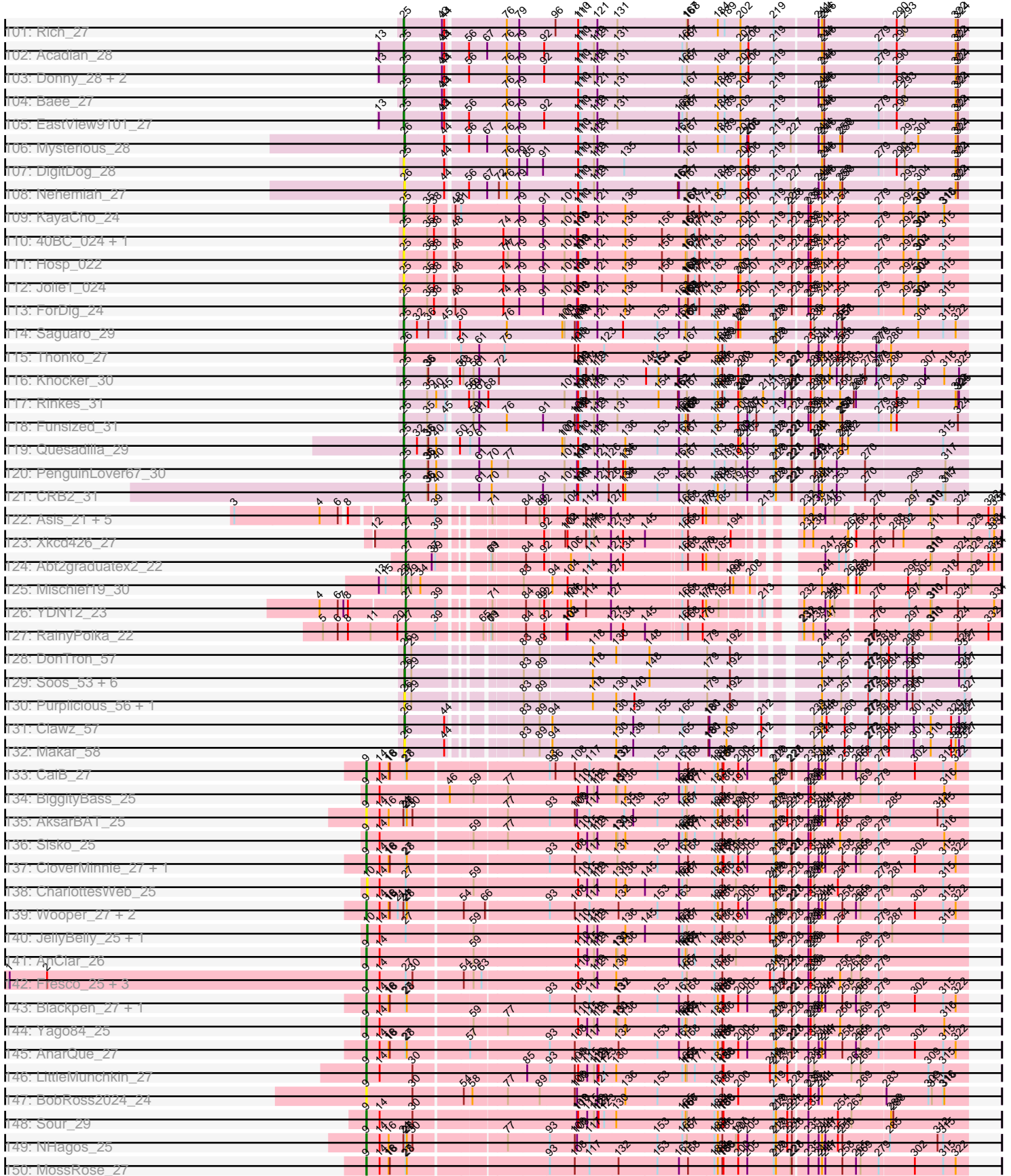




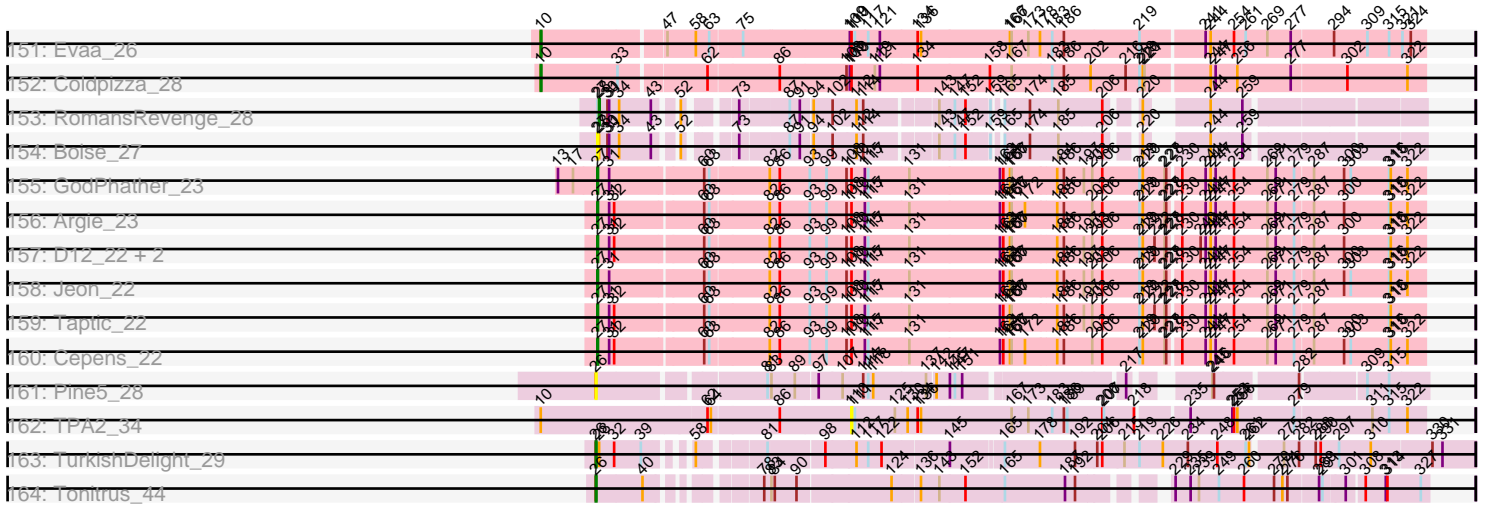
Pham 307821

|                        |    |   |   |   |   |   |   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------------|----|---|---|---|---|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 51: Lars_30 + 24       | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 52: Kaleb_30 + 2       | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 53: Koihan_30 + 5      | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 54: ItsyBitsy1_30      | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 55: Laurie_30 + 1      | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 56: Godines_30         | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 57: Mulaychimus_29 + 5 | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 58: Bernardo_29        | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 59: Briakila_29 + 1    | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 60: Baloo_29 + 14      | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 61: Athena_30          | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 62: Kronus_28 + 3      | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 63: SwamyDoc_29 + 8    | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 64: Ben11_28           | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 65: Ulvio_28 + 3       | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 66: Yinz_29 + 1        | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 67: MmasiCarm_29       | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 68: Phaedrus_27 + 4    | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 69: Chalmers_29        | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 70: HarveySt_29        | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 71: Pipelish_30        | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 72: Hairpint_28        | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 73: Nozo_29            | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 119 | 120 | 150 | 150 | 152 | 184 | 206 | 206 | 230 | 234 | 271 | 280 | 304 | 312 |
| 74: Haily898_25 + 7    | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 75: VioletZ_26 + 2     | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 76: QueenPie_25        | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 77: Magpie_25 + 3      | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 78: Hangman_26 + 1     | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 79: Renkel_25 + 1      | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 80: Stinger_24         | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 81: Mudslide_26        | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 82: RawrgerThat_26 + 1 | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 83: Xincheng_25 + 1    | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 84: Fanaw_25           | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 85: ChrisnMich_25      | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 86: Heatn_26           | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 87: JAimaL_26          | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 88: Cooper_26          | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 89: Prince_26          | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 90: AlanGrant_27 + 1   | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 91: Austelle_27        | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 92: Hydro_26           | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 93: Lolaiove_26        | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 94: JoyceMaria_26      | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 95: Nigel_24           | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 96: Zemanar_27         | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 97: Phelemich_28 + 1   | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 98: Rita130_28 + 1     | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 99: Serendipitous_27   | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |
| 100: Shenyu_28 + 3     | 26 | 3 | 5 | 5 | 5 | 5 | 7 | 1 | 90  | 110 | 130 | 130 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 300 | 310 |

Pham 307821



Pham 307821



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 307821 Report

This analysis was run 06/27/26 on database version 652.

Pham number 307821 has 588 members, 82 are drafts.

Phages represented in each track:

- Track 1 : Caterpie\_26
- Track 2 : Mao1\_24, Mask\_25, Sejanus\_25
- Track 3 : JohnLord\_27
- Track 4 : Dori\_25
- Track 5 : StAugustine\_32
- Track 6 : Causa\_34
- Track 7 : Ranunculus\_31
- Track 8 : Wilde\_32
- Track 9 : Tank\_32
- Track 10 : Rizwana\_30
- Track 11 : Odyssey395\_39, DogYard\_37, Forrestell\_34, NyleyClemson\_32, MellowYellow\_34, Pureglobe5\_39, Pointis\_37
- Track 12 : BetaFish\_37
- Track 13 : Beagle\_38, Hive\_37, Popstraw\_35, Kubulix\_38
- Track 14 : RazzB\_33
- Track 15 : PhuzzTulsa\_35
- Track 16 : RIPWilbur\_35
- Track 17 : Nikan\_32, Ren19\_30
- Track 18 : Ollypop\_35
- Track 19 : BruhMoment\_32
- Track 20 : AWGoat\_30
- Track 21 : SilentRX\_32
- Track 22 : Flake\_29, Jiminy\_28, OneBrain\_29, Aleia\_29, Taraxa\_28, Etaye\_29, Coletti\_29, Duggie\_28, Chute\_28, Keitherie\_29, Windsor\_28, Virgeve\_28, Gwennie1\_29, BlacksBerry\_28, DaddyDaniels\_29, Larson\_30, Struggle\_28
- Track 23 : Giraffe\_29, Banjo\_28, Serpentine\_0029, Haimas\_29, KingTut\_20, Iridoclysis\_29, RedRaider89\_30, Nacho\_0029, Adriana\_29, EmGer13\_28, FremontTroll\_29, Kimbrough\_29, Hetaeria\_29, OliverWalter\_29, Oosterbaan\_29, ThreeOh3D2\_29, Soto\_29, KingVeVeVe\_29, Valjean\_29, Matalotodo\_29, SilverBell\_29, FluffyNinja\_29, Usavi\_29, Olive\_29, Zelda\_29, Gyarad\_0029, Eugenia\_29, EmpTee\_29, Prickles\_29, Mulan\_28, Pherdinand\_29, ShadowBud\_29, LuckyMarjie\_28, Thora\_29, Altwerkus\_28, DoIOn\_30, Zonia\_29, Boehler\_29, Murdoc\_29, Cher\_28, KLucky39\_29, Buckeye\_29, Toni\_28, Skippy\_29, Pipsqueak\_29, Gwilliam\_29, SDcharge11\_29, Plmatters\_29, Gareth\_28, Antonia\_28, Megamind20\_29, Chah\_30, Newman\_29, Kwadwo\_28, Manad\_28, Simielle\_28, Mana\_28, Squid\_29, Daffy\_29, Olak\_28, Freya\_28, Cornobble\_28, Numberten\_29, ABU\_29, Hamish\_29, BlackStallion\_29, Andre\_29, Scoot17C\_29, Mcshane\_28,

Yoshand\_29, Schadenfreude\_28, LostAndPhound\_28, MitKao\_29, Haleema\_28,  
 Scrick\_29, Swish\_29, Mutante\_28, Lulumae\_28, Bishoperium\_28, Roy17\_29,  
 Sigman\_29, Orion\_29, BoogieWoogie\_28, Serendipity\_29, Xavier\_28,  
 Spartan300\_29, Lumine\_28, Megatron\_29, LeeLot\_29, Dingo\_29, KlimbOn\_29,  
 Basato\_30, PhrodoBaggins\_28, Beaglebox\_28, Maru\_28, Lopsy\_28, Lulwa\_29,  
 Jillium\_28, Sophia\_28, Surely\_29, Mesmerelda\_28, Grand2040\_28, Chunky\_29,  
 Slatt\_29, Mosaic\_28, Chorkpop\_29, ProfessorX\_29, Crownjwl\_29, Kikipoo\_29,  
 Emiris\_29, Harvey\_29, Charles1\_29, Telesworld\_28, SassyCat97\_28, Burr\_28,  
 Childish\_28, QueenBeane\_29, Selr12\_29, Hertubise\_29, Omniscient\_29, Ricotta\_28,  
 Zaider\_30, Badfish\_29, Roscoe\_30, Held\_29, Lego3393\_29, Horchata\_29,  
 TooFast2Furius\_30, NiaNia\_30, DoesntMatter\_29, Colbert\_29, Nyala\_28,  
 Phareon\_29, AbsoluteMadLad\_28, Inverness\_29, LeiMonet\_29, Fang\_29, Kahve\_28,  
 YouGoGlencoco\_29, Quisquiliae\_29, Cosmolli16\_28, ShiVal\_29, LemonSlice\_29,  
 DonSanchon\_28, Legolas\_28, Gophee\_29, Cannibal\_29, Waterdiva\_29,  
 HighStump\_28, Puhitonio\_29, HSavage\_29, IsaacEli\_29, Eremos\_29,  
 PallasAthena\_29, Morgushi\_29, Dice\_28, Aonishiki\_29, Carthage\_27, MRabcd\_28,  
 JacAttac\_29, Riggan\_29, UAch1\_29, Lasso\_29, Dione\_28, Samaymay\_29,  
 Sheila\_29, True\_28, Katniss\_29, Timmi\_28, Suffolk\_29, Mesh1\_29,  
 TomBombadil\_29, AltPhacts\_29, Phipps\_29, PhatCats2014\_29, Kloppinator\_29,  
 Craff\_29, Potter\_28, Morty\_29, Vaticameos\_29, Piglet\_0028, Phunky\_29,  
 HenryJackson\_28, CamL\_29, Phamished\_29, Fringe\_29, Vaishali24\_28,  
 FugateOSU\_28, Orfeu\_28, Robyn\_28, BlueHusk\_29, SallyH\_29, FriarPreacher\_29,  
 Podrick\_29, GreenChile\_29, Squiggle\_29, Vista\_29, Tooj\_29, RedMaple\_28,  
 Pacifista\_28, Orwigg\_28, Aelin\_28, Anderson\_29, Riverton\_29, TallGrassMM\_29,  
 Tomlarah\_29, Placalicious\_28, UncleHowie\_29, Bluephacebaby\_28, Vortex\_29,  
 PG1\_29, Vivaldi\_29, Chipette\_30

- Track 24 : SirBeauregard\_29, Chaelin\_29
- Track 25 : Mikota\_29, Nicole21\_29, Frankicide\_29, DirtJuice\_29, Plata\_28,  
Virapocalypse\_29, Roliet\_29, JangoPhett\_29, Daka\_29
- Track 26 : Phleuron\_28, BatteryCK\_28, AngelCake\_29, Phergie\_28, Magic8\_29,  
Cornbread\_28, Veritas\_28, MichaelPhcott\_28, Kailash\_29, Mag7\_28,  
PhrankReynolds\_28, LasagnaCat\_29, PhenghisKhan\_28, Hartsy\_29
- Track 27 : DelRivs\_28, Jesabah\_29, Soile\_29, Iridessa\_29
- Track 28 : DuchessDung\_27, Rimu\_29, Caspiroi\_28, MrPhizzler\_29, Oline\_28,  
Maskar\_28, Derpp\_28, TyrionL\_28, Trypo\_29, Hocus\_28, Doddsville\_29, Swiphy\_29,  
JakeO\_28, Schueller\_28, Wallhey\_28, Ashraf\_28, ImtiyazSitla\_28, Durga\_29,  
Cobra\_29, Karn\_28, Kwksand96\_28, Longacauda\_28, Brilliant\_29,  
CharlieGBrown\_28, Jiraiya\_28, PhatLouie\_29, Chuni\_28, Khan1\_29,  
Labeouficaum\_28, Pinkman\_28
- Track 29 : Hekos\_26, MiniBoss\_29, Happabalu\_29
- Track 30 : Inchworm\_29, CampRoach\_29
- Track 31 : Triad\_29, Lehmann\_29
- Track 32 : Mecca\_28
- Track 33 : Thunderbird\_28
- Track 34 : OSmaximus\_29, Solosis\_28, Fozzie\_28
- Track 35 : Pops\_29
- Track 36 : JDog\_28, MelsMeow\_28, HogWash\_28, Weher20\_29, Melc17\_29,  
ElvisPhasley\_29
- Track 37 : CheetO\_29, Nova1\_28
- Track 38 : PinheadLarry\_29
- Track 39 : GeneCoco\_29
- Track 40 : Dati\_29
- Track 41 : FleetyMac\_28

