA's), (335, 7347), (379, 7512), (401, 7599), (408, 7632), (438, 7698), (463, 7770), (464, 7773), (471, 7797), (494, 7848), (498, 7863), (511, 7902), (516, 7923), (545, 8019), (636, 8256), (656, 8286), (658, 8289),

Gene: UnionJack\_9 Start: 5697, Stop: 7475, Start Num: 37

Candidate Starts for UnionJack\_9:

(Start: 37 @5697 has 19 MA's), (Start: 42 @5724 has 30 MA's), (73, 5793), (97, 5832), (140, 5907), (143, 5913), (203, 6045), (225, 6120), (226, 6123), (284, 6297), (291, 6321), (Start: 313 @6429 has 1 MA's), (324, 6474), (342, 6552), (344, 6558), (385, 6723), (395, 6756), (401, 6777), (464, 6951), (498, 7038), (502, 7050), (511, 7077), (516, 7098), (539, 7182), (545, 7194), (635, 7428), (636, 7431), (658, 7464), (660, 7470),

Gene: Unstoppable\_6 Start: 2420, Stop: 4048, Start Num: 75

Candidate Starts for Unstoppable\_6:

(Start: 59 @2402 has 85 MA's), (Start: 75 @2420 has 21 MA's), (189, 2624), (Start: 218 @2705 has 2 MA's), (255, 2840), (266, 2861), (296, 2948), (307, 3020), (Start: 313 @3044 has 1 MA's), (338, 3143), (357, 3197), (389, 3296), (405, 3356), (468, 3518), (470, 3527), (502, 3617), (511, 3644), (532, 3722), (533, 3725), (545, 3764), (556, 3785), (558, 3791), (563, 3809), (609, 3905), (624, 3965),

Gene: Updawg\_14 Start: 7926, Stop: 9713, Start Num: 63

Candidate Starts for Updawg\_14:

(16, 7740), (35, 7842), (Start: 63 @7926 has 231 MA's), (128, 8034), (138, 8055), (169, 8145), (173, 8163), (248, 8394), (263, 8445), (265, 8448), (299, 8556), (Start: 313 @8646 has 1 MA's), (319, 8670), (357, 8802), (464, 9189), (511, 9315), (516, 9336), (539, 9420), (545, 9432), (636, 9669), (654, 9696), (656, 9699), (658, 9702), (659, 9705),

Gene: Urza\_6 Start: 2578, Stop: 4239, Start Num: 59

Candidate Starts for Urza\_6:

(Start: 59 @2578 has 85 MA's), (172, 2761), (185, 2797), (239, 2968), (255, 3031), (276, 3088), (296, 3139), (307, 3211), (Start: 313 @3235 has 1 MA's), (321, 3268), (330, 3304), (338, 3334), (344, 3355), (368, 3448), (389, 3487), (396, 3511), (405, 3547), (464, 3697), (470, 3718), (479, 3739), (512, 3838), (545, 3955), (563, 4000),

Gene: UtzChips\_2 Start: 634, Stop: 2352, Start Num: 83

Candidate Starts for UtzChips\_2:

(Start: 83 @634 has 13 MA's), (243, 1006), (255, 1057), (265, 1075), (305, 1225), (453, 1720), (545, 2026), (553, 2041), (609, 2206), (627, 2278),

Gene: VA6\_12 Start: 7428, Stop: 9218, Start Num: 63

Candidate Starts for VA6\_12:

(18, 7254), (Start: 63 @7428 has 231 MA's), (128, 7536), (138, 7557), (173, 7665), (265, 7953), (299, 8061), (Start: 313 @8151 has 1 MA's), (319, 8175), (351, 8292), (357, 8307), (433, 8607), (502, 8793), (511, 8820), (516, 8841), (545, 8937), (636, 9174), (654, 9201), (656, 9204),

Gene: VC3\_15 Start: 7374, Stop: 9164, Start Num: 63

Candidate Starts for VC3\_15:

(Start: 37 @7296 has 19 MA's), (50, 7347), (Start: 63 @7374 has 231 MA's), (128, 7482), (138, 7503), (160, 7569), (173, 7611), (182, 7635), (225, 7773), (263, 7893), (265, 7896), (299, 8007), (Start: 313 @8097 has 1 MA's), (319, 8121), (335, 8187), (345, 8223), (356, 8250), (357, 8253), (433, 8553), (464, 8640), (475, 8673), (502, 8739), (511, 8766), (516, 8787), (539, 8871), (545, 8883), (595, 8976), (600, 8991), (636, 9120), (654, 9147), (656, 9150),

Gene: VRedHorse\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for VRedHorse\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (358, 1346), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476,

1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (569, 1964), (576, 1979), (593, 2006), (602, 2030), (605, 2039), (609, 2060), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: VResidence\_2 Start: 601, Stop: 2307, Start Num: 87

Candidate Starts for VResidence\_2:

(Start: 87 @601 has 7 MA's), (Start: 90 @610 has 17 MA's), (Start: 105 @631 has 2 MA's), (Start: 137 @688 has 1 MA's), (265, 1030), (270, 1051), (280, 1078), (305, 1168), (308, 1192), (326, 1267), (344, 1342), (409, 1555), (418, 1594), (464, 1717), (533, 1936), (545, 1972), (553, 1987), (627, 2230),

Gene: VWB\_2 Start: 559, Stop: 2169, Start Num: 143

Candidate Starts for VWB\_2:

(Start: 99 @493 has 202 MA's), (143, 559), (192, 661), (201, 676), (225, 766), (244, 823), (246, 838), (250, 853), (265, 898), (317, 1093), (362, 1270), (383, 1345), (416, 1498), (444, 1525), (447, 1528), (455, 1549), (461, 1588), (479, 1651), (494, 1711), (498, 1726), (512, 1768), (515, 1774), (533, 1846), (535, 1852), (544, 1882), (554, 1903), (597, 1981), (614, 2035), (647, 2149),

Gene: Vanisoa\_11 Start: 6197, Stop: 7987, Start Num: 63

Candidate Starts for Vanisoa\_11:

(Start: 63 @6197 has 231 MA's), (Start: 75 @6212 has 21 MA's), (143, 6329), (173, 6428), (225, 6590), (234, 6623), (248, 6662), (265, 6716), (276, 6755), (299, 6827), (304, 6854), (Start: 313 @6917 has 1 MA's), (319, 6941), (351, 7058), (357, 7073), (382, 7181), (400, 7256), (424, 7355), (444, 7388), (468, 7472), (475, 7493), (511, 7589), (512, 7592), (516, 7610), (531, 7664), (539, 7694), (545, 7706), (595, 7799), (600, 7814), (615, 7865), (636, 7943), (654, 7970), (656, 7973),

Gene: Vanseggelen\_9 Start: 2121, Stop: 3767, Start Num: 61

Candidate Starts for Vanseggelen\_9:

(Start: 57 @2112 has 2 MA's), (Start: 61 @2121 has 11 MA's), (Start: 64 @2124 has 1 MA's), (Start: 75 @2139 has 21 MA's), (107, 2193), (189, 2343), (201, 2364), (239, 2496), (246, 2517), (250, 2532), (255, 2559), (259, 2568), (266, 2580), (296, 2667), (304, 2715), (305, 2718), (307, 2739), (Start: 313 @2763 has 1 MA's), (338, 2862), (389, 3015), (395, 3036), (405, 3075), (425, 3135), (464, 3225), (466, 3231), (470, 3246), (475, 3258), (494, 3309), (502, 3336), (511, 3363), (531, 3438), (545, 3483), (558, 3510), (563, 3528), (624, 3684),

Gene: VasuNzinga\_35 Start: 10327, Stop: 12069, Start Num: 101

Candidate Starts for VasuNzinga\_35:

(Start: 101 @10327 has 80 MA's), (175, 10444), (189, 10489), (206, 10555), (208, 10570), (215, 10603), (216, 10606), (221, 10621), (226, 10645), (227, 10648), (238, 10678), (244, 10699), (246, 10717), (249, 10726), (256, 10762), (265, 10777), (278, 10822), (296, 10864), (301, 10903), (305, 10915), (307, 10936), (320, 10987), (327, 11008), (388, 11230), (412, 11335), (414, 11344), (447, 11377), (455, 11398), (456, 11401), (460, 11428), (464, 11458), (468, 11470), (472, 11485), (477, 11494), (479, 11500), (493, 11542), (495, 11551), (500, 11566), (505, 11581), (523, 11641), (531, 11680), (540, 11713), (556, 11743), (557, 11746), (583, 11830), (599, 11884), (604, 11899), (612, 11926), (624, 11980), (654, 12052), (656, 12055),

Gene: Verabelle\_7 Start: 2488, Stop: 4134, Start Num: 61

Candidate Starts for Verabelle\_7:

(Start: 61 @2488 has 11 MA's), (Start: 75 @2506 has 21 MA's), (189, 2710), (Start: 218 @2791 has 2 MA's), (219, 2794), (255, 2926), (266, 2947), (296, 3034), (Start: 313 @3130 has 1 MA's), (335, 3217), (338, 3229), (357, 3283), (405, 3442), (409, 3460), (464, 3592), (470, 3613), (498, 3691), (502, 3703), (511, 3730), (533, 3811), (545, 3850), (558, 3877), (563, 3895), (629, 4072),

Gene: Veracruz\_11 Start: 7044, Stop: 8741, Start Num: 62

Candidate Starts for Veracruz\_11:

(Start: 62 @7044 has 371 MA's), (Start: 81 @7068 has 1 MA's), (213, 7314), (257, 7488), (265, 7500), (276, 7539), (283, 7551), (299, 7608), (303, 7632), (Start: 313 @7698 has 1 MA's), (316, 7707), (335, 7788), (344, 7821), (379, 7953), (383, 7965), (395, 8019), (401, 8040), (408, 8073), (432, 8127), (464, 8214), (471, 8238), (472, 8241), (475, 8247), (479, 8256), (498, 8304), (511, 8343), (512, 8346), (516, 8364), (545, 8460), (569, 8514), (625, 8667), (636, 8697), (656, 8727), (658, 8730),

Gene: Verse\_6 Start: 2569, Stop: 4215, Start Num: 61

Candidate Starts for Verse\_6:

(Start: 57 @2560 has 2 MA's), (Start: 61 @2569 has 11 MA's), (Start: 64 @2572 has 1 MA's), (Start: 75 @2587 has 21 MA's), (107, 2641), (120, 2665), (189, 2791), (Start: 218 @2872 has 2 MA's), (246, 2965), (250, 2980), (255, 3007), (259, 3016), (266, 3028), (296, 3115), (304, 3163), (Start: 313 @3211 has 1 MA's), (338, 3310), (351, 3349), (389, 3463), (395, 3484), (405, 3523), (464, 3673), (466, 3679), (470, 3694), (475, 3706), (494, 3757), (511, 3811), (532, 3889), (533, 3892), (545, 3931), (558, 3958), (563, 3976), (624, 4132),

Gene: Veteran\_2 Start: 588, Stop: 2225, Start Num: 99

Candidate Starts for Veteran\_2:

(Start: 99 @588 has 202 MA's), (109, 603), (Start: 115 @612 has 3 MA's), (118, 618), (Start: 134 @645 has 1 MA's), (Start: 144 @669 has 2 MA's), (146, 672), (185, 735), (189, 753), (200, 774), (222, 861), (223, 867), (233, 921), (241, 933), (245, 945), (248, 954), (249, 957), (252, 978), (258, 999), (267, 1014), (282, 1071), (296, 1110), (306, 1179), (309, 1185), (317, 1215), (318, 1218), (319, 1227), (323, 1242), (327, 1260), (338, 1311), (367, 1413), (417, 1584), (435, 1596), (450, 1614), (464, 1680), (474, 1710), (476, 1713), (478, 1716), (498, 1773), (503, 1788), (505, 1794), (506, 1797), (511, 1812), (514, 1821), (532, 1890), (543, 1920), (560, 1962), (569, 1980), (576, 1995), (593, 2022), (605, 2055), (611, 2082), (612, 2085), (617, 2106), (621, 2130), (624, 2139), (625, 2142), (650, 2199),

Gene: VieEnRose\_6 Start: 2652, Stop: 4313, Start Num: 59

Candidate Starts for VieEnRose\_6:

(Start: 59 @2652 has 85 MA's), (172, 2835), (185, 2871), (239, 3042), (255, 3105), (276, 3162), (296, 3213), (307, 3285), (Start: 313 @3309 has 1 MA's), (321, 3342), (330, 3378), (338, 3408), (344, 3429), (368, 3522), (389, 3561), (396, 3585), (405, 3621), (425, 3681), (464, 3771), (470, 3792), (479, 3813), (512, 3912), (545, 4029), (563, 4074),

Gene: Vine\_5 Start: 1901, Stop: 3577, Start Num: 101

Candidate Starts for Vine\_5:

(Start: 101 @1901 has 80 MA's), (Start: 137 @1952 has 1 MA's), (147, 1973), (177, 2018), (189, 2060), (203, 2096), (224, 2162), (250, 2258), (259, 2294), (265, 2303), (266, 2306), (278, 2354), (283, 2366), (305, 2453), (317, 2510), (347, 2633), (362, 2687), (406, 2867), (412, 2900), (455, 2966), (466, 3032), (468, 3038), (498, 3122), (523, 3203), (531, 3236), (558, 3305), (599, 3383), (625, 3482), (632, 3503), (635, 3509), (656, 3563), (658, 3566),

Gene: Violac\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Violac\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 134 @628 has 1 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (185, 718), (200, 757), (222, 844), (233, 904), (241, 916), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (358, 1345), (367, 1396), (417, 1567), (434, 1576), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (569, 1963), (576, 1978), (593, 2005), (605, 2038), (611, 2065), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Vivum\_2 Start: 629, Stop: 2209, Start Num: 134

Candidate Starts for Vivum\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (241, 917), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (576, 1979), (593, 2006), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Vix\_13 Start: 7039, Stop: 8739, Start Num: 65

Candidate Starts for Vix\_13:

(Start: 65 @7039 has 85 MA's), (94, 7087), (175, 7222), (238, 7414), (265, 7501), (Start: 313 @7699 has 1 MA's), (335, 7789), (356, 7852), (392, 8014), (464, 8212), (471, 8236), (472, 8239), (498, 8302), (502, 8314), (505, 8323), (516, 8362), (545, 8458), (569, 8512), (594, 8548), (636, 8695), (656, 8725), (658, 8728),

Gene: VohminGhazi\_15 Start: 7533, Stop: 9287, Start Num: 63

Candidate Starts for VohminGhazi\_15:

(Start: 63 @7533 has 231 MA's), (173, 7764), (189, 7815), (203, 7851), (225, 7926), (265, 8049), (276, 8088), (299, 8157), (303, 8181), (304, 8184), (Start: 313 @8247 has 1 MA's), (319, 8271), (344, 8370), (345, 8373), (356, 8400), (357, 8403), (438, 8688), (468, 8775), (471, 8787), (498, 8850), (511, 8889), (516, 8910), (539, 8994), (545, 9006), (636, 9243), (654, 9270), (656, 9273),

Gene: VroomVroom\_2 Start: 553, Stop: 2283, Start Num: 59

Candidate Starts for VroomVroom\_2:

(Start: 59 @553 has 85 MA's), (Start: 137 @667 has 1 MA's), (203, 811), (240, 931), (243, 940), (255, 991), (265, 1009), (280, 1057), (305, 1150), (367, 1414), (472, 1726), (523, 1879), (545, 1954), (553, 1969), (581, 2047), (599, 2098), (627, 2206), (656, 2269),

Gene: Wachhund\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Wachhund\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (358, 1346), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (450, 1598), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (569, 1964), (576, 1979), (593, 2006), (602, 2030), (605, 2039), (609, 2060), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Waits\_14 Start: 6653, Stop: 8350, Start Num: 63