- Track 42 : Nathan\_29
- Track 43 : Apizium\_28
- Track 44 : Imvubu\_22
- Track 45 : Indlovu\_26
- Track 46 : LilMcDreamy\_25
- Track 47 : Hashim76\_32
- Track 48 : LittleMinkey\_33
- Track 49 : Zenteno07\_32
- Track 50 : BirdsNest\_31
- Track 51 : Lars\_30, Rosebush\_30, PrinceCharming\_30, Opia\_30, Glass\_30, Coffee\_30, LilSmirk\_30, Sabella\_30, MasterPo\_30, Eaglehorse\_30, LizLemon\_30, Arbiter\_30, Holeinone\_30, Hedgerow\_30, Allegro\_30, Blocker23\_30, Ares\_30, West99\_30, TA17A\_31, Lephleur\_30, FrenchFry\_30, Tinciduntolum\_31, Qyrzula\_28, Tres\_30, Brownie5\_30
- Track 52 : Kaleb\_30, Kheth\_30, Rhinoforte\_30
- Track 53 : Kolhan\_30, Calamitous\_30, Bananafish\_30, Boyle\_30, Phantasmagoria\_30, Faze9\_30
- Track 54 : ItsyBitsy1\_30
- Track 55 : Laurie\_30, Vic9\_00030
- Track 56 : Godines\_30
- Track 57 : Mulaychimus\_29, Glubnar\_30, Phayeta\_29, Obutu\_29, Mortcellus\_28, Casbah\_28
- Track 58 : Bernardo\_29
- Track 59 : Briakila\_29, ChaChing\_29
- Track 60 : Baloo\_29, OrangeOswald\_29, LestyG\_29, RagingRooster\_29, Neos5\_29, Abinghost\_29, Gadget\_30, Corofin\_29, SlippinJimmy\_29, Devonte\_29, Heathcliff\_29, Akoma\_29, Chandler\_29, Deenasa\_29, SynergyX\_29
- Track 61 : Athena\_30
- Track 62 : Kronus\_28, TinyTerror\_29, Rita1961\_29, Gervas\_29
- Track 63 : SwainyDoc\_29, Jackstina\_26, Phlyer\_29, Yahalom\_29, GlenHope\_30, Daisy\_29, Philly\_28, Compostia\_30, Chentzyk\_28
- Track 64 : Ben11\_28
- Track 65 : Olivio\_28, RomaT\_29, Audrey\_29, Kamiyu\_29
- Track 66 : Yinz\_29, Marlia\_29
- Track 67 : MmasiCarm\_29
- Track 68 : Phaedrus\_27, Tydolla\_29, Marley1013\_29, Morty007\_29, Shenandoah\_29
- Track 69 : Chalmers\_29
- Track 70 : HarveySr\_29
- Track 71 : Pipefish\_30
- Track 72 : Halfpint\_28
- Track 73 : Nozo\_29
- Track 74 : Hally898\_25, Antihero\_25, Ahwei\_25, Lambano\_25, Epah\_25, GinPorsche\_25, Poster\_25, Nanao\_25
- Track 75 : VioletZ\_26, BrownCNA\_27, Mithril\_26
- Track 76 : QueenPie\_25
- Track 77 : Magpie\_25, Frederick\_26, Apex\_26, BobbyK\_26
- Track 78 : Hangman\_26, Waleliano\_26
- Track 79 : Renkei\_25, LittleDigger\_25
- Track 80 : Stinger\_24
- Track 81 : Mudslide\_26
- Track 82 : RawrgerThat\_26, Fortunato\_26
- Track 83 : Xincheng\_25, JaguarMi\_26

- Track 84 : Fanaw\_25
- Track 85 : ChrisnMich\_25
- Track 86 : Heath\_25
- Track 87 : JAMaL\_26
- Track 88 : Cooper\_26
- Track 89 : Prince\_26
- Track 90 : AlanGrant\_27, Vincenzo\_27
- Track 91 : Austelle\_27
- Track 92 : Hydro\_26
- Track 93 : Lolalove\_26
- Track 94 : JoyceMaria\_26
- Track 95 : Nigel\_24
- Track 96 : Zemanar\_27
- Track 97 : Phelemich\_28, Reprobate\_28
- Track 98 : Rita130\_28, Reccee\_28
- Track 99 : Serendipitous\_27
- Track 100 : Shenyu\_28, StinkyVeggy\_30, KarasumaRum\_30, Nangang\_28
- Track 101 : Rich\_27
- Track 102 : Acadian\_28
- Track 103 : Donny\_28, Suigeneris\_28, SirJeffery\_28
- Track 104 : Bae\_27
- Track 105 : EastView9101\_27
- Track 106 : Mysterious\_28
- Track 107 : DigitDog\_28
- Track 108 : Nehemiah\_27
- Track 109 : KayaCho\_24
- Track 110 : 40BC\_024, 39HC\_024
- Track 111 : Hosp\_022
- Track 112 : Jolie1\_024
- Track 113 : ForDig\_24
- Track 114 : Saguaro\_29
- Track 115 : Thonko\_27
- Track 116 : Knocker\_30
- Track 117 : Rinkes\_31
- Track 118 : Funsized\_31
- Track 119 : Quesadilla\_29
- Track 120 : PenguinLover67\_30
- Track 121 : CRB2\_31
- Track 122 : Asis\_21, BayC\_21, BabyGotBac\_21, Salete\_21, Maih\_21, TP1604\_21
- Track 123 : Xkcd426\_27
- Track 124 : Abt2graduatex2\_22
- Track 125 : Mischief19\_30
- Track 126 : YDN12\_23
- Track 127 : RainyPolka\_22
- Track 128 : DonTron\_57
- Track 129 : Soos\_53, Sting\_56, KingstonB\_55, ColdSoup\_58, Amo99\_58, Stillion\_57, Jollymon\_57
- Track 130 : Purplicious\_56, Grumio\_57
- Track 131 : Clawz\_57
- Track 132 : Makar\_58
- Track 133 : CaiB\_27
- Track 134 : BiggityBass\_25
- Track 135 : AksarBAT\_25

- Track 136 : Sisko\_25
- Track 137 : CloverMinnie\_27, FelixTres\_27
- Track 138 : CharlottesWeb\_25
- Track 139 : Wooper\_27, TraderJ\_27, Yeshua\_27
- Track 140 : JellyBelly\_25, Mariokart\_25
- Track 141 : AnClar\_26
- Track 142 : Fresco\_25, Axumite\_25, Shatter\_25, Ligma\_25
- Track 143 : Blackpen\_27, MakoManhole\_27
- Track 144 : Yago84\_25
- Track 145 : AnarQue\_27
- Track 146 : LittleMunchkin\_27
- Track 147 : BobRoss2024\_24
- Track 148 : Sour\_29
- Track 149 : NHagos\_25
- Track 150 : MossRose\_27
- Track 151 : Evaa\_26
- Track 152 : Coldpizza\_28
- Track 153 : RomansRevenge\_28
- Track 154 : Boise\_27
- Track 155 : GodPhather\_23
- Track 156 : Argie\_23
- Track 157 : D12\_22, Megabear\_22, PR\_22
- Track 158 : Jeon\_22
- Track 159 : Taptic\_22
- Track 160 : Cepens\_22
- Track 161 : Pine5\_28
- Track 162 : TPA2\_34
- Track 163 : TurkishDelight\_29
- Track 164 : Tonitrus\_44

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

The start number called the most often in the published annotations is 25, it was called in 339 of the 506 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 39HC\_024, 40BC\_024, ABU\_29, AbsoluteMadLad\_28, Acadian\_28, Adriana\_29, Aelin\_28, Ahwei\_25, AlanGrant\_27, Aleja\_29, AltPhacts\_29, Altwerkus\_28, Anderson\_29, Andre\_29, AngelCake\_29, Antihero\_25, Antonia\_28, Aonishiki\_29, Apex\_26, Apizium\_28, Ashraf\_28, Austelle\_27, Badfish\_29, Bae\_27, Banjo\_28, Basato\_30, BatteryCK\_28, Beaglebox\_28, BirdsNest\_31, Bishoperium\_28, BlackStallion\_29, BlacksBerry\_28, BlueHusk\_29, Bluephacebaby\_28, BobbyK\_26, Boehler\_29, BoogieWoogie\_28, Brilliant\_29, BrownCNA\_27, Buckeye\_29, Burr\_28, CRB2\_31, CamL\_29, CampRoach\_29, Cannibal\_29, Carthage\_27, Caspiboi\_28, Chaelin\_29, Chah\_30, Charles1\_29, CharlieGBrown\_28, CheetO\_29, Cher\_28, Childish\_28, Chipette\_30, Chorkpop\_29, ChrisnMich\_25, Chuni\_28, Chunky\_29, Chute\_28, Cobra\_29, Colbert\_29, Coletti\_29, Cooper\_26, Cornbread\_28, Cornobble\_28, Cosmolli16\_28, Craff\_29, Crownjwl\_29, DaddyDaniels\_29, Daffy\_29, Daka\_29, Dati\_29, DelRivs\_28, Derpp\_28, Dice\_28, DigitDog\_28, Dingo\_29, Dione\_28, DirtJuice\_29, Doddsville\_29, DoesntMatter\_29, DoIOn\_30,

DonSanchon\_28, Donny\_28, DuchessDung\_27, Duggie\_28, Durga\_29, EastView9101\_27, ElvisPhasley\_29, EmGer13\_28, Emiris\_29, EmpTee\_29, Epah\_25, Eremos\_29, Etaye\_29, Eugenia\_29, Fanaw\_25, Fang\_29, Flake\_29, FleetyMac\_28, FluffyNinja\_29, ForDig\_24, Fortunato\_26, Fozzie\_28, Frankicide\_29, Frederick\_26, FremontTroll\_29, Freya\_28, FriarPreacher\_29, Fringe\_29, FugateOSU\_28, Funsized\_31, Gareth\_28, GeneCoco\_29, GinPorsche\_25, Giraffe\_29, Gophee\_29, Grand2040\_28, GreenChile\_29, Gwennie1\_29, Gwilliam\_29, Gyarad\_0029, HSavage\_29, Haimas\_29, Haleema\_28, Hally898\_25, Hamish\_29, Hangman\_26, Happabalu\_29, Hartsy\_29, Harvey\_29, Hashim76\_32, Heath\_25, Hekos\_26, Held\_29, HenryJackson\_28, Hertubise\_29, Hetaeria\_29, HighStump\_28, Hocus\_28, HogWash\_28, Horchata\_29, Hosp\_022, Hydro\_26, ImtiyazSitla\_28, Imvubu\_22, Inchworm\_29, Indlovu\_26, Inverness\_29, Iridessa\_29, Iridoclysis\_29, IsaacEli\_29, JAMaL\_26, JDog\_28, JacAttac\_29, JaguarMi\_26, JakeO\_28, JangoPhett\_29, Jesabah\_29, Jillium\_28, Jiminy\_28, Jiraiya\_28, Jolie1\_024, JoyceMaria\_26, KLucky39\_29, Kahve\_28, Kailash\_29, KarasumaRum\_30, Karn\_28, Katniss\_29, KayaCho\_24, Keitherie\_29, Khan1\_29, Kikipoo\_29, Kimbrough\_29, KingTut\_20, KingVeVeVe\_29, KlimbOn\_29, Kloppinator\_29, Knocker\_30, Kwadwo\_28, Kwksand96\_28, Labeouficaum\_28, Lambano\_25, Larson\_30, LasagnaCat\_29, Lasso\_29, LeeLot\_29, Lego3393\_29, Legolas\_28, Lehmann\_29, LeiMonet\_29, LemonSlice\_29, LilMcDreamy\_25, LittleDigger\_25, LittleMinkey\_33, Lolalove\_26, Longacauda\_28, Lopsy\_28, LostAndPhound\_28, LuckyMarjie\_28, Lulumae\_28, Lulwa\_29, Lumine\_28, MRabcd\_28, Mag7\_28, Magic8\_29, Magpie\_25, Mana\_28, Manad\_28, Maru\_28, Maskar\_28, Matalotodo\_29, Mcshane\_28, Mecca\_28, Megamind20\_29, Megatron\_29, Melc17\_29, MelsMeow\_28, Mesh1\_29, Mesmerelda\_28, MichaelPhcott\_28, Mikota\_29, MiniBoss\_29, MitKao\_29, Mithril\_26, Morgushi\_29, Morty\_29, Mosaic\_28, MrPhizzler\_29, Mudslide\_26, Mulan\_28, Murdoc\_29, Mutante\_28, Nacho\_0029, Nanao\_25, Nangang\_28, Nathan\_29, Newman\_29, NiaNia\_30, Nicole21\_29, Nigel\_24, Nova1\_28, Numberten\_29, Nyala\_28, OSmaximus\_29, Olak\_28, Oline\_28, Olive\_29, OliverWalter\_29, Omniscient\_29, OneBrain\_29, Oosterbaan\_29, Orfeu\_28, Orion\_29, Orwigg\_28, PG1\_29, Pacifista\_28, PallasAthena\_29, PenguinLover67\_30, Phamished\_29, Phareon\_29, PhatCats2014\_29, PhatLouie\_29, PhenghisKhan\_28, Pherdinand\_29, Phergie\_28, Phipps\_29, Phleuron\_28, PhrankReynolds\_28, PhrodoBaggins\_28, Phunky\_29, Piglet\_0028, PinheadLarry\_29, Pinkman\_28, Pipsqueak\_29, Placalicious\_28, Plata\_28, Plmatters\_29, Podrick\_29, Pops\_29, Poster\_25, Potter\_28, Prickles\_29, Prince\_26, ProfessorX\_29, Puhltonio\_29, QueenBeane\_29, QueenPie\_25, Quesadilla\_29, Quisquillae\_29, RawrgerThat\_26, Reccee\_28, RedMaple\_28, RedRaider89\_30, Renkei\_25, Rich\_27, Ricotta\_28, Riggan\_29, Rimu\_29, Rinkes\_31, Rita130\_28, Riverton\_29, Robyn\_28, Roliet\_29, Roscoe\_30, Roy17\_29, SDcharge11\_29, Saguario\_29, SallyH\_29, Samaymay\_29, SassyCat97\_28, Schadenfreude\_28, Schueller\_28, Scoot17C\_29, Scrick\_29, Selr12\_29, Serendipitous\_27, Serendipity\_29, Serpentine\_0029, ShadowBud\_29, Sheila\_29, Shenyu\_28, ShiVal\_29, Sigman\_29, SilverBell\_29, Simielle\_28, SirBeauregard\_29, SirJeffery\_28, Skippy\_29, Slatt\_29, Soile\_29, Solosis\_28, Sophia\_28, Soto\_29, Spartan300\_29, Squid\_29, Squiggle\_29, Stinger\_24, StinkyVeggy\_30, Struggle\_28, Suffolk\_29, Suigeneris\_28, Surely\_29, Swiphy\_29, Swish\_29, TallGrassMM\_29, Taraxa\_28, Telesworld\_28, Thora\_29, ThreeOh3D2\_29, Thunderbird\_28, Timmi\_28, TomBombadil\_29, Tomlarah\_29, Toni\_28, TooFast2Furius\_30, Tooj\_29, Triad\_29, True\_28, Trypo\_29, TyrionL\_28, UAch1\_29, UncleHowie\_29, Usavi\_29, Vaishali24\_28, Valjean\_29, Vaticameos\_29, Veritas\_28, Vincenzo\_27, VioletZ\_26, Virapocalypse\_29, Virgeve\_28, Vista\_29, Vivaldi\_29, Vortex\_29, Waleliano\_26, Wallhey\_28, Waterdiva\_29, Weher20\_29, Windsor\_28, Xavier\_28, Xincheng\_25, Yoshand\_29, YouGoGlencoco\_29, Zaider\_30, Zelda\_29,

Zemanar\_27, Zenteno07\_32, Zonia\_29,

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

- 

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

- AWGoat\_30, Abinghost\_29, Abt2graduatex2\_22, Akoma\_29, AksarBAT\_25, Allegro\_30, Amo99\_58, AnClar\_26, AnarQue\_27, Arbiter\_30, Ares\_30, Argie\_23, Asis\_21, Athena\_30, Audrey\_29, Axumite\_25, BabyGotBac\_21, Baloo\_29, Bananafish\_30, BayC\_21, Beagle\_38, Ben11\_28, Bernardo\_29, BetaFish\_37, BiggityBass\_25, Blackpen\_27, Blocker23\_30, BobRoss2024\_24, Boise\_27, Boyle\_30, Briakila\_29, Brownie5\_30, BruhMoment\_32, CaiB\_27, Calamitous\_30, Casbah\_28, Caterpie\_26, Causa\_34, Cepens\_22, ChaChing\_29, Chalmers\_29, Chandler\_29, CharlottesWeb\_25, Chentzyk\_28, Clawz\_57, CloverMinnie\_27, Coffee\_30, ColdSoup\_58, Coldpizza\_28, Compostia\_30, Corofin\_29, D12\_22, Daisy\_29, Deenasa\_29, Devonte\_29, DogYard\_37, DonTron\_57, Dori\_25, Eaglehorse\_30, Evaa\_26, Faze9\_30, FelixTres\_27, Forrestell\_34, FrenchFry\_30, Fresco\_25, Gadget\_30, Gervas\_29, Glass\_30, GlenHope\_30, Glubnar\_30, GodPhather\_23, Godines\_30, Grumio\_57, Halfpint\_28, HarveySr\_29, Heathcliff\_29, Hedgerow\_30, Hive\_37, Holeinone\_30, ItsyBitsy1\_30, Jackstina\_26, JellyBelly\_25, Jeon\_22, JohnLord\_27, Jollymon\_57, Kaleb\_30, Kamiyu\_29, Kheth\_30, KingstonB\_55, Kolhan\_30, Kronus\_28, Kubulix\_38, Lars\_30, Laurie\_30, Lephleur\_30, LestyG\_29, Ligma\_25, LilSmirk\_30, LittleMunchkin\_27, LizLemon\_30, Maih\_21, Makar\_58, MakoManhole\_27, Mao1\_24, Mariokart\_25, Marley1013\_29, Marlia\_29, Mask\_25, MasterPo\_30, Megabear\_22, MellowYellow\_34, Mischief19\_30, MmasiCarm\_29, Mortcellus\_28, Morty007\_29, MossRose\_27, Mulaychimus\_29, Mysterious\_28, NHagos\_25, Nehemiah\_27, Neos5\_29, Nikan\_32, Nozo\_29, NyleyClemson\_32, Obutu\_29, Odyssey395\_39, Olivio\_28, Ollypop\_35, Opia\_30, OrangeOswald\_29, PR\_22, Phaedrus\_27, Phantasmagoria\_30, Phayeta\_29, Phelemich\_28, Philly\_28, Phlyer\_29, PhuzzTulsa\_35, Pine5\_28, Pipefish\_30, Pointis\_37, Popstraw\_35, PrinceCharming\_30, Pureglobe5\_39, Purplicious\_56, Qyrzula\_28, RIPWilbur\_35, RagingRooster\_29, RainyPolka\_22, Ranunculus\_31, RazzB\_33, Ren19\_30, Reprobate\_28, Rhinoforte\_30, Rita1961\_29, Rizwana\_30, RomaT\_29, RomansRevenge\_28, Rosebush\_30, Sabella\_30, Salete\_21, Sejanus\_25, Shatter\_25, Shenandoah\_29, SilentRX\_32, Sisko\_25, SlippinJimmy\_29, Soos\_53, Sour\_29, StAugustine\_32, Stillion\_57, Sting\_56, SwainyDoc\_29, SynergyX\_29, TA17A\_31, TP1604\_21, TPA2\_34, Tank\_32, Taptic\_22, Thonko\_27, Tinciduntolum\_31, TinyTerror\_29, Tonitrus\_44, TraderJ\_27, Tres\_30, TurkishDelight\_29, Tydolla\_29, Vic9\_00030, West99\_30, Wilde\_32, Wooper\_27, Xkcd426\_27, YDN12\_23, Yago84\_25, Yahalom\_29, Yeshua\_27, Yinz\_29,

### Summary by start number:

Start 9:

- Found in 23 of 588 ( 3.9% ) of genes in pham
- Manual Annotations of this start: 19 of 506
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AksarBAT\_25 (DR), AnClar\_26 (DR), AnarQue\_27 (DR), Axumite\_25 (DR), BiggityBass\_25 (DR), Blackpen\_27 (DR), BobRoss2024\_24 (DR), CaiB\_27 (DR), CloverMinnie\_27 (DR), FelixTres\_27 (DR), Fresco\_25 (DR), Ligma\_25 (DR), LittleMunchkin\_27 (DR), MakoManhole\_27 (DR), MossRose\_27 (DR), NHagos\_25 (DR), Shatter\_25 (DR), Sisko\_25 (DR), Sour\_29 (DR), TraderJ\_27 (DR), Wooper\_27 (DR), Yago84\_25 (DR), Yeshua\_27 (DR),

Start 10:

- Found in 6 of 588 ( 1.0% ) of genes in pham
- Manual Annotations of this start: 3 of 506
- Called 83.3% of time when present
- Phage (with cluster) where this start called: CharlottesWeb\_25 (DR), Coldpizza\_28 (DR), Evaa\_26 (DR), JellyBelly\_25 (DR), Mariokart\_25 (DR),

Start 19:

- Found in 2 of 588 ( 0.3% ) of genes in pham
- Manual Annotations of this start: 1 of 506
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Bernardo\_29 (B3),

Start 25:

- Found in 391 of 588 ( 66.5% ) of genes in pham
- Manual Annotations of this start: 339 of 506
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 39HC\_024 (B6), 40BC\_024 (B6), ABU\_29 (B1), AbsoluteMadLad\_28 (B1), Acadian\_28 (B5), Adriana\_29 (B1), Aelin\_28 (B1), Ahwei\_25 (B4), AlanGrant\_27 (B4), Aleia\_29 (B1), AltPhacts\_29 (B1), Altwerkus\_28 (B1), Anderson\_29 (B1), Andre\_29 (B1), AngelCake\_29 (B1), Antihero\_25 (B4), Antonia\_28 (B1), Aonishiki\_29 (B1), Apex\_26 (B4), Apizium\_28 (B1), Ashraf\_28 (B1), Austelle\_27 (B4), Badfish\_29 (B1), Bae\_27 (B5), Banjo\_28 (B1), Basato\_30 (B1), BatteryCK\_28 (B1), Beaglebox\_28 (B1), BirdsNest\_31 (B13), Bishoperium\_28 (B1), BlackStallion\_29 (B1), BlacksBerry\_28 (B1), BlueHusk\_29 (B1), Bluephacebaby\_28 (B1), BobbyK\_26 (B4), Boehler\_29 (B1), BoogieWoogie\_28 (B1), Brilliant\_29 (B1), BrownCNA\_27 (B4), Buckeye\_29 (B1), Burr\_28 (B1), CRB2\_31 (B9), CamL\_29 (B1), CampRoach\_29 (B1), Cannibal\_29 (B1), Carthage\_27 (B1), Caspi\_28 (B1), Chaelin\_29 (B1), Chah\_30 (B1), Charles1\_29 (B1), CharlieGBrown\_28 (B1), CheetO\_29 (B1), Cher\_28 (B1), Childish\_28 (B1), Chipette\_30 (B1), Chorkpop\_29 (B1), ChrisnMich\_25 (B4), Chuni\_28 (B1), Chunky\_29 (B1), Chute\_28 (B1), Cobra\_29 (B1), Colbert\_29 (B1), Coletti\_29 (B1), Cooper\_26 (B4), Cornbread\_28 (B1), Cornobble\_28 (B1), Cosmolli16\_28 (B1), Craff\_29 (B1), Crownjwl\_29 (B1), DaddyDaniels\_29 (B1), Daffy\_29 (B1), Daka\_29 (B1), Dati\_29 (B1), DelRivs\_28 (B1), Derpp\_28 (B1), Dice\_28 (B1), DigitDog\_28 (B5), Dingo\_29 (B1), Dione\_28 (B1), DirtJuice\_29 (B1), Doddsville\_29 (B1), DoesntMatter\_29 (B1), DoOn\_30 (B1), DonSancho\_28 (B1), Donny\_28 (B5), DuchessDung\_27 (B1), Duggie\_28 (B1), Durga\_29 (B1), EastView9101\_27 (B5), ElvisPhasley\_29 (B1), EmGer13\_28 (B1), Emiris\_29 (B1), EmpTee\_29 (B1), Epah\_25 (B4), Eremos\_29 (B1), Etaye\_29 (B1), Eugenia\_29 (B1), Fanaw\_25 (B4), Fang\_29 (B1), Flake\_29 (B1), FleetyMac\_28 (B1), FluffyNinja\_29 (B1), ForDig\_24 (B6), Fortunato\_26 (B4), Fozzie\_28 (B1), Frankicide\_29 (B1), Frederick\_26 (B4), FremontTroll\_29 (B1), Freya\_28 (B1), FriarPreacher\_29 (B1), Fringe\_29 (B1), FugateOSU\_28 (B1), Funsized\_31 (B9), Gareth\_28 (B1), GeneCoco\_29 (B1), GinPorsche\_25 (B4), Giraffe\_29 (B1), Gophe\_29 (B1), Grand2040\_28 (B1), GreenChile\_29 (B1), Gwennie1\_29 (B1), Gwilliam\_29 (B1), Gyrad\_0029 (B1), HSavage\_29 (B1), Haimas\_29 (B1), Haleema\_28 (B1), Hally898\_25 (B4), Hamish\_29 (B1), Hangman\_26 (B4), Happabalu\_29 (B1), Hartsy\_29 (B1), Harvey\_29 (B1), Hashim76\_32 (B13), Heath\_25 (B4), Hekos\_26 (B1), Held\_29 (B1), HenryJackson\_28 (B1), Hertubise\_29 (B1), Hetaeria\_29 (B1), HighStump\_28 (B1), Hocus\_28 (B1), HogWash\_28 (B1), Horchata\_29 (B1), Hosp\_022 (B6), Hydro\_26 (B4), ImtiyazSitla\_28 (B1), Imvubu\_22 (B10), Inchworm\_29 (B1), Indlovu\_26 (B11),

Inverness\_29 (B1), Iridessa\_29 (B1), Iridoclysis\_29 (B1), IsaacEli\_29 (B1), JAMaL\_26 (B4), JDog\_28 (B1), JacAttac\_29 (B1), JaguarMi\_26 (B4), JakeO\_28 (B1), JangoPhett\_29 (B1), Jesabah\_29 (B1), Jillium\_28 (B1), Jiminy\_28 (B1), Jiraiya\_28 (B1), Jolie1\_024 (B6), JoyceMaria\_26 (B4), KLucky39\_29 (B1), Kahve\_28 (B1), Kailash\_29 (B1), KarasumaRum\_30 (B5), Karn\_28 (B1), Katniss\_29 (B1), KayaCho\_24 (B6), Keitherie\_29 (B1), Khan1\_29 (B1), Kikipoo\_29 (B1), Kimbrough\_29 (B1), KingTut\_20 (B1), KingVeVeVe\_29 (B1), KlimbOn\_29 (B1), Kloppinator\_29 (B1), Knocker\_30 (B9), Kwadwo\_28 (B1), Kwksand96\_28 (B1), Labeouficaum\_28 (B1), Lambano\_25 (B4), Larson\_30 (B1), LasagnaCat\_29 (B1), Lasso\_29 (B1), LeeLot\_29 (B1), Lego3393\_29 (B1), Legolas\_28 (B1), Lehmann\_29 (B1), LeiMonet\_29 (B1), LemonSlice\_29 (B1), LilMcDreamy\_25 (B12), LittleDigger\_25 (B4), LittleMinkey\_33 (B13), Lolalove\_26 (B4), Longacauda\_28 (B1), Lopsy\_28 (B1), LostAndPhound\_28 (B1), LuckyMarjie\_28 (B1), Lulumae\_28 (B1), Lulwa\_29 (B1), Lumine\_28 (B1), MRabcd\_28 (B1), Mag7\_28 (B1), Magic8\_29 (B1), Magpie\_25 (B4), Mana\_28 (B1), Manad\_28 (B1), Maru\_28 (B1), Maskar\_28 (B1), Matalotodo\_29 (B1), Mcshane\_28 (B1), Mecca\_28 (B1), Megamind20\_29 (B1), Megatron\_29 (B1), Melc17\_29 (B1), MelsMeow\_28 (B1), Mesh1\_29 (B1), Mesmerelda\_28 (B1), MichaelPhcott\_28 (B1), Mikota\_29 (B1), MiniBoss\_29 (B1), MitKao\_29 (B1), Mithril\_26 (B4), Morgushi\_29 (B1), Morty\_29 (B1), Mosaic\_28 (B1), MrPhizzler\_29 (B1), Mudslide\_26 (B4), Mulan\_28 (B1), Murdoc\_29 (B1), Mutante\_28 (B1), Nacho\_0029 (B1), Nanao\_25 (B4), Nangang\_28 (B5), Nathan\_29 (B1), Newman\_29 (B1), NiaNia\_30 (B1), Nicole21\_29 (B1), Nigel\_24 (B4), Nova1\_28 (B1), Numberten\_29 (B1), Nyala\_28 (B1), OSmaximus\_29 (B1), Olak\_28 (B1), Oline\_28 (B1), Olive\_29 (B1), OliverWalter\_29 (B1), Omniscient\_29 (B1), OneBrain\_29 (B1), Oosterbaan\_29 (B1), Orfeu\_28 (B1), Orion\_29 (B1), Orwigg\_28 (B1), PG1\_29 (B1), Pacifista\_28 (B1), PallasAthena\_29 (B1), PenguinLover67\_30 (B9), Phamished\_29 (B1), Phareon\_29 (B1), PhatCats2014\_29 (B1), PhatLouie\_29 (B1), PhenghisKhan\_28 (B1), Pherdinand\_29 (B1), Phergie\_28 (B1), Phipps\_29 (B1), Phleuron\_28 (B1), PhrankReynolds\_28 (B1), PhrodoBaggins\_28 (B1), Phunky\_29 (B1), Piglet\_0028 (B1), PinheadLarry\_29 (B1), Pinkman\_28 (B1), Pipsqueak\_29 (B1), Placalicious\_28 (B1), Plata\_28 (B1), Plmatters\_29 (B1), Podrick\_29 (B1), Pops\_29 (B1), Poster\_25 (B4), Potter\_28 (B1), Prickles\_29 (B1), Prince\_26 (B4), ProfessorX\_29 (B1), Puhltonio\_29 (B1), QueenBeane\_29 (B1), QueenPie\_25 (B4), Quesadilla\_29 (B9), Quisquilliae\_29 (B1), RawrgerThat\_26 (B4), Reccee\_28 (B5), RedMaple\_28 (B1), RedRaider89\_30 (B1), Renkei\_25 (B4), Rich\_27 (B5), Ricotta\_28 (B1), Riggan\_29 (B1), Rimu\_29 (B1), Rinkes\_31 (B9), Rita130\_28 (B5), Riverton\_29 (B1), Robyn\_28 (B1), Roliet\_29 (B1), Roscoe\_30 (B1), Roy17\_29 (B1), SDcharge11\_29 (B1), Saguario\_29 (B7), SallyH\_29 (B1), Samaymay\_29 (B1), SassyCat97\_28 (B1), Schadenfreude\_28 (B1), Schueller\_28 (B1), Scoot17C\_29 (B1), Scrick\_29 (B1), Selr12\_29 (B1), Serendipitous\_27 (B5), Serendipity\_29 (B1), Serpentine\_0029 (B1), ShadowBud\_29 (B1), Sheila\_29 (B1), Shenyu\_28 (B5), ShiVal\_29 (B1), Sigman\_29 (B1), SilverBell\_29 (B1), Simielle\_28 (B1), SirBeauregard\_29 (B1), SirJeffery\_28 (B5), Skippy\_29 (B1), Slatt\_29 (B1), Soile\_29 (B1), Solosis\_28 (B1), Sophia\_28 (B1), Soto\_29 (B1), Spartan300\_29 (B1), Squid\_29 (B1), Squiggle\_29 (B1), Stinger\_24 (B4), StinkyVeggy\_30 (B5), Struggle\_28 (B1), Suffolk\_29 (B1), Suigeneris\_28 (B5), Surely\_29 (B1), Swiphy\_29 (B1), Swish\_29 (B1), TallGrassMM\_29 (B1), Taraxa\_28 (B1), Telesworld\_28 (B1), Thora\_29 (B1), ThreeOh3D2\_29 (B1), Thunderbird\_28 (B1), Timmi\_28 (B1), TomBombadil\_29 (B1), Tomlarah\_29 (B1), Toni\_28 (B1), TooFast2Furius\_30 (B1), Tooj\_29 (B1), Triad\_29 (B1), True\_28 (B1), Trypo\_29 (B1), TyrionL\_28 (B1), UAch1\_29 (B1), UncleHowie\_29 (B1), Usavi\_29 (B1), Vaishali24\_28 (B1), Valjean\_29 (B1), Vaticameos\_29 (B1), Veritas\_28 (B1), Vincenzo\_27 (B4), VioletZ\_26 (B4), Virapocalypse\_29 (B1), Virgeve\_28 (B1), Vista\_29 (B1), Vivaldi\_29 (B1), Vortex\_29 (B1), Waleliano\_26 (B4),