Candidate Starts for Waits\_14:

(Start: 63 @6653 has 231 MA's), (78, 6671), (175, 6833), (248, 7058), (265, 7112), (299, 7220), (304, 7247), (Start: 313 @7310 has 1 MA's), (319, 7334), (471, 7850), (498, 7913), (512, 7955), (545, 8069), (599, 8174), (636, 8306), (654, 8333), (656, 8336), (658, 8339),

Gene: WalterMcMickey\_11 Start: 6715, Stop: 8406, Start Num: 62

Candidate Starts for WalterMcMickey\_11:

(Start: 62 @6715 has 371 MA's), (Start: 81 @6739 has 1 MA's), (Start: 148 @6862 has 2 MA's), (203, 6982), (213, 6994), (222, 7039), (238, 7093), (246, 7120), (250, 7135), (265, 7180), (276, 7219), (296, 7267), (299, 7288), (303, 7312), (Start: 313 @7363 has 1 MA's), (344, 7486), (379, 7618), (397, 7693), (408, 7738), (438, 7804), (464, 7879), (471, 7903), (498, 7969), (511, 8008), (512, 8011), (516, 8029), (545, 8125), (576, 8194), (636, 8362), (656, 8392), (658, 8395),

Gene: Wander\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for Wander\_11:

(Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (238, 7253), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Warda\_2 Start: 533, Stop: 2239, Start Num: 84

Candidate Starts for Warda\_2:

(Start: 84 @533 has 42 MA's), (247, 905), (265, 962), (280, 1010), (305, 1100), (316, 1154), (344, 1274), (367, 1364), (418, 1526), (464, 1649), (545, 1904), (553, 1919), (599, 2054), (620, 2138), (627, 2162),

Gene: Warrior24\_14 Start: 6657, Stop: 8354, Start Num: 63

Candidate Starts for Warrior24\_14:

(Start: 63 @6657 has 231 MA's), (78, 6675), (175, 6837), (225, 6993), (248, 7062), (265, 7116), (299, 7224), (304, 7251), (Start: 313 @7314 has 1 MA's), (319, 7338), (471, 7854), (498, 7917), (512, 7959), (545, 8073), (599, 8178), (636, 8310), (654, 8337), (656, 8340), (658, 8343),

Gene: Watermelon\_13 Start: 7861, Stop: 9549, Start Num: 62

Candidate Starts for Watermelon\_13:

(Start: 62 @7861 has 371 MA's), (213, 8125), (215, 8149), (265, 8311), (274, 8344), (299, 8419), (Start: 313 @8509 has 1 MA's), (319, 8533), (327, 8560), (337, 8608), (359, 8677), (379, 8764), (392, 8824), (477, 9058), (481, 9070), (498, 9112), (505, 9133), (515, 9160), (545, 9268), (594, 9358), (621, 9463),

Gene: Watson\_13 Start: 6949, Stop: 8649, Start Num: 65

Candidate Starts for Watson\_13:

(Start: 65 @6949 has 85 MA's), (94, 6997), (175, 7132), (238, 7324), (265, 7411), (Start: 313 @7609 has 1 MA's), (335, 7699), (356, 7762), (392, 7924), (464, 8122), (471, 8146), (472, 8149), (498, 8212), (505, 8233), (516, 8272), (545, 8368), (569, 8422), (594, 8458), (636, 8605), (656, 8635), (658, 8638),

Gene: Wee\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Wee\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (248, 953), (249, 956), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: WeiHuaDA\_18 Start: 9697, Stop: 11484, Start Num: 63

Candidate Starts for WeiHuaDA\_18:

(Start: 63 @9697 has 231 MA's), (128, 9805), (138, 9826), (173, 9934), (189, 9985), (203, 10021), (263, 10216), (265, 10219), (299, 10327), (Start: 313 @10417 has 1 MA's), (319, 10441), (357, 10573), (464, 10960), (502, 11059), (511, 11086), (512, 11089), (516, 11107), (545, 11203), (636, 11440), (654, 11467), (656, 11470), (658, 11473), (659, 11476),

Gene: Werner\_6 Start: 2377, Stop: 4023, Start Num: 59

Candidate Starts for Werner\_6:

(Start: 59 @2377 has 85 MA's), (Start: 75 @2395 has 21 MA's), (Start: 150 @2527 has 2 MA's), (189, 2599), (203, 2635), (255, 2815), (266, 2836), (282, 2881), (296, 2923), (307, 2995), (Start: 313 @3019 has 1 MA's), (338, 3118), (342, 3133), (351, 3157), (353, 3163), (405, 3331), (464, 3481), (470, 3502), (494, 3565), (502, 3592), (533, 3700), (545, 3739), (556, 3760), (558, 3766), (563, 3784), (609, 3880), (624, 3940), (660, 4018),

Gene: Whabigail7\_14 Start: 7898, Stop: 9685, Start Num: 63

Candidate Starts for Whabigail7\_14:

(Start: 63 @7898 has 231 MA's), (128, 8006), (138, 8027), (160, 8093), (161, 8099), (173, 8135), (182, 8159), (203, 8222), (263, 8417), (265, 8420), (299, 8528), (Start: 313 @8618 has 1 MA's), (319, 8642), (337, 8717), (351, 8759), (357, 8774), (433, 9074), (502, 9260), (511, 9287), (516, 9308), (545, 9404), (636, 9641), (656, 9671),

Gene: Whatever\_6 Start: 2377, Stop: 4023, Start Num: 59

Candidate Starts for Whatever\_6:

(Start: 59 @2377 has 85 MA's), (Start: 75 @2395 has 21 MA's), (Start: 150 @2527 has 2 MA's), (189, 2599), (203, 2635), (255, 2815), (266, 2836), (282, 2881), (296, 2923), (307, 2995), (Start: 313 @3019 has 1 MA's), (338, 3118), (342, 3133), (351, 3157), (353, 3163), (405, 3331), (464, 3481), (470, 3502), (494, 3565), (502, 3592), (533, 3700), (545, 3739), (556, 3760), (558, 3766), (563, 3784), (609, 3880), (624, 3940), (660, 4018),

Gene: Whatsapiecost\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Whatsapiecost\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Wheeler\_11 Start: 7027, Stop: 8715, Start Num: 62

Candidate Starts for Wheeler\_11:

(Start: 62 @7027 has 371 MA's), (213, 7291), (215, 7315), (265, 7477), (274, 7510), (299, 7585), (Start: 313 @7675 has 1 MA's), (319, 7699), (327, 7726), (337, 7774), (379, 7930), (392, 7990), (477, 8224), (481, 8236), (498, 8278), (505, 8299), (515, 8326), (545, 8434), (594, 8524), (621, 8629),

Gene: Wheezy\_24 Start: 12135, Stop: 13862, Start Num: 96

Candidate Starts for Wheezy\_24:

(19, 11901), (43, 12030), (Start: 96 @12135 has 12 MA's), (184, 12285), (197, 12336), (200, 12342), (212, 12381), (216, 12411), (223, 12435), (225, 12453), (229, 12480), (236, 12543), (241, 12561), (317, 12846), (323, 12873), (343, 12957), (367, 13041), (371, 13053), (380, 13086), (405, 13164), (444, 13242), (464, 13314), (476, 13347), (492, 13410), (498, 13437), (506, 13461), (514, 13485), (547, 13584), (567, 13632), (621, 13770), (629, 13800), (659, 13854),

Gene: Whitspit\_12 Start: 7611, Stop: 9299, Start Num: 62

Candidate Starts for Whitspit\_12:

(Start: 62 @7611 has 371 MA's), (Start: 179 @7791 has 2 MA's), (213, 7875), (219, 7911), (225, 7938), (265, 8061), (299, 8169), (Start: 313 @8259 has 1 MA's), (319, 8283), (362, 8451), (391, 8571), (392, 8574), (464, 8772), (472, 8799), (501, 8871), (505, 8883), (512, 8904), (527, 8961), (545, 9018), (594, 9108), (595, 9111), (624, 9222), (625, 9225), (636, 9255), (656, 9285), (658, 9288),

Gene: Whitty\_3 Start: 724, Stop: 2607, Start Num: 54

Candidate Starts for Whitty\_3:

(13, 475), (Start: 54 @724 has 7 MA's), (108, 805), (114, 814), (156, 910), (158, 922), (203, 1054), (249, 1201), (250, 1207), (255, 1234), (265, 1252), (286, 1315), (317, 1450), (362, 1651), (386, 1708), (466, 1927), (485, 1978), (490, 2002), (501, 2053), (534, 2182), (540, 2221), (545, 2230), (568, 2281), (580, 2320), (595, 2407), (599, 2419), (623, 2512), (627, 2527), (628, 2530),

Gene: WhoseManz\_26 Start: 10017, Stop: 11744, Start Num: 99

Candidate Starts for WhoseManz\_26:

(Start: 99 @10017 has 202 MA's), (Start: 134 @10080 has 1 MA's), (184, 10167), (197, 10218), (216, 10293), (219, 10302), (236, 10425), (241, 10443), (317, 10725), (323, 10752), (367, 10920), (371, 10932), (405, 11043), (476, 11226), (506, 11340), (511, 11355), (518, 11388), (547, 11463), (611, 11607), (621, 11649), (629, 11679), (651, 11721),

Gene: Whouxphf\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Whouxphf\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (367, 1397), (417, 1568), (435, 1580), (450, 1598), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (560, 1946), (569, 1964), (576, 1979), (593, 2006), (602, 2030), (605, 2039), (609, 2060), (611, 2066), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: WideWale\_14 Start: 7926, Stop: 9713, Start Num: 63

Candidate Starts for WideWale\_14:

(16, 7740), (35, 7842), (Start: 63 @7926 has 231 MA's), (128, 8034), (138, 8055), (169, 8145), (173, 8163), (248, 8394), (263, 8445), (265, 8448), (299, 8556), (Start: 313 @8646 has 1 MA's), (319, 8670), (357, 8802), (464, 9189), (511, 9315), (516, 9336), (539, 9420), (545, 9432), (636, 9669), (654, 9696), (656, 9699), (658, 9702), (659, 9705),

Gene: Wiks\_15 Start: 7514, Stop: 9268, Start Num: 63

Candidate Starts for Wiks\_15:

(Start: 63 @7514 has 231 MA's), (143, 7646), (173, 7745), (182, 7769), (189, 7796), (203, 7832), (225, 7907), (265, 8030), (269, 8045), (276, 8069), (299, 8138), (303, 8162), (304, 8165), (Start: 313 @8228 has 1 MA's), (319, 8252), (356, 8381), (357, 8384), (383, 8495), (432, 8657), (464, 8744), (468, 8756), (471, 8768), (494, 8816), (498, 8831), (511, 8870), (516, 8891), (539, 8975), (545, 8987), (636, 9224), (654, 9251), (656, 9254),

Gene: Wilbur\_11 Start: 6883, Stop: 8580, Start Num: 62

Candidate Starts for Wilbur\_11:

(Start: 62 @6883 has 371 MA's), (Start: 81 @6907 has 1 MA's), (Start: 148 @7030 has 2 MA's), (196, 7120), (213, 7153), (238, 7252), (263, 7336), (265, 7339), (276, 7378), (299, 7447), (303, 7471), (Start: 313 @7537 has 1 MA's), (335, 7627), (379, 7792), (401, 7879), (408, 7912), (438, 7978), (463, 8050), (464, 8053), (471, 8077), (494, 8128), (498, 8143), (511, 8182), (516, 8203), (545, 8299), (636, 8536),

(656, 8566), (658, 8569),

Gene: Wildwest\_3 Start: 1478, Stop: 3184, Start Num: 84

Candidate Starts for Wildwest\_3:

(10, 1187), (11, 1190), (Start: 84 @1478 has 42 MA's), (Start: 99 @1499 has 202 MA's), (126, 1544), (265, 1907), (280, 1955), (305, 2045), (344, 2219), (409, 2432), (418, 2471), (464, 2594), (494, 2678), (531, 2807), (533, 2813), (545, 2849), (553, 2864), (599, 2999), (624, 3095), (627, 3107),

Gene: Wile\_11 Start: 6894, Stop: 8591, Start Num: 62

Candidate Starts for Wile\_11:

(Start: 62 @6894 has 371 MA's), (Start: 81 @6918 has 1 MA's), (213, 7164), (239, 7269), (263, 7347), (265, 7350), (276, 7389), (299, 7458), (303, 7482), (Start: 313 @7548 has 1 MA's), (335, 7638), (379, 7803), (389, 7848), (401, 7890), (408, 7923), (438, 7989), (463, 8061), (464, 8064), (471, 8088), (498, 8154), (511, 8193), (516, 8214), (545, 8310), (635, 8544), (636, 8547), (656, 8577), (658, 8580),

Gene: Wilkins\_11 Start: 6738, Stop: 8426, Start Num: 62

Candidate Starts for Wilkins\_11:

(Start: 62 @6738 has 371 MA's), (213, 7002), (215, 7026), (265, 7188), (274, 7221), (299, 7296), (Start: 313 @7386 has 1 MA's), (319, 7410), (327, 7437), (337, 7485), (379, 7641), (382, 7650), (391, 7698), (392, 7701), (472, 7926), (477, 7935), (481, 7947), (498, 7989), (505, 8010), (515, 8037), (545, 8145), (594, 8235), (621, 8340),

Gene: WillSterrel\_2 Start: 575, Stop: 2212, Start Num: 99

Candidate Starts for WillSterrel\_2:

(Start: 99 @575 has 202 MA's), (Start: 105 @584 has 2 MA's), (Start: 115 @599 has 3 MA's), (Start: 127 @620 has 1 MA's), (Start: 134 @632 has 1 MA's), (Start: 144 @656 has 2 MA's), (146, 659), (153, 677), (185, 722), (200, 761), (222, 848), (233, 908), (241, 920), (245, 932), (248, 941), (249, 944), (252, 965), (258, 986), (267, 1001), (282, 1058), (296, 1097), (306, 1166), (309, 1172), (317, 1202), (318, 1205), (319, 1214), (323, 1229), (327, 1247), (338, 1298), (364, 1391), (367, 1400), (417, 1571), (435, 1583), (450, 1601), (464, 1667), (474, 1697), (476, 1700), (478, 1703), (498, 1760), (503, 1775), (505, 1781), (506, 1784), (511, 1799), (514, 1808), (532, 1877), (543, 1907), (547, 1916), (560, 1949), (576, 1982), (593, 2009), (605, 2042), (611, 2069), (612, 2072), (617, 2093), (621, 2117), (624, 2126), (625, 2129), (650, 2186),

Gene: WilliamBoone\_30 Start: 8027, Stop: 9775, Start Num: 102

Candidate Starts for WilliamBoone\_30:

(Start: 102 @8027 has 27 MA's), (120, 8057), (157, 8132), (187, 8186), (189, 8198), (199, 8216), (219, 8282), (235, 8372), (241, 8411), (249, 8435), (263, 8483), (326, 8732), (329, 8750), (390, 8960), (396, 8975), (449, 9143), (464, 9224), (471, 9248), (501, 9335), (531, 9440), (541, 9482), (558, 9518), (569, 9542), (579, 9557), (640, 9731), (644, 9737),

Gene: Wizard007\_11 Start: 6886, Stop: 8583, Start Num: 62

Candidate Starts for Wizard007\_11:

(Start: 62 @6886 has 371 MA's), (Start: 81 @6910 has 1 MA's), (Start: 148 @7033 has 2 MA's), (196, 7123), (213, 7156), (238, 7255), (263, 7339), (265, 7342), (276, 7381), (299, 7450), (303, 7474), (Start: 313 @7540 has 1 MA's), (335, 7630), (379, 7795), (401, 7882), (408, 7915), (438, 7981), (463, 8053), (464, 8056), (471, 8080), (494, 8131), (498, 8146), (511, 8185), (516, 8206), (545, 8302), (636, 8539), (656, 8569), (658, 8572),