Wallhey\_28 (B1), Waterdiva\_29 (B1), Weher20\_29 (B1), Windsor\_28 (B1), Xavier\_28 (B1), Xincheng\_25 (B4), Yoshand\_29 (B1), YouGoGlencoco\_29 (B1), Zaider\_30 (B1), Zelda\_29 (B1), Zemanar\_27 (B4), Zenteno07\_32 (B13), Zonia\_29 (B1),

#### Start 26:

- Found in 122 of 588 ( 20.7% ) of genes in pham
- Manual Annotations of this start: 105 of 506
- Called 98.4% of time when present
- Phage (with cluster) where this start called: Abinghost\_29 (B3), Akoma\_29 (B3), Allegro\_30 (B2), Amo99\_58 (CP), Arbitrator\_30 (B2), Ares\_30 (B2), Athena\_30 (B3), Audrey\_29 (B3), Baloo\_29 (B3), Bananafish\_30 (B2), Ben11\_28 (B3), Blocker23\_30 (B2), Boyle\_30 (B2), Briakila\_29 (B3), Brownie5\_30 (B2), Calamitous\_30 (B2), Casbah\_28 (B3), Caterpie\_26 (AD), Causa\_34 (AI), ChaChing\_29 (B3), Chalmers\_29 (B3), Chandler\_29 (B3), Chentzyk\_28 (B3), Clawz\_57 (CP), Coffee\_30 (B2), ColdSoup\_58 (CP), Compostia\_30 (B3), Corofin\_29 (B3), Daisy\_29 (B3), Deenasa\_29 (B3), Devonte\_29 (B3), DonTron\_57 (CP), Dori\_25 (AD), Eaglehorse\_30 (B2), Faze9\_30 (B2), FrenchFry\_30 (B2), Gadjet\_30 (B3), Gervas\_29 (B3), Glass\_30 (B2), GlenHope\_30 (B3), Glubnar\_30 (B3), Godines\_30 (B2), Grumio\_57 (CP), Halfpint\_28 (B3), HarveySr\_29 (B3), Heathcliff\_29 (B3), Hedgerow\_30 (B2), Holeinone\_30 (B2), ItsyBitsy1\_30 (B2), Jackstina\_26 (B3), Jollymon\_57 (CP), Kaleb\_30 (B2), Kamiyu\_29 (B3), Kheth\_30 (B2), KingstonB\_55 (CP), Kolhan\_30 (B2), Kronus\_28 (B3), Lars\_30 (B2), Laurie\_30 (B2), Lephleur\_30 (B2), LestyG\_29 (B3), LilSmirk\_30 (B2), LizLemon\_30 (B2), Makar\_58 (CP), Mao1\_24 (AD), Marley1013\_29 (B3), Marlia\_29 (B3), Mask\_25 (AD), MasterPo\_30 (B2), MmasiCarm\_29 (B3), Mortcellus\_28 (B3), Morty007\_29 (B3), Mulaychimus\_29 (B3), Mysterious\_28 (B5), Nehemiah\_27 (B5), Neos5\_29 (B3), Nozo\_29 (B3), Obutu\_29 (B3), Olivio\_28 (B3), Opia\_30 (B2), OrangeOswald\_29 (B3), Phaedrus\_27 (B3), Phantasmagoria\_30 (B2), Phayeta\_29 (B3), Phelemich\_28 (B5), Philly\_28 (B3), Phlyer\_29 (B3), Pine5\_28 (singleton), Pipefish\_30 (B3), PrinceCharming\_30 (B2), Purplicious\_56 (CP), Qyrzula\_28 (B2), RagingRooster\_29 (B3), Reprobate\_28 (B5), Rhinoforte\_30 (B2), Rita1961\_29 (B3), RomaT\_29 (B3), Rosebush\_30 (B2), Sabella\_30 (B2), Sejanus\_25 (AD), Shenandoah\_29 (B3), SlippinJimmy\_29 (B3), Soos\_53 (CP), StAugustine\_32 (AI), Stillion\_57 (CP), Sting\_56 (CP), SwainyDoc\_29 (B3), SynergyX\_29 (B3), TA17A\_31 (B2), Thonko\_27 (B8), Tinciduntolum\_31 (B2), TinyTerror\_29 (B3), Tonitrus\_44 (singleton), Tres\_30 (B2), TurkishDelight\_29 (singleton), Tydolla\_29 (B3), Vic9\_00030 (B2), West99\_30 (B2), Yahalom\_29 (B3), Yinz\_29 (B3),

#### Start 27:

- Found in 65 of 588 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 38 of 506
- Called 69.2% of time when present
- Phage (with cluster) where this start called: AWGoat\_30 (AP4), Abt2graduatex2\_22 (BG), Argie\_23 (W), Asis\_21 (BG), BabyGotBac\_21 (BG), BayC\_21 (BG), Beagle\_38 (AP2), BetaFish\_37 (AP2), Boise\_27 (FT), BruhMoment\_32 (AP3), Cepens\_22 (W), D12\_22 (W), DogYard\_37 (AP2), Forrestell\_34 (AP2), GodPhather\_23 (W), Hive\_37 (AP2), Jeon\_22 (W), Kubulix\_38 (AP2), Maih\_21 (BG), Megabear\_22 (W), MellowYellow\_34 (AP2), Mischief19\_30 (BG), Nikan\_32 (AP2), NyleyClemson\_32 (AP2), Odyssey395\_39 (AP2), Ollypop\_35 (AP2), PR\_22 (W), PhuzzTulsa\_35 (AP2), Pointis\_37 (AP2), Popstraw\_35 (AP2), Pureglobe5\_39 (AP2), RIPWilbur\_35 (AP2), RainyPolka\_22 (BG), Ranunculus\_31 (AP), RazzB\_33 (AP2), Ren19\_30 (AP2), Rizwana\_30 (AP1), Salete\_21 (BG), SilentRX\_32 (AP4), TP1604\_21 (BG), Tank\_32 (AP1), Taptic\_22 (W), Wilde\_32 (AP1), Xkcd426\_27 (BG), YDN12\_23 (BG),

Start 28:

- Found in 15 of 588 ( 2.6% ) of genes in pham
- Manual Annotations of this start: 1 of 506
- Called 6.7% of time when present
- Phage (with cluster) where this start called: RomansRevenge\_28 (FT),

Start 32:

- Found in 110 of 588 ( 18.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 0.9% of time when present
- Phage (with cluster) where this start called: JohnLord\_27 (AD),

Start 110:

- Found in 509 of 588 ( 86.6% ) of genes in pham
- No Manual Annotations of this start.
- Called 0.2% of time when present
- Phage (with cluster) where this start called: TPA2\_34 (singleton),

**Summary by clusters:**

There are 26 clusters represented in this pham: singleton, BG, FT, AP2, AP3, AP1, AP4, B12, B13, B10, B11, DR, AD, AI, AP, W, CP, B4, B5, B6, B7, B1, B2, B3, B8, B9,

Info for manual annotations of cluster AD:

- Start number 26 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster AI:

- Start number 26 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster AP:

- Start number 27 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:

- Start number 27 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 27 was manually annotated 12 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 27 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 27 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster B1:

- Start number 25 was manually annotated 288 times for cluster B1.

Info for manual annotations of cluster B10:

- Start number 25 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 25 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 25 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 25 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B2:

- Start number 26 was manually annotated 37 times for cluster B2.

Info for manual annotations of cluster B3:

- Start number 19 was manually annotated 1 time for cluster B3.
- Start number 26 was manually annotated 50 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 25 was manually annotated 28 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 25 was manually annotated 8 times for cluster B5.
- Start number 26 was manually annotated 3 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 25 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:

- Start number 25 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 26 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 25 was manually annotated 6 times for cluster B9.

Info for manual annotations of cluster BG:

- Start number 27 was manually annotated 11 times for cluster BG.

Info for manual annotations of cluster CP:

- Start number 26 was manually annotated 6 times for cluster CP.

Info for manual annotations of cluster DR:

- Start number 9 was manually annotated 19 times for cluster DR.
- Start number 10 was manually annotated 3 times for cluster DR.

Info for manual annotations of cluster FT:

- Start number 28 was manually annotated 1 time for cluster FT.

Info for manual annotations of cluster W:

- Start number 27 was manually annotated 8 times for cluster W.

***Gene Information:***

Gene: 39HC\_024 Start: 25054, Stop: 26487, Start Num: 25

Candidate Starts for 39HC\_024:

(Start: 25 @25054 has 339 MA's), (35, 25111), (38, 25129), (48, 25171), (74, 25297), (79, 25336), (91, 25396), (101, 25450), (109, 25483), (110, 25486), (121, 25537), (136, 25609), (156, 25705), (166, 25768), (167, 25771), (171, 25792), (174, 25804), (183, 25840), (202, 25909), (207, 25930), (219, 25990), (228, 26038), (235, 26071), (236, 26077), (244, 26107), (254, 26149), (279, 26257), (292, 26317), (303, 26353), (304, 26356), (315, 26422),

Gene: 40BC\_024 Start: 25054, Stop: 26487, Start Num: 25

Candidate Starts for 40BC\_024:

(Start: 25 @25054 has 339 MA's), (35, 25111), (38, 25129), (48, 25171), (74, 25297), (79, 25336), (91, 25396), (101, 25450), (109, 25483), (110, 25486), (121, 25537), (136, 25609), (156, 25705), (166, 25768), (167, 25771), (171, 25792), (174, 25804), (183, 25840), (202, 25909), (207, 25930), (219, 25990), (228, 26038), (235, 26071), (236, 26077), (244, 26107), (254, 26149), (279, 26257), (292, 26317), (303, 26353), (304, 26356), (315, 26422),

Gene: ABU\_29 Start: 26217, Stop: 27650, Start Num: 25

Candidate Starts for ABU\_29:

(Start: 25 @26217 has 339 MA's), (35, 26274), (40, 26298), (45, 26322), (61, 26397), (101, 26613), (108, 26640), (110, 26649), (114, 26670), (119, 26691), (121, 26700), (133, 26763), (153, 26856), (163, 26913), (166, 26931), (198, 27063), (210, 27111), (219, 27153), (220, 27159), (221, 27162), (228, 27201), (235, 27234), (236, 27240), (239, 27249), (242, 27264), (253, 27309), (277, 27414), (287, 27450), (302, 27510), (304, 27519), (316, 27588),

Gene: AWGoat\_30 Start: 26185, Stop: 27399, Start Num: 27

Candidate Starts for AWGoat\_30:

(Start: 27 @26185 has 38 MA's), (80, 26401), (94, 26476), (95, 26479), (112, 26551), (133, 26641), (138, 26662), (143, 26677), (165, 26773), (167, 26785), (233, 27016), (280, 27190), (281, 27193), (284, 27208), (288, 27220), (290, 27226), (294, 27247), (308, 27295), (311, 27307), (313, 27331), (317, 27343), (318, 27346), (324, 27370),

Gene: Abinghost\_29 Start: 26146, Stop: 27576, Start Num: 26

Candidate Starts for Abinghost\_29:

(Start: 26 @26146 has 105 MA's), (35, 26203), (40, 26227), (41, 26236), (61, 26323), (89, 26473), (93, 26500), (110, 26575), (117, 26605), (121, 26626), (123, 26644), (136, 26698), (143, 26731), (167, 26860), (184, 26938), (186, 26950), (193, 26971), (197, 26986), (202, 26998), (219, 27079), (220, 27085), (229, 27133), (230, 27145), (241, 27187), (247, 27205), (254, 27238), (265, 27286), (279, 27346), (283, 27361), (287, 27376), (288, 27379), (303, 27442), (316, 27514), (322, 27544),

Gene: AbsoluteMadLad\_28 Start: 26226, Stop: 27659, Start Num: 25

Candidate Starts for AbsoluteMadLad\_28:

(Start: 25 @26226 has 339 MA's), (35, 26283), (40, 26307), (45, 26331), (61, 26406), (101, 26622), (108, 26649), (110, 26658), (114, 26679), (119, 26700), (121, 26709), (133, 26772), (153, 26865), (163, 26922), (166, 26940), (198, 27072), (210, 27120), (219, 27162), (220, 27168), (221, 27171), (228, 27210), (235, 27243), (236, 27249), (239, 27258), (242, 27273), (253, 27318), (277, 27423), (287, 27459), (302, 27519), (304, 27528), (316, 27597),

Gene: Abt2graduatex2\_22 Start: 20847, Stop: 22187, Start Num: 27

Candidate Starts for Abt2graduatex2\_22:

(Start: 27 @20847 has 38 MA's), (37, 20913), (39, 20922), (69, 21021), (71, 21024), (84, 21096), (92, 21144), (106, 21207), (117, 21255), (127, 21312), (134, 21339), (165, 21480), (168, 21495), (176, 21534), (178, 21543), (185, 21576), (247, 21744), (255, 21780), (261, 21798), (276, 21855), (310, 22002), (311, 22005), (324, 22071), (329, 22107), (332, 22152), (334, 22167),

Gene: Acadian\_28 Start: 26458, Stop: 27891, Start Num: 25

Candidate Starts for Acadian\_28:

(13, 26392), (Start: 25 @26458 has 339 MA's), (43, 26554), (44, 26560), (56, 26611), (67, 26659), (76, 26710), (79, 26740), (92, 26803), (110, 26890), (111, 26896), (119, 26932), (121, 26941), (131, 26992), (165, 27163), (167, 27175), (202, 27313), (206, 27331), (219, 27394), (244, 27511), (246, 27517), (279, 27661), (290, 27703), (322, 27859), (324, 27865),

Gene: Adriana\_29 Start: 26215, Stop: 27648, Start Num: 25

Candidate Starts for Adriana\_29:

(Start: 25 @26215 has 339 MA's), (35, 26272), (40, 26296), (45, 26320), (61, 26395), (101, 26611), (108, 26638), (110, 26647), (114, 26668), (119, 26689), (121, 26698), (133, 26761), (153, 26854), (163, 26911), (166, 26929), (198, 27061), (210, 27109), (219, 27151), (220, 27157), (221, 27160), (228, 27199), (235, 27232), (236, 27238), (239, 27247), (242, 27262), (253, 27307), (277, 27412), (287, 27448), (302, 27508), (304, 27517), (316, 27586),