Gene: Wolfwood\_7 Start: 2018, Stop: 3688, Start Num: 120

Candidate Starts for Wolfwood\_7:

(Start: 101 @1988 has 80 MA's), (120, 2018), (147, 2060), (203, 2198), (219, 2246), (226, 2276), (238, 2309), (250, 2360), (252, 2375), (265, 2405), (278, 2456), (305, 2555), (307, 2576), (326, 2645), (335,

2687), (343, 2717), (383, 2864), (391, 2915), (408, 2978), (412, 3002), (454, 3068), (460, 3101), (462, 3125), (463, 3128), (466, 3137), (472, 3158), (483, 3185), (498, 3230), (502, 3242), (504, 3248), (511, 3269), (519, 3308), (556, 3407), (571, 3443), (611, 3530), (632, 3611), (635, 3617), (656, 3674), (658, 3677),

Gene: Wolpertinger\_11 Start: 8027, Stop: 9790, Start Num: 63

Candidate Starts for Wolpertinger\_11:

(Start: 63 @8027 has 231 MA's), (Start: 80 @8048 has 5 MA's), (128, 8135), (173, 8264), (182, 8288), (203, 8351), (248, 8495), (263, 8546), (265, 8549), (299, 8660), (303, 8684), (304, 8687), (Start: 313 @8750 has 1 MA's), (316, 8759), (319, 8774), (351, 8891), (357, 8906), (368, 8966), (389, 9050), (468, 9278), (471, 9290), (494, 9338), (498, 9353), (511, 9392), (516, 9413), (527, 9452), (539, 9497), (545, 9509), (636, 9746), (654, 9773),

Gene: Wooldri\_15 Start: 6868, Stop: 8568, Start Num: 65

Candidate Starts for Wooldri\_15:

(Start: 65 @6868 has 85 MA's), (94, 6916), (175, 7051), (238, 7243), (265, 7330), (Start: 313 @7528 has 1 MA's), (335, 7618), (356, 7681), (392, 7843), (464, 8041), (471, 8065), (472, 8068), (498, 8131), (505, 8152), (516, 8191), (545, 8287), (569, 8341), (594, 8377), (636, 8524), (656, 8554), (658, 8557),

Gene: WorldCup\_10 Start: 6185, Stop: 7972, Start Num: 63

Candidate Starts for WorldCup\_10:

(Start: 63 @6185 has 231 MA's), (143, 6314), (173, 6413), (225, 6575), (234, 6608), (248, 6647), (265, 6701), (276, 6740), (299, 6812), (Start: 313 @6902 has 1 MA's), (319, 6926), (351, 7043), (357, 7058), (382, 7166), (400, 7241), (424, 7340), (444, 7373), (468, 7457), (475, 7478), (494, 7520), (498, 7535), (502, 7547), (511, 7574), (516, 7595), (531, 7649), (545, 7691), (594, 7781), (600, 7799), (615, 7850), (636, 7928), (654, 7955), (656, 7958),

Gene: Wrigley\_2 Start: 485, Stop: 2281, Start Num: 70

Candidate Starts for Wrigley\_2:

(Start: 70 @485 has 45 MA's), (142, 611), (145, 620), (201, 779), (203, 794), (228, 878), (243, 920), (245, 926), (246, 929), (254, 968), (265, 989), (295, 1073), (305, 1127), (306, 1145), (316, 1181), (331, 1256), (345, 1307), (350, 1328), (370, 1409), (390, 1454), (401, 1487), (412, 1544), (456, 1613), (468, 1667), (472, 1682), (475, 1688), (479, 1697), (491, 1736), (494, 1754), (497, 1766), (533, 1904), (539, 1940), (545, 1952), (549, 1958), (558, 1976), (569, 2003), (578, 2027), (598, 2090), (609, 2132), (623, 2189), (632, 2219), (643, 2243), (656, 2267), (658, 2270),

Gene: WunderPhul\_15 Start: 7514, Stop: 9268, Start Num: 63

Candidate Starts for WunderPhul\_15:

(Start: 63 @7514 has 231 MA's), (143, 7646), (173, 7745), (182, 7769), (189, 7796), (203, 7832), (225, 7907), (265, 8030), (269, 8045), (276, 8069), (299, 8138), (303, 8162), (304, 8165), (Start: 313 @8228 has 1 MA's), (319, 8252), (356, 8381), (357, 8384), (383, 8495), (432, 8657), (464, 8744), (468, 8756), (471, 8768), (494, 8816), (498, 8831), (511, 8870), (516, 8891), (539, 8975), (545, 8987), (636, 9224), (654, 9251), (656, 9254),

Gene: XFactor\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for XFactor\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474, 1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611,

2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Xena\_11 Start: 6881, Stop: 8578, Start Num: 62

Candidate Starts for Xena\_11:

(Start: 62 @6881 has 371 MA's), (Start: 81 @6905 has 1 MA's), (213, 7151), (239, 7256), (263, 7334), (265, 7337), (276, 7376), (299, 7445), (303, 7469), (Start: 313 @7535 has 1 MA's), (335, 7625), (379, 7790), (389, 7835), (401, 7877), (408, 7910), (438, 7976), (463, 8048), (464, 8051), (471, 8075), (498, 8141), (511, 8180), (516, 8201), (545, 8297), (635, 8531), (636, 8534), (656, 8564), (658, 8567),

Gene: XianYue\_12 Start: 7369, Stop: 9150, Start Num: 63

Candidate Starts for XianYue\_12:

(30, 7249), (49, 7342), (Start: 63 @7369 has 231 MA's), (143, 7501), (Start: 148 @7513 has 2 MA's), (169, 7582), (173, 7600), (263, 7882), (265, 7885), (276, 7924), (299, 7993), (Start: 313 @8083 has 1 MA's), (319, 8107), (344, 8206), (356, 8236), (357, 8239), (464, 8626), (502, 8725), (511, 8752), (516, 8773), (539, 8857), (545, 8869), (636, 9106), (654, 9133), (656, 9136), (658, 9139), (659, 9142),

Gene: Yakult\_5 Start: 1064, Stop: 2764, Start Num: 99

Candidate Starts for Yakult\_5:

(Start: 99 @1064 has 202 MA's), (Start: 137 @1118 has 1 MA's), (147, 1139), (157, 1166), (248, 1430), (250, 1439), (252, 1454), (259, 1475), (265, 1484), (278, 1535), (283, 1547), (305, 1634), (326, 1724), (345, 1802), (362, 1868), (372, 1904), (412, 2081), (466, 2213), (512, 2342), (523, 2381), (524, 2387), (624, 2657), (637, 2699), (656, 2750), (658, 2753),

Gene: Yang\_2 Start: 545, Stop: 2242, Start Num: 84

Candidate Starts for Yang\_2:

(10, 242), (Start: 84 @545 has 42 MA's), (Start: 137 @632 has 1 MA's), (247, 917), (265, 974), (276, 1016), (305, 1112), (316, 1166), (344, 1286), (367, 1376), (464, 1661), (502, 1772), (523, 1841), (545, 1916), (553, 1931), (599, 2057), (620, 2141), (627, 2165),

Gene: Yarn\_3 Start: 1114, Stop: 2793, Start Num: 101

Candidate Starts for Yarn\_3:

(Start: 101 @1114 has 80 MA's), (Start: 137 @1165 has 1 MA's), (147, 1186), (Start: 148 @1189 has 2 MA's), (177, 1231), (201, 1297), (Start: 218 @1357 has 2 MA's), (224, 1378), (225, 1387), (250, 1474), (259, 1510), (265, 1519), (278, 1570), (305, 1669), (307, 1690), (316, 1723), (326, 1759), (362, 1903), (372, 1939), (383, 1978), (414, 2125), (436, 2149), (466, 2248), (496, 2332), (523, 2419), (556, 2515), (587, 2563), (596, 2587), (611, 2638), (632, 2719), (656, 2779), (658, 2782),

Gene: Yasdnii\_6 Start: 2376, Stop: 4022, Start Num: 59

Candidate Starts for Yasdnii\_6:

(Start: 59 @2376 has 85 MA's), (Start: 75 @2394 has 21 MA's), (189, 2598), (203, 2634), (255, 2814), (266, 2835), (296, 2922), (307, 2994), (Start: 313 @3018 has 1 MA's), (338, 3117), (342, 3132), (351, 3156), (353, 3162), (405, 3330), (425, 3390), (464, 3480), (470, 3501), (502, 3591), (533, 3699), (545, 3738), (556, 3759), (558, 3765), (563, 3783), (624, 3939), (660, 4017),

Gene: Yecey3\_12 Start: 6313, Stop: 8085, Start Num: 75

Candidate Starts for Yecey3\_12:

(Start: 75 @6313 has 21 MA's), (143, 6430), (173, 6529), (225, 6691), (248, 6763), (265, 6817), (276, 6856), (299, 6928), (Start: 313 @7018 has 1 MA's), (316, 7027), (319, 7042), (351, 7159), (357, 7174), (382, 7282), (400, 7357), (408, 7393), (423, 7453), (444, 7489), (454, 7513), (475, 7594), (494, 7633), (511, 7687), (516, 7708), (539, 7792), (545, 7804), (595, 7897), (600, 7912), (615, 7963), (636, 8041), (654, 8068), (656, 8071),

Gene: YesChef\_2 Start: 533, Stop: 2290, Start Num: 84

Candidate Starts for YesChef\_2:

(10, 242), (13, 251), (Start: 84 @533 has 42 MA's), (247, 905), (265, 962), (280, 1010), (305, 1100), (316, 1154), (344, 1274), (367, 1364), (418, 1526), (464, 1700), (545, 1955), (553, 1970), (576, 2024), (599, 2105), (620, 2189), (627, 2213),

Gene: Yndexa\_26 Start: 11957, Stop: 13684, Start Num: 99

Candidate Starts for Yndexa\_26:

(Start: 99 @11957 has 202 MA's), (184, 12107), (197, 12158), (216, 12233), (219, 12242), (236, 12365), (241, 12383), (317, 12665), (323, 12692), (367, 12860), (371, 12872), (405, 12983), (476, 13166), (506, 13280), (511, 13295), (518, 13328), (547, 13403), (611, 13547), (621, 13589), (629, 13619), (651, 13661),

Gene: YoSam321\_11 Start: 6884, Stop: 8581, Start Num: 62

Candidate Starts for YoSam321\_11:

(20, 6707), (23, 6725), (27, 6755), (Start: 62 @6884 has 371 MA's), (Start: 81 @6908 has 1 MA's), (Start: 148 @7031 has 2 MA's), (196, 7121), (213, 7154), (263, 7337), (265, 7340), (276, 7379), (299, 7448), (303, 7472), (Start: 313 @7538 has 1 MA's), (335, 7628), (379, 7793), (401, 7880), (408, 7913), (438, 7979), (463, 8051), (464, 8054), (471, 8078), (494, 8129), (498, 8144), (511, 8183), (516, 8204), (545, 8300), (636, 8537), (656, 8567), (658, 8570),

Gene: Yogi\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Yogi\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (269, 3630), (291, 3690), (303, 3747), (304, 3750), (Start: 313 @3798 has 1 MA's), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Yokurt\_15 Start: 7514, Stop: 9268, Start Num: 63

Candidate Starts for Yokurt\_15:

(Start: 63 @7514 has 231 MA's), (143, 7646), (173, 7745), (182, 7769), (189, 7796), (203, 7832), (225, 7907), (265, 8030), (269, 8045), (276, 8069), (299, 8138), (303, 8162), (304, 8165), (Start: 313 @8228 has 1 MA's), (319, 8252), (356, 8381), (357, 8384), (383, 8495), (432, 8657), (464, 8744), (468, 8756), (471, 8768), (494, 8816), (498, 8831), (511, 8870), (516, 8891), (539, 8975), (545, 8987), (636, 9224), (654, 9251), (656, 9254),

Gene: Yoncess\_8 Start: 3156, Stop: 4838, Start Num: 66

Candidate Starts for Yoncess\_8:

(Start: 66 @3156 has 35 MA's), (Start: 179 @3342 has 2 MA's), (203, 3414), (213, 3426), (215, 3450), (219, 3462), (269, 3630), (291, 3690), (303, 3747), (304, 3750), (Start: 313 @3798 has 1 MA's), (377, 4053), (383, 4071), (395, 4125), (456, 4269), (464, 4311), (475, 4344), (502, 4413), (545, 4557), (563, 4602), (599, 4662), (624, 4761), (636, 4794), (654, 4821), (656, 4824), (658, 4827),

Gene: Yorick\_2 Start: 571, Stop: 2208, Start Num: 99

Candidate Starts for Yorick\_2:

(Start: 99 @571 has 202 MA's), (Start: 105 @580 has 2 MA's), (Start: 115 @595 has 3 MA's), (Start: 127 @616 has 1 MA's), (Start: 134 @628 has 1 MA's), (Start: 144 @652 has 2 MA's), (146, 655), (153, 673), (185, 718), (200, 757), (222, 844), (223, 850), (233, 904), (245, 928), (248, 937), (249, 940), (252, 961), (258, 982), (267, 997), (282, 1054), (296, 1093), (306, 1162), (309, 1168), (317, 1198), (318, 1201), (319, 1210), (323, 1225), (327, 1243), (338, 1294), (364, 1387), (367, 1396), (417, 1567), (435, 1579), (464, 1663), (474, 1693), (476, 1696), (478, 1699), (498, 1756), (503, 1771), (505, 1777), (506, 1780), (511, 1795), (514, 1804), (524, 1843), (532, 1873), (543, 1903), (547, 1912), (560, 1945), (576, 1978), (593, 2005), (605, 2038), (612, 2068), (617, 2089), (621, 2113), (624, 2122), (625, 2125), (650, 2182),

Gene: Yosif\_7 Start: 2837, Stop: 4483, Start Num: 61

Candidate Starts for Yosif\_7:

(53, 2822), (Start: 57 @2828 has 2 MA's), (Start: 61 @2837 has 11 MA's), (Start: 64 @2840 has 1 MA's), (Start: 75 @2855 has 21 MA's), (189, 3059), (203, 3095), (Start: 218 @3140 has 2 MA's), (219, 3143), (250, 3248), (255, 3275), (257, 3281), (259, 3284), (266, 3296), (296, 3383), (304, 3431), (Start: 313 @3479 has 1 MA's), (338, 3578), (368, 3692), (389, 3731), (395, 3752), (405, 3791), (464, 3941), (470, 3962), (475, 3974), (494, 4025), (511, 4079), (533, 4160), (545, 4199), (558, 4226), (563, 4244), (624, 4400), (660, 4478),

Gene: Yucky\_4 Start: 1762, Stop: 3438, Start Num: 101

Candidate Starts for Yucky\_4:

(Start: 101 @1762 has 80 MA's), (Start: 137 @1813 has 1 MA's), (147, 1834), (177, 1879), (189, 1921), (203, 1957), (224, 2023), (243, 2086), (250, 2119), (259, 2155), (265, 2164), (266, 2167), (278, 2215), (283, 2227), (305, 2314), (347, 2494), (362, 2548), (390, 2671), (406, 2728), (412, 2761), (455, 2827), (466, 2893), (468, 2899), (498, 2983), (523, 3064), (531, 3097), (558, 3166), (599, 3244), (625, 3343), (632, 3364), (635, 3370), (656, 3424), (658, 3427),

Gene: Yummy\_5 Start: 1017, Stop: 2696, Start Num: 101

Candidate Starts for Yummy\_5:

(Start: 101 @1017 has 80 MA's), (Start: 137 @1068 has 1 MA's), (147, 1089), (174, 1128), (203, 1215), (Start: 218 @1260 has 2 MA's), (224, 1281), (225, 1290), (246, 1362), (259, 1413), (265, 1422), (278, 1473), (305, 1572), (307, 1593), (316, 1626), (326, 1662), (362, 1806), (372, 1842), (383, 1881), (388, 1914), (401, 1962), (412, 2019), (436, 2052), (455, 2085), (466, 2151), (468, 2157), (493, 2223), (496, 2235), (498, 2241), (523, 2322), (556, 2418), (587, 2466), (611, 2541), (632, 2622), (656, 2682), (658, 2685),

Gene: Yvonnetastic\_28 Start: 10462, Stop: 12180, Start Num: 102

Candidate Starts for Yvonnetastic\_28:

(Start: 102 @10462 has 27 MA's), (125, 10498), (178, 10594), (235, 10807), (238, 10834), (241, 10846), (249, 10870), (285, 10984), (329, 11179), (341, 11227), (366, 11329), (390, 11389), (396, 11404), (468, 11647), (495, 11728), (502, 11749), (511, 11776), (531, 11851), (541, 11893), (623, 12094), (635, 12127),

Gene: Zainub\_8 Start: 2746, Stop: 4392, Start Num: 59

Candidate Starts for Zainub\_8:

(Start: 59 @2746 has 85 MA's), (Start: 150 @2896 has 2 MA's), (213, 3016), (215, 3040), (246, 3142), (255, 3184), (257, 3190), (266, 3205), (296, 3292), (307, 3364), (Start: 313 @3388 has 1 MA's), (338, 3487), (347, 3523), (357, 3541), (396, 3664), (405, 3700), (426, 3763), (464, 3850), (470, 3871), (475, 3883), (502, 3961), (511, 3988), (533, 4069), (545, 4108), (556, 4129), (563, 4153), (599, 4213), (624, 4309),

Gene: Zaka\_15 Start: 7514, Stop: 9268, Start Num: 63

Candidate Starts for Zaka\_15:

(Start: 63 @7514 has 231 MA's), (143, 7646), (173, 7745), (182, 7769), (189, 7796), (203, 7832), (225, 7907), (265, 8030), (269, 8045), (276, 8069), (299, 8138), (303, 8162), (304, 8165), (Start: 313 @8228 has 1 MA's), (319, 8252), (356, 8381), (357, 8384), (383, 8495), (432, 8657), (464, 8744), (468, 8756), (471, 8768), (494, 8816), (498, 8831), (511, 8870), (516, 8891), (539, 8975), (545, 8987), (636, 9224), (654, 9251), (656, 9254),

Gene: ZamZam\_9 Start: 2501, Stop: 4147, Start Num: 61

Candidate Starts for ZamZam\_9:

(Start: 57 @2492 has 2 MA's), (Start: 61 @2501 has 11 MA's), (Start: 64 @2504 has 1 MA's), (Start: 75 @2519 has 21 MA's), (189, 2723), (203, 2759), (Start: 218 @2804 has 2 MA's), (219, 2807), (250, 2912), (255, 2939), (259, 2948), (265, 2957), (266, 2960), (304, 3095), (Start: 313 @3143 has 1 MA's), (338, 3242), (357, 3296), (368, 3356), (389, 3395), (405, 3455), (409, 3473), (441, 3536), (464, 3605), (470, 3626), (494, 3689), (502, 3716), (511, 3743), (516, 3764), (533, 3824), (545, 3863), (558, 3890), (563, 3908), (629, 4085),

Gene: Zarafa\_11 Start: 6558, Stop: 8255, Start Num: 62

Candidate Starts for Zarafa\_11:

(Start: 62 @6558 has 371 MA's), (109, 6630), (213, 6828), (257, 7002), (265, 7014), (276, 7053), (283, 7065), (299, 7122), (303, 7146), (Start: 313 @7212 has 1 MA's), (316, 7221), (335, 7302), (342, 7329), (379, 7467), (395, 7533), (401, 7554), (406, 7578), (408, 7587), (438, 7653), (464, 7728), (471, 7752), (472, 7755), (475, 7761), (479, 7770), (498, 7818), (516, 7878), (545, 7974), (563, 8019), (569, 8028), (625, 8181), (636, 8211), (656, 8241), (658, 8244),

Gene: Zareef\_6 Start: 1990, Stop: 3690, Start Num: 101

Candidate Starts for Zareef\_6:

(Start: 101 @1990 has 80 MA's), (120, 2020), (147, 2062), (203, 2200), (219, 2248), (226, 2278), (238, 2311), (246, 2347), (250, 2362), (252, 2377), (265, 2407), (278, 2458), (305, 2557), (307, 2578), (326, 2647), (335, 2689), (343, 2719), (383, 2866), (391, 2917), (408, 2980), (412, 3004), (454, 3070), (460, 3103), (462, 3127), (463, 3130), (466, 3139), (472, 3160), (483, 3187), (498, 3232), (502, 3244), (504, 3250), (511, 3271), (519, 3310), (556, 3409), (571, 3445), (611, 3532), (632, 3613), (635, 3619), (656, 3676), (658, 3679),

Gene: Zeeculate\_10 Start: 6722, Stop: 8410, Start Num: 62

Candidate Starts for Zeeculate\_10:

(Start: 62 @6722 has 371 MA's), (213, 6986), (215, 7010), (265, 7172), (274, 7205), (299, 7280), (Start: 313 @7370 has 1 MA's), (319, 7394), (327, 7421), (337, 7469), (379, 7625), (392, 7685), (449, 7817), (472, 7910), (477, 7919), (481, 7931), (498, 7973), (505, 7994), (515, 8021), (545, 8129), (594, 8219), (621, 8324),

Gene: Zemlya\_7 Start: 2376, Stop: 4022, Start Num: 59

Candidate Starts for Zemlya\_7:

(Start: 59 @2376 has 85 MA's), (Start: 75 @2394 has 21 MA's), (189, 2598), (203, 2634), (255, 2814), (266, 2835), (282, 2880), (296, 2922), (307, 2994), (Start: 313 @3018 has 1 MA's), (338, 3117), (342, 3132), (351, 3156), (353, 3162), (405, 3330), (464, 3480), (470, 3501), (475, 3513), (502, 3591), (533, 3699), (545, 3738), (556, 3759), (558, 3765), (563, 3783), (624, 3939),

Gene: ZenTime222\_3 Start: 724, Stop: 2607, Start Num: 54

Candidate Starts for ZenTime222\_3:

(13, 475), (Start: 54 @724 has 7 MA's), (108, 805), (114, 814), (156, 910), (158, 922), (203, 1054), (249, 1201), (250, 1207), (255, 1234), (265, 1252), (286, 1315), (317, 1450), (362, 1651), (386, 1708), (466, 1927), (485, 1978), (490, 2002), (501, 2053), (534, 2182), (540, 2221), (545, 2230), (568, 2281), (580, 2320), (595, 2407), (599, 2419), (623, 2512), (627, 2527), (628, 2530),

Gene: Zephyr\_11 Start: 6863, Stop: 8551, Start Num: 62

Candidate Starts for Zephyr\_11:

(Start: 62 @6863 has 371 MA's), (Start: 179 @7043 has 2 MA's), (213, 7127), (219, 7163), (225, 7190), (265, 7313), (299, 7421), (Start: 313 @7511 has 1 MA's), (319, 7535), (327, 7562), (337, 7610), (359, 7679), (379, 7766), (392, 7826), (472, 8051), (477, 8060), (481, 8072), (498, 8114), (505, 8135), (515, 8162), (545, 8270), (594, 8360), (621, 8465),

Gene: Zerg\_2 Start: 572, Stop: 2209, Start Num: 99

Candidate Starts for Zerg\_2:

(Start: 99 @572 has 202 MA's), (Start: 105 @581 has 2 MA's), (Start: 115 @596 has 3 MA's), (Start: 134 @629 has 1 MA's), (Start: 144 @653 has 2 MA's), (146, 656), (185, 719), (200, 758), (222, 845), (233, 905), (245, 929), (248, 938), (249, 941), (252, 962), (258, 983), (267, 998), (282, 1055), (296, 1094), (306, 1163), (309, 1169), (317, 1199), (318, 1202), (319, 1211), (323, 1226), (327, 1244), (338, 1295), (358, 1346), (364, 1388), (367, 1397), (417, 1568), (435, 1580), (464, 1664), (474, 1694), (476, 1697), (478, 1700), (498, 1757), (503, 1772), (505, 1778), (506, 1781), (511, 1796), (514, 1805), (532, 1874), (543, 1904), (547, 1913), (560, 1946), (569, 1964), (576, 1979), (593, 2006), (602, 2030), (605, 2039), (612, 2069), (617, 2090), (621, 2114), (624, 2123), (625, 2126), (650, 2183),

Gene: Zeta1847\_2 Start: 478, Stop: 2175, Start Num: 83

Candidate Starts for Zeta1847\_2:

(Start: 83 @478 has 13 MA's), (183, 649), (190, 676), (201, 688), (225, 778), (243, 832), (265, 901), (280, 949), (512, 1726), (545, 1840), (627, 2098),

Gene: Zetzy\_12 Start: 6522, Stop: 8222, Start Num: 65

Candidate Starts for Zetzy\_12:

(Start: 65 @6522 has 85 MA's), (94, 6570), (Start: 137 @6642 has 1 MA's), (175, 6705), (265, 6984), (Start: 313 @7182 has 1 MA's), (335, 7272), (356, 7335), (392, 7497), (464, 7695), (471, 7719), (472, 7722), (498, 7785), (502, 7797), (505, 7806), (516, 7845), (545, 7941), (569, 7995), (594, 8031), (636, 8178), (656, 8208), (658, 8211),

Gene: Zeuska\_12 Start: 7541, Stop: 9229, Start Num: 62

Candidate Starts for Zeuska\_12:

(Start: 62 @7541 has 371 MA's), (Start: 179 @7721 has 2 MA's), (213, 7805), (219, 7841), (225, 7868), (265, 7991), (299, 8099), (Start: 313 @8189 has 1 MA's), (319, 8213), (327, 8240), (337, 8288), (359, 8357), (379, 8444), (392, 8504), (472, 8729), (477, 8738), (481, 8750), (498, 8792), (505, 8813), (515, 8840), (545, 8948), (594, 9038), (621, 9143),

Gene: Zimmer\_14 Start: 9025, Stop: 10809, Start Num: 63

Candidate Starts for Zimmer\_14:

(48, 8998), (Start: 63 @9025 has 231 MA's), (143, 9157), (162, 9223), (173, 9256), (203, 9343), (248, 9487), (265, 9541), (276, 9580), (299, 9652), (Start: 313 @9742 has 1 MA's), (319, 9766), (344, 9865), (351, 9883), (357, 9898), (389, 10042), (444, 10213), (464, 10285), (494, 10357), (498, 10372), (516, 10432), (545, 10528), (594, 10618), (635, 10762), (636, 10765), (654, 10792), (656, 10795), (658, 10798),

Gene: Zion\_12 Start: 6676, Stop: 8742, Start Num: 4

Candidate Starts for Zion\_12:

(Start: 4 @6676 has 5 MA's), (7, 6733), (24, 6871), (29, 6901), (34, 6925), (79, 7042), (88, 7063), (Start: 105 @7087 has 2 MA's), (138, 7150), (149, 7174), (212, 7336), (214, 7351), (215, 7369), (216, 7372), (223, 7396), (225, 7414), (241, 7471), (242, 7474), (252, 7516), (262, 7543), (268, 7561), (274, 7588), (279, 7606), (281, 7609), (299, 7663), (317, 7747), (318, 7750), (322, 7771), (327, 7792), (345, 7864), (358, 7894), (367, 7945), (394, 8026), (404, 8059), (465, 8221), (502, 8323), (511, 8350), (514, 8359), (552, 8470), (591, 8533), (621, 8644), (624, 8653), (659, 8734),

Gene: Zizzle\_2 Start: 587, Stop: 2224, Start Num: 99

Candidate Starts for Zizzle\_2:

(Start: 99 @587 has 202 MA's), (109, 602), (Start: 115 @611 has 3 MA's), (118, 617), (Start: 134 @644 has 1 MA's), (Start: 144 @668 has 2 MA's), (146, 671), (185, 734), (189, 752), (200, 773), (222, 860), (223, 866), (233, 920), (241, 932), (245, 944), (248, 953), (249, 956), (252, 977), (258, 998), (267, 1013), (282, 1070), (296, 1109), (306, 1178), (309, 1184), (317, 1214), (318, 1217), (319, 1226), (323, 1241), (327, 1259), (338, 1310), (367, 1412), (417, 1583), (435, 1595), (450, 1613), (464, 1679), (474,

1709), (476, 1712), (478, 1715), (498, 1772), (503, 1787), (505, 1793), (506, 1796), (511, 1811), (514, 1820), (532, 1889), (543, 1919), (547, 1928), (560, 1961), (576, 1994), (593, 2021), (605, 2054), (611, 2081), (612, 2084), (617, 2105), (621, 2129), (624, 2138), (625, 2141), (650, 2198),

Gene: Zolita\_8 Start: 6266, Stop: 8017, Start Num: 42

Candidate Starts for Zolita\_8:

(Start: 37 @6239 has 19 MA's), (Start: 42 @6266 has 30 MA's), (73, 6335), (97, 6374), (140, 6449), (143, 6455), (203, 6587), (225, 6662), (226, 6665), (248, 6731), (284, 6839), (291, 6863), (Start: 313 @6971 has 1 MA's), (324, 7016), (342, 7094), (344, 7100), (345, 7103), (385, 7265), (386, 7271), (395, 7298), (464, 7493), (471, 7517), (498, 7580), (502, 7592), (511, 7619), (516, 7640), (531, 7694), (539, 7724), (545, 7736), (636, 7973), (658, 8006), (660, 8012),

Gene: Zulu\_15 Start: 7513, Stop: 9267, Start Num: 63

Candidate Starts for Zulu\_15:

(Start: 63 @7513 has 231 MA's), (143, 7645), (173, 7744), (182, 7768), (189, 7795), (203, 7831), (225, 7906), (265, 8029), (269, 8044), (276, 8068), (299, 8137), (303, 8161), (304, 8164), (Start: 313 @8227 has 1 MA's), (319, 8251), (356, 8380), (357, 8383), (383, 8494), (432, 8656), (464, 8743), (468, 8755), (471, 8767), (494, 8815), (498, 8830), (511, 8869), (516, 8890), (539, 8974), (545, 8986), (636, 9223), (654, 9250), (656, 9253),

Gene: phiCAM\_06 Start: 2516, Stop: 4162, Start Num: 61

Candidate Starts for phiCAM\_06:

(Start: 57 @2507 has 2 MA's), (Start: 61 @2516 has 11 MA's), (Start: 64 @2519 has 1 MA's), (Start: 75 @2534 has 21 MA's), (107, 2588), (120, 2612), (189, 2738), (201, 2759), (203, 2774), (246, 2912), (250, 2927), (255, 2954), (259, 2963), (266, 2975), (296, 3062), (299, 3083), (304, 3110), (Start: 313 @3158 has 1 MA's), (338, 3257), (389, 3410), (395, 3431), (405, 3470), (464, 3620), (466, 3626), (470, 3641), (475, 3653), (494, 3704), (511, 3758), (545, 3878), (558, 3905), (563, 3923), (624, 4079),

Gene: phiSASD1\_22 Start: 558, Stop: 2168, Start Num: 119

Candidate Starts for phiSASD1\_22:

(Start: 119 @558 has 1 MA's), (132, 582), (177, 651), (188, 684), (201, 735), (204, 753), (211, 759), (241, 924), (252, 981), (254, 990), (265, 1011), (273, 1041), (283, 1059), (286, 1068), (311, 1182), (317, 1203), (321, 1224), (327, 1239), (364, 1365), (412, 1521), (452, 1590), (469, 1662), (502, 1770), (511, 1797), (529, 1839), (538, 1875), (552, 1902), (555, 1908), (604, 2013), (621, 2082), (622, 2085), (624, 2091), (656, 2157),