Gene: Aelin\_28 Start: 25778, Stop: 27211, Start Num: 25

Candidate Starts for Aelin\_28:

(Start: 25 @25778 has 339 MA's), (35, 25835), (40, 25859), (45, 25883), (61, 25958), (101, 26174), (108, 26201), (110, 26210), (114, 26231), (119, 26252), (121, 26261), (133, 26324), (153, 26417), (163, 26474), (166, 26492), (198, 26624), (210, 26672), (219, 26714), (220, 26720), (221, 26723), (228, 26762), (235, 26795), (236, 26801), (239, 26810), (242, 26825), (253, 26870), (277, 26975), (287, 27011), (302, 27071), (304, 27080), (316, 27149),

Gene: Ahwei\_25 Start: 25433, Stop: 26866, Start Num: 25

Candidate Starts for Ahwei\_25:

(Start: 25 @25433 has 339 MA's), (32, 25466), (35, 25490), (36, 25493), (41, 25523), (50, 25562), (51, 25565), (53, 25571), (61, 25613), (70, 25646), (77, 25688), (79, 25715), (101, 25829), (109, 25862), (110, 25865), (111, 25871), (119, 25907), (121, 25916), (131, 25967), (139, 26009), (156, 26084), (160, 26120), (165, 26138), (166, 26147), (167, 26150), (171, 26171), (184, 26228), (186, 26240), (200, 26282), (202, 26288), (219, 26369), (220, 26375), (223, 26399), (228, 26417), (235, 26450), (239, 26465), (241, 26477), (254, 26528), (258, 26540), (286, 26663), (287, 26666), (303, 26732), (307, 26753), (315, 26801), (324, 26840), (328, 26861),

Gene: Akoma\_29 Start: 26147, Stop: 27577, Start Num: 26

Candidate Starts for Akoma\_29:

(Start: 26 @26147 has 105 MA's), (35, 26204), (40, 26228), (41, 26237), (61, 26324), (89, 26474), (93, 26501), (110, 26576), (117, 26606), (121, 26627), (123, 26645), (136, 26699), (143, 26732), (167, 26861), (184, 26939), (186, 26951), (193, 26972), (197, 26987), (202, 26999), (219, 27080), (220, 27086), (229, 27134), (230, 27146), (241, 27188), (247, 27206), (254, 27239), (265, 27287), (279, 27347), (283, 27362), (287, 27377), (288, 27380), (303, 27443), (316, 27515), (322, 27545),

Gene: AksarBAT\_25 Start: 24019, Stop: 25545, Start Num: 9

Candidate Starts for AksarBAT\_25:

(Start: 9 @24019 has 19 MA's), (14, 24052), (16, 24076), (24, 24115), (Start: 27 @24121 has 38 MA's), (Start: 28 @24124 has 1 MA's), (30, 24139), (77, 24364), (93, 24469), (108, 24535), (109, 24541), (117, 24574), (135, 24664), (139, 24688), (153, 24751), (165, 24817), (167, 24829), (183, 24898), (184, 24907), (186, 24919), (197, 24955), (200, 24961), (205, 24982), (219, 25048), (220, 25054), (224, 25084), (228, 25096), (235, 25129), (241, 25156), (244, 25165), (247, 25174), (254, 25207), (258, 25219), (285, 25339), (312, 25465), (315, 25480),

Gene: AlanGrant\_27 Start: 27172, Stop: 28605, Start Num: 25

Candidate Starts for AlanGrant\_27:

(Start: 25 @27172 has 339 MA's), (35, 27229), (41, 27262), (53, 27310), (59, 27337), (61, 27352), (77, 27427), (79, 27454), (91, 27514), (101, 27568), (109, 27601), (110, 27604), (126, 27685), (131, 27706), (139, 27748), (153, 27811), (160, 27859), (166, 27886), (167, 27889), (183, 27958), (184, 27967), (186, 27979), (189, 27985), (202, 28027), (206, 28045), (210, 28066), (219, 28108), (220, 28114), (227, 28153), (235, 28189), (254, 28267), (258, 28279), (282, 28384), (287, 28405), (303, 28471), (315, 28540), (316, 28543), (322, 28573), (324, 28579), (326, 28588), (328, 28600),

Gene: Aleia\_29 Start: 25798, Stop: 27231, Start Num: 25

Candidate Starts for Aleia\_29:

(Start: 25 @25798 has 339 MA's), (35, 25855), (40, 25879), (45, 25903), (61, 25978), (101, 26194), (108, 26221), (110, 26230), (114, 26251), (119, 26272), (121, 26281), (133, 26344), (153, 26437), (166, 26512), (198, 26644), (210, 26692), (219, 26734), (220, 26740), (221, 26743), (228, 26782), (230, 26800), (235, 26815), (236, 26821), (239, 26830), (242, 26845), (253, 26890), (277, 26995), (287, 27031), (302, 27091), (304, 27100), (309, 27127), (316, 27169), (321, 27190),

Gene: Allegro\_30 Start: 27475, Stop: 28911, Start Num: 26

Candidate Starts for Allegro\_30:

(Start: 26 @27475 has 105 MA's), (32, 27508), (35, 27532), (36, 27535), (40, 27556), (44, 27577), (51, 27610), (60, 27655), (63, 27664), (77, 27727), (109, 27907), (110, 27910), (114, 27931), (120, 27955), (121, 27961), (123, 27979), (130, 28009), (131, 28012), (134, 28027), (136, 28033), (150, 28102), (158, 28156), (163, 28174), (166, 28192), (167, 28195), (172, 28219), (184, 28273), (195, 28312), (201, 28330), (206, 28351), (218, 28408), (219, 28414), (221, 28423), (230, 28480), (244, 28531), (247, 28540), (254, 28573), (257, 28582), (271, 28648), (282, 28690), (287, 28711), (290, 28723), (292, 28741), (304, 28780), (315, 28846), (316, 28849), (322, 28879),

Gene: AltPhacts\_29 Start: 26204, Stop: 27637, Start Num: 25

Candidate Starts for AltPhacts\_29:

(Start: 25 @26204 has 339 MA's), (35, 26261), (40, 26285), (45, 26309), (61, 26384), (101, 26600), (108, 26627), (110, 26636), (114, 26657), (119, 26678), (121, 26687), (133, 26750), (153, 26843), (163, 26900), (166, 26918), (198, 27050), (210, 27098), (219, 27140), (220, 27146), (221, 27149), (228, 27188), (235, 27221), (236, 27227), (239, 27236), (242, 27251), (253, 27296), (277, 27401), (287, 27437), (302, 27497), (304, 27506), (316, 27575),

Gene: Altwerkus\_28 Start: 25904, Stop: 27337, Start Num: 25

Candidate Starts for Altwerkus\_28:

(Start: 25 @25904 has 339 MA's), (35, 25961), (40, 25985), (45, 26009), (61, 26084), (101, 26300), (108, 26327), (110, 26336), (114, 26357), (119, 26378), (121, 26387), (133, 26450), (153, 26543), (163, 26600), (166, 26618), (198, 26750), (210, 26798), (219, 26840), (220, 26846), (221, 26849), (228, 26888), (235, 26921), (236, 26927), (239, 26936), (242, 26951), (253, 26996), (277, 27101), (287, 27137), (302, 27197), (304, 27206), (316, 27275),

Gene: Amo99\_58 Start: 36171, Stop: 37457, Start Num: 26

Candidate Starts for Amo99\_58:

(Start: 26 @36171 has 105 MA's), (29, 36189), (83, 36408), (89, 36450), (118, 36582), (148, 36723), (179, 36870), (192, 36927), (244, 37104), (257, 37155), (272, 37212), (273, 37215), (281, 37245), (284, 37260), (295, 37302), (300, 37317), (325, 37428), (327, 37443),

Gene: AnClar\_26 Start: 25988, Stop: 27517, Start Num: 9

Candidate Starts for AnClar\_26:

(Start: 9 @25988 has 19 MA's), (14, 26021), (59, 26252), (110, 26516), (115, 26540), (119, 26558), (121, 26567), (130, 26615), (131, 26618), (136, 26639), (163, 26780), (165, 26789), (166, 26798), (167, 26801), (171, 26822), (183, 26870), (186, 26891), (197, 26927), (219, 27020), (220, 27026), (228, 27068), (235, 27101), (236, 27107), (239, 27116), (269, 27239), (279, 27287),

Gene: AnarQue\_27 Start: 25498, Stop: 27024, Start Num: 9

Candidate Starts for AnarQue\_27:

(Start: 9 @25498 has 19 MA's), (14, 25531), (16, 25555), (18, 25558), (Start: 27 @25600 has 38 MA's), (Start: 28 @25603 has 1 MA's), (57, 25753), (93, 25948), (108, 26014), (117, 26053), (132, 26128), (153, 26230), (163, 26287), (168, 26311), (183, 26377), (184, 26386), (186, 26398), (188, 26401), (200, 26440), (205, 26461), (219, 26527), (220, 26533), (227, 26572), (228, 26575), (235, 26608), (241, 26635), (244, 26644), (247, 26653), (258, 26698), (265, 26734), (269, 26746), (279, 26794), (302, 26884), (315, 26959), (322, 26992),

Gene: Anderson\_29 Start: 26210, Stop: 27643, Start Num: 25

Candidate Starts for Anderson\_29:

(Start: 25 @26210 has 339 MA's), (35, 26267), (40, 26291), (45, 26315), (61, 26390), (101, 26606), (108, 26633), (110, 26642), (114, 26663), (119, 26684), (121, 26693), (133, 26756), (153, 26849), (163, 26906), (166, 26924), (198, 27056), (210, 27104), (219, 27146), (220, 27152), (221, 27155), (228, 27194), (235, 27227), (236, 27233), (239, 27242), (242, 27257), (253, 27302), (277, 27407), (287, 27443), (302, 27503), (304, 27512), (316, 27581),

Gene: Andre\_29 Start: 26208, Stop: 27641, Start Num: 25

Candidate Starts for Andre\_29:

(Start: 25 @26208 has 339 MA's), (35, 26265), (40, 26289), (45, 26313), (61, 26388), (101, 26604), (108, 26631), (110, 26640), (114, 26661), (119, 26682), (121, 26691), (133, 26754), (153, 26847), (163, 26904), (166, 26922), (198, 27054), (210, 27102), (219, 27144), (220, 27150), (221, 27153), (228, 27192), (235, 27225), (236, 27231), (239, 27240), (242, 27255), (253, 27300), (277, 27405), (287, 27441), (302, 27501), (304, 27510), (316, 27579),

Gene: AngelCake\_29 Start: 26228, Stop: 27661, Start Num: 25

Candidate Starts for AngelCake\_29:

(Start: 25 @26228 has 339 MA's), (35, 26285), (40, 26309), (45, 26333), (61, 26408), (108, 26651), (110, 26660), (114, 26681), (119, 26702), (121, 26711), (133, 26774), (153, 26867), (163, 26924), (166, 26942), (198, 27074), (210, 27122), (219, 27164), (220, 27170), (221, 27173), (228, 27212), (230, 27230), (235, 27245), (236, 27251), (239, 27260), (242, 27275), (253, 27320), (277, 27425), (287, 27461), (302, 27521), (304, 27530), (309, 27557), (316, 27599), (321, 27620),

Gene: Antihero\_25 Start: 25433, Stop: 26866, Start Num: 25

Candidate Starts for Antihero\_25:

(Start: 25 @25433 has 339 MA's), (32, 25466), (35, 25490), (36, 25493), (41, 25523), (50, 25562), (51, 25565), (53, 25571), (61, 25613), (70, 25646), (77, 25688), (79, 25715), (101, 25829), (109, 25862), (110, 25865), (111, 25871), (119, 25907), (121, 25916), (131, 25967), (139, 26009), (156, 26084), (160, 26120), (165, 26138), (166, 26147), (167, 26150), (171, 26171), (184, 26228), (186, 26240), (200, 26282), (202, 26288), (219, 26369), (220, 26375), (223, 26399), (228, 26417), (235, 26450), (239, 26465), (241, 26477), (254, 26528), (258, 26540), (286, 26663), (287, 26666), (303, 26732), (307, 26753), (315, 26801), (324, 26840), (328, 26861),

Gene: Antonia\_28 Start: 25778, Stop: 27211, Start Num: 25

Candidate Starts for Antonia\_28:

(Start: 25 @25778 has 339 MA's), (35, 25835), (40, 25859), (45, 25883), (61, 25958), (101, 26174), (108, 26201), (110, 26210), (114, 26231), (119, 26252), (121, 26261), (133, 26324), (153, 26417), (163, 26474), (166, 26492), (198, 26624), (210, 26672), (219, 26714), (220, 26720), (221, 26723), (228, 26762), (235, 26795), (236, 26801), (239, 26810), (242, 26825), (253, 26870), (277, 26975), (287, 27011), (302, 27071), (304, 27080), (316, 27149),

Gene: Aonishiki\_29 Start: 26250, Stop: 27683, Start Num: 25

Candidate Starts for Aonishiki\_29:

(Start: 25 @26250 has 339 MA's), (35, 26307), (40, 26331), (45, 26355), (61, 26430), (101, 26646), (108, 26673), (110, 26682), (114, 26703), (119, 26724), (121, 26733), (133, 26796), (153, 26889), (163, 26946), (166, 26964), (198, 27096), (210, 27144), (219, 27186), (220, 27192), (221, 27195), (228, 27234), (235, 27267), (236, 27273), (239, 27282), (242, 27297), (253, 27342), (277, 27447), (287, 27483), (302, 27543), (304, 27552), (316, 27621),

Gene: Apex\_26 Start: 26640, Stop: 28073, Start Num: 25

Candidate Starts for Apex\_26:

(Start: 25 @26640 has 339 MA's), (32, 26673), (35, 26697), (36, 26700), (41, 26730), (51, 26772), (53, 26778), (61, 26820), (70, 26853), (77, 26895), (101, 27036), (110, 27072), (111, 27078), (119, 27114), (121, 27123), (131, 27174), (139, 27216), (160, 27327), (165, 27345), (166, 27354), (171, 27378), (184, 27435), (186, 27447), (200, 27489), (202, 27495), (219, 27576), (220, 27582), (223, 27606), (228, 27624), (235, 27657), (239, 27672), (241, 27684), (254, 27735), (258, 27747), (286, 27870), (287, 27873), (303, 27939), (307, 27960), (315, 28008), (324, 28047), (328, 28068),

Gene: Apizium\_28 Start: 25969, Stop: 27402, Start Num: 25

Candidate Starts for Apizium\_28:

(Start: 25 @25969 has 339 MA's), (35, 26026), (40, 26050), (45, 26074), (61, 26149), (101, 26365), (108, 26392), (110, 26401), (114, 26422), (119, 26443), (121, 26452), (133, 26515), (153, 26608), (163, 26665), (166, 26683), (198, 26815), (210, 26863), (219, 26905), (220, 26911), (221, 26914), (228, 26953), (235, 26986), (236, 26992), (239, 27001), (253, 27061), (277, 27166), (287, 27202), (302, 27262), (304, 27271), (316, 27340),

Gene: Arbiter\_30 Start: 27564, Stop: 29000, Start Num: 26

Candidate Starts for Arbiter\_30:

(Start: 26 @27564 has 105 MA's), (32, 27597), (35, 27621), (36, 27624), (40, 27645), (44, 27666), (51, 27699), (60, 27744), (63, 27753), (77, 27816), (109, 27996), (110, 27999), (114, 28020), (120, 28044), (121, 28050), (123, 28068), (130, 28098), (131, 28101), (134, 28116), (136, 28122), (150, 28191), (158, 28245), (163, 28263), (166, 28281), (167, 28284), (172, 28308), (184, 28362), (195, 28401), (201, 28419), (206, 28440), (218, 28497), (219, 28503), (221, 28512), (230, 28569), (244, 28620), (247, 28629), (254, 28662), (257, 28671), (271, 28737), (282, 28779), (287, 28800), (290, 28812), (292, 28830), (304, 28869), (315, 28935), (316, 28938), (322, 28968),

Gene: Ares\_30 Start: 27486, Stop: 28922, Start Num: 26

Candidate Starts for Ares\_30:

(Start: 26 @27486 has 105 MA's), (32, 27519), (35, 27543), (36, 27546), (40, 27567), (44, 27588), (51, 27621), (60, 27666), (63, 27675), (77, 27738), (109, 27918), (110, 27921), (114, 27942), (120, 27966), (121, 27972), (123, 27990), (130, 28020), (131, 28023), (134, 28038), (136, 28044), (150, 28113), (158, 28167), (163, 28185), (166, 28203), (167, 28206), (172, 28230), (184, 28284), (195, 28323), (201, 28341), (206, 28362), (218, 28419), (219, 28425), (221, 28434), (230, 28491), (244, 28542), (247, 28551), (254, 28584), (257, 28593), (271, 28659), (282, 28701), (287, 28722), (290, 28734), (292, 28752), (304, 28791), (315, 28857), (316, 28860), (322, 28890),

Gene: Argie\_23 Start: 25025, Stop: 26461, Start Num: 27

Candidate Starts for Argie\_23:

(Start: 27 @25025 has 38 MA's), (31, 25046), (32, 25055), (60, 25202), (63, 25211), (82, 25313), (86, 25331), (93, 25382), (99, 25412), (108, 25448), (110, 25457), (115, 25481), (117, 25487), (131, 25559), (163, 25721), (164, 25727), (166, 25739), (167, 25742), (172, 25766), (184, 25820), (186, 25832), (203, 25883), (206, 25901), (219, 25964), (220, 25970), (227, 26009), (228, 26012), (230, 26030), (241, 26072), (244, 26081), (247, 26090), (254, 26123), (269, 26183), (271, 26198), (279, 26231), (287, 26261), (300, 26315), (315, 26396), (316, 26399), (322, 26429),

Gene: Ashraf\_28 Start: 25776, Stop: 27209, Start Num: 25

Candidate Starts for Ashraf\_28:

(Start: 25 @25776 has 339 MA's), (35, 25833), (40, 25857), (45, 25881), (61, 25956), (108, 26199), (110, 26208), (114, 26229), (119, 26250), (121, 26259), (133, 26322), (153, 26415), (154, 26418), (163, 26472), (166, 26490), (198, 26622), (210, 26670), (219, 26712), (220, 26718), (221, 26721), (228, 26760), (230, 26778), (235, 26793), (236, 26799), (239, 26808), (242, 26823), (253, 26868), (277, 26973), (287, 27009), (302, 27069), (304, 27078), (309, 27105), (316, 27147), (321, 27168),

Gene: Asis\_21 Start: 20262, Stop: 21599, Start Num: 27

Candidate Starts for Asis\_21:

(3, 19857), (4, 20082), (6, 20130), (8, 20142), (Start: 27 @20262 has 38 MA's), (39, 20337), (71, 20436), (84, 20508), (89, 20544), (92, 20556), (104, 20610), (114, 20658), (127, 20724), (165, 20892), (168, 20907), (176, 20946), (178, 20955), (185, 20988), (213, 21063), (232, 21102), (238, 21126), (247, 21156), (251, 21180), (276, 21267), (297, 21357), (310, 21414), (311, 21417), (324, 21483), (332, 21564), (334, 21579),

Gene: Athena\_30 Start: 26897, Stop: 28327, Start Num: 26

Candidate Starts for Athena\_30:

(Start: 26 @26897 has 105 MA's), (35, 26954), (40, 26978), (41, 26987), (61, 27074), (89, 27224), (93, 27251), (110, 27326), (117, 27356), (121, 27377), (123, 27395), (136, 27449), (145, 27500), (167, 27611), (184, 27689), (186, 27701), (193, 27722), (197, 27737), (202, 27749), (219, 27830), (220, 27836), (230, 27896), (241, 27938), (247, 27956), (254, 27989), (265, 28037), (279, 28097), (283, 28112), (287, 28127), (288, 28130), (303, 28193), (316, 28265), (322, 28295),

Gene: Audrey\_29 Start: 26146, Stop: 27576, Start Num: 26

Candidate Starts for Audrey\_29:

(Start: 26 @26146 has 105 MA's), (35, 26203), (40, 26227), (41, 26236), (61, 26323), (89, 26473), (93, 26500), (110, 26575), (117, 26605), (121, 26626), (123, 26644), (136, 26698), (143, 26731), (145, 26749), (167, 26860), (184, 26938), (186, 26950), (193, 26971), (197, 26986), (202, 26998), (219, 27079), (220, 27085), (230, 27145), (241, 27187), (247, 27205), (254, 27238), (265, 27286), (279, 27346), (283, 27361), (287, 27376), (288, 27379), (303, 27442), (316, 27514), (322, 27544),

Gene: Austelle\_27 Start: 27096, Stop: 28529, Start Num: 25

Candidate Starts for Austelle\_27:

(Start: 25 @27096 has 339 MA's), (32, 27129), (35, 27153), (36, 27156), (41, 27186), (51, 27228), (53, 27234), (61, 27276), (70, 27309), (77, 27351), (96, 27468), (101, 27492), (110, 27528), (111, 27534), (119, 27570), (121, 27579), (131, 27630), (139, 27672), (160, 27783), (165, 27801), (166, 27810), (167, 27813), (171, 27834), (184, 27891), (186, 27903), (200, 27945), (202, 27951), (219, 28032), (220, 28038), (223, 28062), (228, 28080), (235, 28113), (239, 28128), (241, 28140), (254, 28191), (258, 28203), (286, 28326), (287, 28329), (303, 28395), (307, 28416), (315, 28464), (324, 28503), (328, 28524),

Gene: Axumite\_25 Start: 23515, Stop: 25044, Start Num: 9

Candidate Starts for Axumite\_25:

(1, 22570), (2, 22669), (Start: 9 @23515 has 19 MA's), (14, 23548), (Start: 27 @23617 has 38 MA's), (30, 23635), (54, 23758), (59, 23779), (63, 23800), (110, 24043), (119, 24085), (121, 24094), (130, 24142), (165, 24316), (167, 24328), (183, 24397), (186, 24418), (218, 24541), (219, 24547), (222, 24574), (228, 24595), (235, 24628), (236, 24634), (239, 24643), (256, 24712), (263, 24742), (269, 24766), (279, 24814),

Gene: BabyGotBac\_21 Start: 20262, Stop: 21599, Start Num: 27

Candidate Starts for BabyGotBac\_21:

(3, 19857), (4, 20082), (6, 20130), (8, 20142), (Start: 27 @20262 has 38 MA's), (39, 20337), (71, 20436), (84, 20508), (89, 20544), (92, 20556), (104, 20610), (114, 20658), (127, 20724), (165, 20892), (168, 20907), (176, 20946), (178, 20955), (185, 20988), (213, 21063), (232, 21102), (238, 21126), (247, 21156), (251, 21180), (276, 21267), (297, 21357), (310, 21414), (311, 21417), (324, 21483), (332, 21564), (334, 21579),

Gene: Badfish\_29 Start: 26239, Stop: 27672, Start Num: 25

Candidate Starts for Badfish\_29:

(Start: 25 @26239 has 339 MA's), (35, 26296), (40, 26320), (45, 26344), (61, 26419), (101, 26635), (108, 26662), (110, 26671), (114, 26692), (119, 26713), (121, 26722), (133, 26785), (153, 26878), (163, 26935), (166, 26953), (198, 27085), (210, 27133), (219, 27175), (220, 27181), (221, 27184), (228, 27223), (235, 27256), (236, 27262), (239, 27271), (242, 27286), (253, 27331), (277, 27436), (287, 27472), (302, 27532), (304, 27541), (316, 27610),

Gene: Bae\_27 Start: 26232, Stop: 27665, Start Num: 25

Candidate Starts for Bae\_27:

(Start: 25 @26232 has 339 MA's), (43, 26328), (44, 26334), (76, 26484), (79, 26514), (110, 26664), (111, 26670), (121, 26715), (131, 26766), (167, 26949), (184, 27027), (189, 27045), (202, 27087), (219, 27168), (241, 27276), (244, 27285), (246, 27291), (290, 27477), (293, 27498), (322, 27633), (324, 27639),

Gene: Baloo\_29 Start: 26149, Stop: 27579, Start Num: 26

Candidate Starts for Baloo\_29:

(Start: 26 @26149 has 105 MA's), (35, 26206), (40, 26230), (41, 26239), (61, 26326), (89, 26476), (93, 26503), (110, 26578), (117, 26608), (121, 26629), (123, 26647), (136, 26701), (143, 26734), (167, 26863), (184, 26941), (186, 26953), (193, 26974), (197, 26989), (202, 27001), (219, 27082), (220, 27088), (229, 27136), (230, 27148), (241, 27190), (247, 27208), (254, 27241), (265, 27289), (279, 27349), (283, 27364), (287, 27379), (288, 27382), (303, 27445), (316, 27517), (322, 27547),

Gene: Bananafish\_30 Start: 27484, Stop: 28920, Start Num: 26

Candidate Starts for Bananafish\_30:

(Start: 26 @27484 has 105 MA's), (32, 27517), (35, 27541), (36, 27544), (40, 27565), (44, 27586), (51, 27619), (60, 27664), (63, 27673), (77, 27736), (109, 27916), (110, 27919), (114, 27940), (120, 27964), (121, 27970), (123, 27988), (130, 28018), (131, 28021), (136, 28042), (150, 28111), (158, 28165), (163, 28183), (166, 28201), (167, 28204), (172, 28228), (184, 28282), (195, 28321), (201, 28339), (206, 28360), (218, 28417), (219, 28423), (221, 28432), (230, 28489), (244, 28540), (247, 28549), (254, 28582), (257, 28591), (271, 28657), (282, 28699), (287, 28720), (290, 28732), (292, 28750), (304, 28789), (315, 28855), (316, 28858), (322, 28888),

Gene: Banjo\_28 Start: 25915, Stop: 27348, Start Num: 25

Candidate Starts for Banjo\_28:

(Start: 25 @25915 has 339 MA's), (35, 25972), (40, 25996), (45, 26020), (61, 26095), (101, 26311), (108, 26338), (110, 26347), (114, 26368), (119, 26389), (121, 26398), (133, 26461), (153, 26554), (163, 26611), (166, 26629), (198, 26761), (210, 26809), (219, 26851), (220, 26857), (221, 26860), (228, 26899), (235, 26932), (236, 26938), (239, 26947), (242, 26962), (253, 27007), (277, 27112), (287, 27148), (302, 27208), (304, 27217), (316, 27286),

Gene: Basato\_30 Start: 26443, Stop: 27876, Start Num: 25

Candidate Starts for Basato\_30:

(Start: 25 @26443 has 339 MA's), (35, 26500), (40, 26524), (45, 26548), (61, 26623), (101, 26839), (108, 26866), (110, 26875), (114, 26896), (119, 26917), (121, 26926), (133, 26989), (153, 27082), (163, 27139), (166, 27157), (198, 27289), (210, 27337), (219, 27379), (220, 27385), (221, 27388), (228, 27427), (235, 27460), (236, 27466), (239, 27475), (242, 27490), (253, 27535), (277, 27640),

(287, 27676), (302, 27736), (304, 27745), (316, 27814),

Gene: BatteryCK\_28 Start: 25834, Stop: 27267, Start Num: 25

Candidate Starts for BatteryCK\_28:

(Start: 25 @25834 has 339 MA's), (35, 25891), (40, 25915), (45, 25939), (61, 26014), (108, 26257), (110, 26266), (114, 26287), (119, 26308), (121, 26317), (133, 26380), (153, 26473), (163, 26530), (166, 26548), (198, 26680), (210, 26728), (219, 26770), (220, 26776), (221, 26779), (228, 26818), (230, 26836), (235, 26851), (236, 26857), (239, 26866), (242, 26881), (253, 26926), (277, 27031), (287, 27067), (302, 27127), (304, 27136), (309, 27163), (316, 27205), (321, 27226),

Gene: BayC\_21 Start: 20262, Stop: 21599, Start Num: 27

Candidate Starts for BayC\_21:

(3, 19857), (4, 20082), (6, 20130), (8, 20142), (Start: 27 @20262 has 38 MA's), (39, 20337), (71, 20436), (84, 20508), (89, 20544), (92, 20556), (104, 20610), (114, 20658), (127, 20724), (165, 20892), (168, 20907), (176, 20946), (178, 20955), (185, 20988), (213, 21063), (232, 21102), (238, 21126), (247, 21156), (251, 21180), (276, 21267), (297, 21357), (310, 21414), (311, 21417), (324, 21483), (332, 21564), (334, 21579),

Gene: Beagle\_38 Start: 26417, Stop: 27625, Start Num: 27

Candidate Starts for Beagle\_38:

(Start: 27 @26417 has 38 MA's), (32, 26447), (37, 26483), (89, 26678), (104, 26744), (105, 26747), (112, 26780), (113, 26783), (114, 26792), (118, 26810), (129, 26852), (134, 26870), (148, 26933), (155, 26957), (159, 26987), (165, 26999), (169, 27023), (180, 27068), (199, 27143), (243, 27281), (244, 27284), (252, 27317), (280, 27416), (295, 27476), (313, 27557), (318, 27572), (323, 27593), (325, 27599),

Gene: Beaglebox\_28 Start: 25935, Stop: 27368, Start Num: 25

Candidate Starts for Beaglebox\_28:

(Start: 25 @25935 has 339 MA's), (35, 25992), (40, 26016), (45, 26040), (61, 26115), (101, 26331), (108, 26358), (110, 26367), (114, 26388), (119, 26409), (121, 26418), (133, 26481), (153, 26574), (163, 26631), (166, 26649), (198, 26781), (210, 26829), (219, 26871), (220, 26877), (221, 26880), (228, 26919), (235, 26952), (236, 26958), (239, 26967), (242, 26982), (253, 27027), (277, 27132), (287, 27168), (302, 27228), (304, 27237), (316, 27306),

Gene: Ben11\_28 Start: 25968, Stop: 27398, Start Num: 26

Candidate Starts for Ben11\_28:

(Start: 26 @25968 has 105 MA's), (35, 26025), (40, 26049), (41, 26058), (61, 26145), (89, 26295), (93, 26322), (110, 26397), (117, 26427), (121, 26448), (123, 26466), (136, 26520), (143, 26553), (145, 26571), (167, 26682), (184, 26760), (186, 26772), (193, 26793), (197, 26808), (202, 26820), (219, 26901), (220, 26907), (229, 26955), (230, 26967), (241, 27009), (247, 27027), (254, 27060), (265, 27108), (279, 27168), (283, 27183), (287, 27198), (288, 27201), (303, 27264), (316, 27336), (322, 27366),

Gene: Bernardo\_29 Start: 26209, Stop: 27666, Start Num: 19

Candidate Starts for Bernardo\_29:

(Start: 19 @26209 has 1 MA's), (22, 26227), (Start: 26 @26236 has 105 MA's), (31, 26260), (35, 26293), (40, 26317), (41, 26326), (61, 26413), (89, 26563), (93, 26590), (110, 26665), (117, 26695), (121, 26716), (123, 26734), (136, 26788), (143, 26821), (145, 26839), (167, 26950), (184, 27028), (186, 27040), (193, 27061), (197, 27076), (202, 27088), (219, 27169), (220, 27175), (230, 27235), (241, 27277), (247, 27295), (254, 27328), (265, 27376), (279, 27436), (283, 27451), (287, 27466), (288, 27469), (316, 27604), (322, 27634),

Gene: BetaFish\_37 Start: 26611, Stop: 27819, Start Num: 27

Candidate Starts for BetaFish\_37:

(Start: 27 @26611 has 38 MA's), (32, 26641), (37, 26677), (89, 26872), (104, 26938), (105, 26941), (112, 26974), (113, 26977), (114, 26986), (118, 27004), (129, 27046), (134, 27064), (148, 27127), (155, 27151), (159, 27181), (165, 27193), (169, 27217), (180, 27262), (190, 27310), (199, 27337), (243, 27475), (244, 27478), (252, 27511), (280, 27610), (313, 27751), (318, 27766), (323, 27787), (325, 27793),

Gene: BiggityBass\_25 Start: 25779, Stop: 27308, Start Num: 9

Candidate Starts for BiggityBass\_25:

(Start: 9 @25779 has 19 MA's), (14, 25812), (46, 25986), (59, 26043), (77, 26127), (110, 26307), (115, 26331), (119, 26349), (121, 26358), (130, 26406), (131, 26409), (136, 26430), (163, 26571), (165, 26580), (166, 26589), (167, 26592), (171, 26613), (183, 26661), (186, 26682), (197, 26718), (219, 26811), (220, 26817), (235, 26892), (236, 26898), (239, 26907), (269, 27030), (279, 27078), (316, 27246),

Gene: BirdsNest\_31 Start: 25822, Stop: 27255, Start Num: 25

Candidate Starts for BirdsNest\_31:

(Start: 25 @25822 has 339 MA's), (36, 25882), (40, 25903), (45, 25927), (52, 25957), (61, 26002), (89, 26155), (109, 26251), (128, 26341), (131, 26356), (163, 26518), (174, 26572), (183, 26608), (197, 26665), (200, 26671), (202, 26677), (203, 26680), (219, 26758), (227, 26803), (239, 26854), (244, 26875), (253, 26914), (290, 27067), (304, 27124), (319, 27208), (324, 27229),

Gene: Bishoperium\_28 Start: 25924, Stop: 27357, Start Num: 25

Candidate Starts for Bishoperium\_28:

(Start: 25 @25924 has 339 MA's), (35, 25981), (40, 26005), (45, 26029), (61, 26104), (101, 26320), (108, 26347), (110, 26356), (114, 26377), (119, 26398), (121, 26407), (133, 26470), (153, 26563), (163, 26620), (166, 26638), (198, 26770), (210, 26818), (219, 26860), (220, 26866), (221, 26869), (228, 26908), (235, 26941), (236, 26947), (239, 26956), (242, 26971), (253, 27016), (277, 27121), (287, 27157), (302, 27217), (304, 27226), (316, 27295),

Gene: BlackStallion\_29 Start: 26226, Stop: 27659, Start Num: 25

Candidate Starts for BlackStallion\_29:

(Start: 25 @26226 has 339 MA's), (35, 26283), (40, 26307), (45, 26331), (61, 26406), (101, 26622), (108, 26649), (110, 26658), (114, 26679), (119, 26700), (121, 26709), (133, 26772), (153, 26865), (163, 26922), (166, 26940), (198, 27072), (210, 27120), (219, 27162), (220, 27168), (221, 27171), (228, 27210), (235, 27243), (236, 27249), (239, 27258), (242, 27273), (253, 27318), (277, 27423), (287, 27459), (302, 27519), (304, 27528), (316, 27597),

Gene: Blackpen\_27 Start: 24916, Stop: 26442, Start Num: 9

Candidate Starts for Blackpen\_27:

(Start: 9 @24916 has 19 MA's), (14, 24949), (16, 24973), (18, 24976), (Start: 27 @25018 has 38 MA's), (Start: 28 @25021 has 1 MA's), (93, 25366), (108, 25432), (117, 25471), (131, 25543), (132, 25546), (153, 25648), (163, 25705), (168, 25729), (183, 25795), (184, 25804), (186, 25816), (188, 25819), (200, 25858), (205, 25879), (219, 25945), (220, 25951), (227, 25990), (228, 25993), (235, 26026), (241, 26053), (244, 26062), (247, 26071), (258, 26116), (265, 26152), (269, 26164), (279, 26212), (302, 26302), (315, 26377), (322, 26410),

Gene: BlackBerry\_28 Start: 25936, Stop: 27369, Start Num: 25

Candidate Starts for BlackBerry\_28:

(Start: 25 @25936 has 339 MA's), (35, 25993), (40, 26017), (45, 26041), (61, 26116), (101, 26332), (108, 26359), (110, 26368), (114, 26389), (119, 26410), (121, 26419), (133, 26482), (153, 26575), (166, 26650), (198, 26782), (210, 26830), (219, 26872), (220, 26878), (221, 26881), (228, 26920), (230, 26938), (235, 26953), (236, 26959), (239, 26968), (242, 26983), (253, 27028), (277, 27133),

(287, 27169), (302, 27229), (304, 27238), (309, 27265), (316, 27307), (321, 27328),

Gene: Blocker23\_30 Start: 27605, Stop: 29041, Start Num: 26

Candidate Starts for Blocker23\_30:

(Start: 26 @27605 has 105 MA's), (32, 27638), (35, 27662), (36, 27665), (40, 27686), (44, 27707), (51, 27740), (60, 27785), (63, 27794), (77, 27857), (109, 28037), (110, 28040), (114, 28061), (120, 28085), (121, 28091), (123, 28109), (130, 28139), (131, 28142), (134, 28157), (136, 28163), (150, 28232), (158, 28286), (163, 28304), (166, 28322), (167, 28325), (172, 28349), (184, 28403), (195, 28442), (201, 28460), (206, 28481), (218, 28538), (219, 28544), (221, 28553), (230, 28610), (244, 28661), (247, 28670), (254, 28703), (257, 28712), (271, 28778), (282, 28820), (287, 28841), (290, 28853), (292, 28871), (304, 28910), (315, 28976), (316, 28979), (322, 29009),

Gene: BlueHusk\_29 Start: 25723, Stop: 27156, Start Num: 25

Candidate Starts for BlueHusk\_29:

(Start: 25 @25723 has 339 MA's), (35, 25780), (40, 25804), (45, 25828), (61, 25903), (101, 26119), (108, 26146), (110, 26155), (114, 26176), (119, 26197), (121, 26206), (133, 26269), (153, 26362), (163, 26419), (166, 26437), (198, 26569), (210, 26617), (219, 26659), (220, 26665), (221, 26668), (228, 26707), (235, 26740), (236, 26746), (239, 26755), (242, 26770), (253, 26815), (277, 26920), (287, 26956), (302, 27016), (304, 27025), (316, 27094),

Gene: Bluephacebaby\_28 Start: 25921, Stop: 27354, Start Num: 25

Candidate Starts for Bluephacebaby\_28:

(Start: 25 @25921 has 339 MA's), (35, 25978), (40, 26002), (45, 26026), (61, 26101), (101, 26317), (108, 26344), (110, 26353), (114, 26374), (119, 26395), (121, 26404), (133, 26467), (153, 26560), (163, 26617), (166, 26635), (198, 26767), (210, 26815), (219, 26857), (220, 26863), (221, 26866), (228, 26905), (235, 26938), (236, 26944), (239, 26953), (242, 26968), (253, 27013), (277, 27118), (287, 27154), (302, 27214), (304, 27223), (316, 27292),

Gene: BobRoss2024\_24 Start: 23544, Stop: 25073, Start Num: 9

Candidate Starts for BobRoss2024\_24:

(Start: 9 @23544 has 19 MA's), (30, 23664), (54, 23787), (58, 23805), (77, 23892), (89, 23973), (108, 24063), (109, 24069), (121, 24123), (136, 24195), (153, 24279), (183, 24426), (186, 24447), (200, 24489), (219, 24576), (228, 24624), (235, 24657), (236, 24663), (241, 24684), (244, 24693), (269, 24795), (283, 24858), (309, 24969), (311, 24978), (315, 25008), (316, 25011),

Gene: BobbyK\_26 Start: 26465, Stop: 27898, Start Num: 25

Candidate Starts for BobbyK\_26:

(Start: 25 @26465 has 339 MA's), (32, 26498), (35, 26522), (36, 26525), (41, 26555), (51, 26597), (53, 26603), (61, 26645), (70, 26678), (77, 26720), (101, 26861), (110, 26897), (111, 26903), (119, 26939), (121, 26948), (131, 26999), (139, 27041), (160, 27152), (165, 27170), (166, 27179), (171, 27203), (184, 27260), (186, 27272), (200, 27314), (202, 27320), (219, 27401), (220, 27407), (223, 27431), (228, 27449), (235, 27482), (239, 27497), (241, 27509), (254, 27560), (258, 27572), (286, 27695), (287, 27698), (303, 27764), (307, 27785), (315, 27833), (324, 27872), (328, 27893),

Gene: Boehler\_29 Start: 26227, Stop: 27660, Start Num: 25

Candidate Starts for Boehler\_29:

(Start: 25 @26227 has 339 MA's), (35, 26284), (40, 26308), (45, 26332), (61, 26407), (101, 26623), (108, 26650), (110, 26659), (114, 26680), (119, 26701), (121, 26710), (133, 26773), (153, 26866), (163, 26923), (166, 26941), (198, 27073), (210, 27121), (219, 27163), (220, 27169), (221, 27172), (228, 27211), (235, 27244), (236, 27250), (239, 27259), (242, 27274), (253, 27319), (277, 27424), (287, 27460), (302, 27520), (304, 27529), (316, 27598),

Gene: Boise\_27 Start: 23638, Stop: 24843, Start Num: 27

Candidate Starts for Boise\_27:

(Start: 27 @23638 has 38 MA's), (Start: 28 @23641 has 1 MA's), (30, 23656), (31, 23659), (34, 23674), (43, 23731), (52, 23758), (73, 23818), (87, 23899), (91, 23917), (94, 23935), (102, 23968), (112, 24010), (114, 24022), (143, 24136), (147, 24160), (152, 24178), (159, 24214), (165, 24220), (174, 24262), (185, 24313), (206, 24388), (220, 24427), (244, 24499), (259, 24553),

Gene: BoogieWoogie\_28 Start: 25908, Stop: 27341, Start Num: 25

Candidate Starts for BoogieWoogie\_28:

(Start: 25 @25908 has 339 MA's), (35, 25965), (40, 25989), (45, 26013), (61, 26088), (101, 26304), (108, 26331), (110, 26340), (114, 26361), (119, 26382), (121, 26391), (133, 26454), (153, 26547), (163, 26604), (166, 26622), (198, 26754), (210, 26802), (219, 26844), (220, 26850), (221, 26853), (228, 26892), (235, 26925), (236, 26931), (239, 26940), (242, 26955), (253, 27000), (277, 27105), (287, 27141), (302, 27201), (304, 27210), (316, 27279),

Gene: Boyle\_30 Start: 27603, Stop: 29039, Start Num: 26

Candidate Starts for Boyle\_30:

(Start: 26 @27603 has 105 MA's), (32, 27636), (35, 27660), (36, 27663), (40, 27684), (44, 27705), (51, 27738), (60, 27783), (63, 27792), (77, 27855), (109, 28035), (110, 28038), (114, 28059), (120, 28083), (121, 28089), (123, 28107), (130, 28137), (131, 28140), (136, 28161), (150, 28230), (158, 28284), (163, 28302), (166, 28320), (167, 28323), (172, 28347), (184, 28401), (195, 28440), (201, 28458), (206, 28479), (218, 28536), (219, 28542), (221, 28551), (230, 28608), (244, 28659), (247, 28668), (254, 28701), (257, 28710), (271, 28776), (282, 28818), (287, 28839), (290, 28851), (292, 28869), (304, 28908), (315, 28974), (316, 28977), (322, 29007),

Gene: Briakila\_29 Start: 26911, Stop: 28341, Start Num: 26

Candidate Starts for Briakila\_29:

(Start: 26 @26911 has 105 MA's), (35, 26968), (40, 26992), (41, 27001), (61, 27088), (93, 27265), (108, 27331), (110, 27340), (117, 27370), (121, 27391), (123, 27409), (136, 27463), (167, 27625), (184, 27703), (186, 27715), (193, 27736), (197, 27751), (202, 27763), (219, 27844), (220, 27850), (229, 27898), (230, 27910), (241, 27952), (247, 27970), (254, 28003), (265, 28051), (279, 28111), (283, 28126), (287, 28141), (288, 28144), (316, 28279), (322, 28309),

Gene: Brilliant\_29 Start: 25932, Stop: 27365, Start Num: 25

Candidate Starts for Brilliant\_29:

(Start: 25 @25932 has 339 MA's), (35, 25989), (40, 26013), (45, 26037), (61, 26112), (108, 26355), (110, 26364), (114, 26385), (119, 26406), (121, 26415), (133, 26478), (153, 26571), (154, 26574), (163, 26628), (166, 26646), (198, 26778), (210, 26826), (219, 26868), (220, 26874), (221, 26877), (228, 26916), (230, 26934), (235, 26949), (236, 26955), (239, 26964), (242, 26979), (253, 27024), (277, 27129), (287, 27165), (302, 27225), (304, 27234), (309, 27261), (316, 27303), (321, 27324),

Gene: BrownCNA\_27 Start: 26726, Stop: 28159, Start Num: 25

Candidate Starts for BrownCNA\_27:

(Start: 25 @26726 has 339 MA's), (32, 26759), (35, 26783), (36, 26786), (41, 26816), (51, 26858), (53, 26864), (61, 26906), (70, 26939), (77, 26981), (96, 27098), (101, 27122), (110, 27158), (111, 27164), (119, 27200), (121, 27209), (131, 27260), (139, 27302), (160, 27413), (165, 27431), (166, 27440), (167, 27443), (171, 27464), (184, 27521), (186, 27533), (200, 27575), (202, 27581), (219, 27662), (220, 27668), (223, 27692), (228, 27710), (235, 27743), (239, 27758), (241, 27770), (254, 27821), (256, 27827), (258, 27833), (282, 27938), (286, 27956), (287, 27959), (303, 28025), (307, 28046), (315, 28094), (324, 28133), (328, 28154),

Gene: Brownie5\_30 Start: 27609, Stop: 29045, Start Num: 26

Candidate Starts for Brownie5\_30:

(Start: 26 @27609 has 105 MA's), (32, 27642), (35, 27666), (36, 27669), (40, 27690), (44, 27711), (51, 27744), (60, 27789), (63, 27798), (77, 27861), (109, 28041), (110, 28044), (114, 28065), (120, 28089), (121, 28095), (123, 28113), (130, 28143), (131, 28146), (134, 28161), (136, 28167), (150, 28236), (158, 28290), (163, 28308), (166, 28326), (167, 28329), (172, 28353), (184, 28407), (195, 28446), (201, 28464), (206, 28485), (218, 28542), (219, 28548), (221, 28557), (230, 28614), (244, 28665), (247, 28674), (254, 28707), (257, 28716), (271, 28782), (282, 28824), (287, 28845), (290, 28857), (292, 28875), (304, 28914), (315, 28980), (316, 28983), (322, 29013),

Gene: BruhMoment\_32 Start: 25992, Stop: 27206, Start Num: 27

Candidate Starts for BruhMoment\_32:

(Start: 27 @25992 has 38 MA's), (32, 26022), (34, 26028), (43, 26085), (95, 26286), (105, 26325), (112, 26358), (114, 26370), (119, 26391), (132, 26442), (134, 26448), (169, 26604), (180, 26649), (182, 26661), (220, 26790), (243, 26862), (244, 26865), (246, 26871), (247, 26874), (255, 26907), (313, 27138), (318, 27153), (323, 27174),

Gene: Buckeye\_29 Start: 26244, Stop: 27677, Start Num: 25

Candidate Starts for Buckeye\_29:

(Start: 25 @26244 has 339 MA's), (35, 26301), (40, 26325), (45, 26349), (61, 26424), (101, 26640), (108, 26667), (110, 26676), (114, 26697), (119, 26718), (121, 26727), (133, 26790), (153, 26883), (163, 26940), (166, 26958), (198, 27090), (210, 27138), (219, 27180), (220, 27186), (221, 27189), (228, 27228), (235, 27261), (236, 27267), (239, 27276), (242, 27291), (253, 27336), (277, 27441), (287, 27477), (302, 27537), (304, 27546), (316, 27615),

Gene: Burr\_28 Start: 25920, Stop: 27353, Start Num: 25

Candidate Starts for Burr\_28:

(Start: 25 @25920 has 339 MA's), (35, 25977), (40, 26001), (45, 26025), (61, 26100), (101, 26316), (108, 26343), (110, 26352), (114, 26373), (119, 26394), (121, 26403), (133, 26466), (153, 26559), (163, 26616), (166, 26634), (198, 26766), (210, 26814), (219, 26856), (220, 26862), (221, 26865), (228, 26904), (235, 26937), (236, 26943), (239, 26952), (242, 26967), (253, 27012), (277, 27117), (287, 27153), (302, 27213), (304, 27222), (316, 27291),

Gene: CRB2\_31 Start: 29200, Stop: 30636, Start Num: 25

Candidate Starts for CRB2\_31:

(Start: 25 @29200 has 339 MA's), (35, 29257), (36, 29260), (40, 29281), (61, 29380), (70, 29413), (91, 29542), (101, 29596), (109, 29629), (110, 29632), (111, 29638), (121, 29683), (126, 29713), (134, 29749), (136, 29755), (153, 29839), (163, 29896), (167, 29917), (183, 29986), (184, 29995), (189, 30013), (197, 30043), (205, 30070), (219, 30139), (220, 30145), (227, 30184), (228, 30187), (239, 30235), (241, 30247), (244, 30256), (253, 30295), (270, 30370), (299, 30487), (315, 30571), (317, 30577),

Gene: CaiB\_27 Start: 25484, Stop: 27010, Start Num: 9

Candidate Starts for CaiB\_27:

(Start: 9 @25484 has 19 MA's), (14, 25517), (16, 25541), (18, 25544), (Start: 27 @25586 has 38 MA's), (Start: 28 @25589 has 1 MA's), (93, 25934), (96, 25949), (108, 26000), (117, 26039), (131, 26111), (132, 26114), (153, 26216), (163, 26273), (168, 26297), (183, 26363), (184, 26372), (186, 26384), (188, 26387), (200, 26426), (205, 26447), (219, 26513), (220, 26519), (227, 26558), (228, 26561), (235, 26594), (241, 26621), (244, 26630), (247, 26639), (258, 26684), (265, 26720), (269, 26732), (279, 26780), (302, 26870), (315, 26945), (322, 26978),

Gene: Calamitous\_30 Start: 27489, Stop: 28925, Start Num: 26

Candidate Starts for Calamitous\_30:

(Start: 26 @27489 has 105 MA's), (32, 27522), (35, 27546), (36, 27549), (40, 27570), (44, 27591), (51, 27624), (60, 27669), (63, 27678), (77, 27741), (109, 27921), (110, 27924), (114, 27945), (120, 27969),

(121, 27975), (123, 27993), (130, 28023), (131, 28026), (136, 28047), (150, 28116), (158, 28170), (163, 28188), (166, 28206), (167, 28209), (172, 28233), (184, 28287), (195, 28326), (201, 28344), (206, 28365), (218, 28422), (219, 28428), (221, 28437), (230, 28494), (244, 28545), (247, 28554), (254, 28587), (257, 28596), (271, 28662), (282, 28704), (287, 28725), (290, 28737), (292, 28755), (304, 28794), (315, 28860), (316, 28863), (322, 28893),

Gene: CamL\_29 Start: 26222, Stop: 27655, Start Num: 25

Candidate Starts for CamL\_29:

(Start: 25 @26222 has 339 MA's), (35, 26279), (40, 26303), (45, 26327), (61, 26402), (101, 26618), (108, 26645), (110, 26654), (114, 26675), (119, 26696), (121, 26705), (133, 26768), (153, 26861), (163, 26918), (166, 26936), (198, 27068), (210, 27116), (219, 27158), (220, 27164), (221, 27167), (228, 27206), (235, 27239), (236, 27245), (239, 27254), (242, 27269), (253, 27314), (277, 27419), (287, 27455), (302, 27515), (304, 27524), (316, 27593),

Gene: CampRoach\_29 Start: 26212, Stop: 27645, Start Num: 25

Candidate Starts for CampRoach\_29:

(Start: 25 @26212 has 339 MA's), (35, 26269), (40, 26293), (45, 26317), (61, 26392), (108, 26635), (110, 26644), (114, 26665), (119, 26686), (121, 26695), (133, 26758), (153, 26851), (154, 26854), (163, 26908), (166, 26926), (198, 27058), (210, 27106), (219, 27148), (220, 27154), (221, 27157), (228, 27196), (230, 27214), (235, 27229), (236, 27235), (239, 27244), (242, 27259), (253, 27304), (277, 27409), (287, 27445), (302, 27505), (304, 27514), (316, 27583),

Gene: Cannibal\_29 Start: 26205, Stop: 27638, Start Num: 25

Candidate Starts for Cannibal\_29:

(Start: 25 @26205 has 339 MA's), (35, 26262), (40, 26286), (45, 26310), (61, 26385), (101, 26601), (108, 26628), (110, 26637), (114, 26658), (119, 26679), (121, 26688), (133, 26751), (153, 26844), (163, 26901), (166, 26919), (198, 27051), (210, 27099), (219, 27141), (220, 27147), (221, 27150), (228, 27189), (235, 27222), (236, 27228), (239, 27237), (242, 27252), (253, 27297), (277, 27402), (287, 27438), (302, 27498), (304, 27507), (316, 27576),

Gene: Carthage\_27 Start: 25131, Stop: 26564, Start Num: 25

Candidate Starts for Carthage\_27:

(Start: 25 @25131 has 339 MA's), (35, 25188), (40, 25212), (45, 25236), (61, 25311), (101, 25527), (108, 25554), (110, 25563), (114, 25584), (119, 25605), (121, 25614), (133, 25677), (153, 25770), (163, 25827), (166, 25845), (198, 25977), (210, 26025), (219, 26067), (220, 26073), (221, 26076), (228, 26115), (235, 26148), (236, 26154), (239, 26163), (242, 26178), (253, 26223), (277, 26328), (287, 26364), (302, 26424), (304, 26433), (316, 26502),

Gene: Casbah\_28 Start: 25998, Stop: 27428, Start Num: 26

Candidate Starts for Casbah\_28:

(Start: 26 @25998 has 105 MA's), (35, 26055), (40, 26079), (41, 26088), (61, 26175), (89, 26325), (93, 26352), (110, 26427), (117, 26457), (121, 26478), (123, 26496), (136, 26550), (143, 26583), (167, 26712), (184, 26790), (186, 26802), (193, 26823), (197, 26838), (202, 26850), (219, 26931), (220, 26937), (230, 26997), (241, 27039), (247, 27057), (254, 27090), (265, 27138), (279, 27198), (283, 27213), (287, 27228), (288, 27231), (303, 27294), (316, 27366), (322, 27396),

Gene: Caspiboi\_28 Start: 25931, Stop: 27364, Start Num: 25

Candidate Starts for Caspiboi\_28:

(Start: 25 @25931 has 339 MA's), (35, 25988), (40, 26012), (45, 26036), (61, 26111), (108, 26354), (110, 26363), (114, 26384), (119, 26405), (121, 26414), (133, 26477), (153, 26570), (154, 26573), (163, 26627), (166, 26645), (198, 26777), (210, 26825), (219, 26867), (220, 26873), (221, 26876), (228, 26915), (230, 26933), (235, 26948), (236, 26954), (239, 26963), (242, 26978), (253, 27023), (277, 27128), (287, 27164), (302, 27224), (304, 27233), (309, 27260), (316, 27302), (321, 27323),

Gene: Caterpie\_26 Start: 24218, Stop: 25645, Start Num: 26

Candidate Starts for Caterpie\_26:

(Start: 26 @24218 has 105 MA's), (32, 24251), (40, 24299), (43, 24314), (44, 24320), (53, 24362), (63, 24404), (70, 24425), (77, 24467), (108, 24635), (109, 24641), (121, 24695), (131, 24746), (134, 24761), (136, 24767), (144, 24809), (158, 24890), (163, 24908), (165, 24917), (183, 24998), (186, 25019), (197, 25055), (200, 25061), (209, 25097), (219, 25148), (220, 25154), (221, 25157), (222, 25175), (230, 25214), (241, 25256), (244, 25265), (247, 25274), (254, 25307), (258, 25319), (264, 25349), (271, 25382), (282, 25424), (286, 25442), (287, 25445), (290, 25457), (298, 25493), (301, 25502), (302, 25505), (303, 25511), (316, 25583), (322, 25613),

Gene: Causa\_34 Start: 29341, Stop: 30771, Start Num: 26

Candidate Starts for Causa\_34:

(Start: 26 @29341 has 105 MA's), (31, 29365), (35, 29398), (52, 29476), (109, 29770), (110, 29773), (116, 29800), (131, 29875), (133, 29887), (134, 29890), (144, 29938), (153, 29977), (168, 30055), (170, 30067), (177, 30100), (183, 30121), (210, 30229), (211, 30232), (216, 30250), (235, 30355), (236, 30361), (253, 30430), (254, 30433), (256, 30439), (282, 30550), (287, 30571),

Gene: Cepens\_22 Start: 24746, Stop: 26182, Start Num: 27

Candidate Starts for Cepens\_22:

(Start: 27 @24746 has 38 MA's), (31, 24767), (32, 24776), (60, 24923), (63, 24932), (82, 25034), (86, 25052), (93, 25103), (99, 25133), (108, 25169), (110, 25178), (115, 25202), (117, 25208), (131, 25280), (163, 25442), (164, 25448), (166, 25460), (167, 25463), (172, 25487), (184, 25541), (186, 25553), (203, 25604), (206, 25622), (219, 25685), (220, 25691), (227, 25730), (228, 25733), (230, 25751), (241, 25793), (244, 25802), (247, 25811), (254, 25844), (269, 25904), (271, 25919), (279, 25952), (287, 25982), (300, 26036), (303, 26048), (315, 26117), (316, 26120), (322, 26150),

Gene: ChaChing\_29 Start: 26161, Stop: 27591, Start Num: 26

Candidate Starts for ChaChing\_29:

(Start: 26 @26161 has 105 MA's), (35, 26218), (40, 26242), (41, 26251), (61, 26338), (93, 26515), (108, 26581), (110, 26590), (117, 26620), (121, 26641), (123, 26659), (136, 26713), (167, 26875), (184, 26953), (186, 26965), (193, 26986), (197, 27001), (202, 27013), (219, 27094), (220, 27100), (229, 27148), (230, 27160), (241, 27202), (247, 27220), (254, 27253), (265, 27301), (279, 27361), (283, 27376), (287, 27391), (288, 27394), (316, 27529), (322, 27559),

Gene: Chaelin\_29 Start: 25919, Stop: 27352, Start Num: 25

Candidate Starts for Chaelin\_29:

(Start: 25 @25919 has 339 MA's), (35, 25976), (40, 26000), (45, 26024), (61, 26099), (101, 26315), (108, 26342), (110, 26351), (114, 26372), (119, 26393), (121, 26402), (133, 26465), (153, 26558), (154, 26561), (163, 26615), (166, 26633), (198, 26765), (210, 26813), (219, 26855), (220, 26861), (221, 26864), (228, 26903), (230, 26921), (235, 26936), (236, 26942), (239, 26951), (242, 26966), (253, 27011), (277, 27116), (287, 27152), (302, 27212), (304, 27221), (316, 27290),

Gene: Chah\_30 Start: 26239, Stop: 27672, Start Num: 25

Candidate Starts for Chah\_30:

(Start: 25 @26239 has 339 MA's), (35, 26296), (40, 26320), (45, 26344), (61, 26419), (101, 26635), (108, 26662), (110, 26671), (114, 26692), (119, 26713), (121, 26722), (133, 26785), (153, 26878), (163, 26935), (166, 26953), (198, 27085), (210, 27133), (219, 27175), (220, 27181), (221, 27184), (228, 27223), (235, 27256), (236, 27262), (239, 27271), (242, 27286), (253, 27331), (277, 27436), (287, 27472), (302, 27532), (304, 27541), (316, 27610),

Gene: Chalmers\_29 Start: 26953, Stop: 28383, Start Num: 26

Candidate Starts for Chalmers\_29:

(Start: 26 @26953 has 105 MA's), (35, 27010), (40, 27034), (41, 27043), (61, 27130), (93, 27307), (108, 27373), (110, 27382), (117, 27412), (121, 27433), (123, 27451), (136, 27505), (143, 27538), (145, 27556), (167, 27667), (184, 27745), (186, 27757), (193, 27778), (197, 27793), (202, 27805), (219, 27886), (220, 27892), (230, 27952), (241, 27994), (247, 28012), (254, 28045), (265, 28093), (279, 28153), (283, 28168), (287, 28183), (288, 28186), (316, 28321), (322, 28351),

Gene: Chandler\_29 Start: 26926, Stop: 28356, Start Num: 26

Candidate Starts for Chandler\_29:

(Start: 26 @26926 has 105 MA's), (35, 26983), (40, 27007), (41, 27016), (61, 27103), (89, 27253), (93, 27280), (110, 27355), (117, 27385), (121, 27406), (123, 27424), (136, 27478), (143, 27511), (167, 27640), (184, 27718), (186, 27730), (193, 27751), (197, 27766), (202, 27778), (219, 27859), (220, 27865), (229, 27913), (230, 27925), (241, 27967), (247, 27985), (254, 28018), (265, 28066), (279, 28126), (283, 28141), (287, 28156), (288, 28159), (303, 28222), (316, 28294), (322, 28324),

Gene: Charles1\_29 Start: 26207, Stop: 27640, Start Num: 25

Candidate Starts for Charles1\_29:

(Start: 25 @26207 has 339 MA's), (35, 26264), (40, 26288), (45, 26312), (61, 26387), (101, 26603), (108, 26630), (110, 26639), (114, 26660), (119, 26681), (121, 26690), (133, 26753), (153, 26846), (163, 26903), (166, 26921), (198, 27053), (210, 27101), (219, 27143), (220, 27149), (221, 27152), (228, 27191), (235, 27224), (236, 27230), (239, 27239), (242, 27254), (253, 27299), (277, 27404), (287, 27440), (302, 27500), (304, 27509), (316, 27578),

Gene: CharlieGBrown\_28 Start: 25796, Stop: 27229, Start Num: 25

Candidate Starts for CharlieGBrown\_28:

(Start: 25 @25796 has 339 MA's), (35, 25853), (40, 25877), (45, 25901), (61, 25976), (108, 26219), (110, 26228), (114, 26249), (119, 26270), (121, 26279), (133, 26342), (153, 26435), (154, 26438), (163, 26492), (166, 26510), (198, 26642), (210, 26690), (219, 26732), (220, 26738), (221, 26741), (228, 26780), (230, 26798), (235, 26813), (236, 26819), (239, 26828), (242, 26843), (253, 26888), (277, 26993), (287, 27029), (302, 27089), (304, 27098), (309, 27125), (316, 27167), (321, 27188),

Gene: CharlottesWeb\_25 Start: 23434, Stop: 24963, Start Num: 10

Candidate Starts for CharlottesWeb\_25:

(Start: 10 @23434 has 3 MA's), (14, 23467), (Start: 27 @23536 has 38 MA's), (59, 23698), (110, 23962), (115, 23986), (119, 24004), (121, 24013), (130, 24061), (136, 24085), (145, 24136), (163, 24226), (165, 24235), (167, 24247), (183, 24316), (186, 24337), (197, 24373), (218, 24460), (219, 24466), (220, 24472), (228, 24514), (235, 24547), (236, 24553), (239, 24562), (254, 24625), (279, 24733), (287, 24763), (315, 24898),

Gene: CheetO\_29 Start: 26221, Stop: 27654, Start Num: 25

Candidate Starts for CheetO\_29:

(Start: 25 @26221 has 339 MA's), (35, 26278), (40, 26302), (45, 26326), (61, 26401), (101, 26617), (108, 26644), (110, 26653), (114, 26674), (119, 26695), (121, 26704), (133, 26767), (153, 26860), (163, 26917), (166, 26935), (198, 27067), (210, 27115), (219, 27157), (220, 27163), (221, 27166), (228, 27205), (230, 27223), (235, 27238), (236, 27244), (239, 27253), (242, 27268), (253, 27313), (277, 27418), (287, 27454), (302, 27514), (304, 27523), (309, 27550), (316, 27592), (321, 27613),

Gene: Chentzyk\_28 Start: 26016, Stop: 27446, Start Num: 26

Candidate Starts for Chentzyk\_28:

(Start: 26 @26016 has 105 MA's), (35, 26073), (40, 26097), (41, 26106), (61, 26193), (89, 26343), (93, 26370), (110, 26445), (117, 26475), (121, 26496), (123, 26514), (136, 26568), (143, 26601), (167, 26730), (184, 26808), (186, 26820), (193, 26841), (197, 26856), (202, 26868), (219, 26949), (220, 26955), (229, 27003), (230, 27015), (241, 27057), (247, 27075), (254, 27108), (265, 27156), (279, 27216), (283, 27231), (287, 27246), (288, 27249), (316, 27384), (322, 27414),

Gene: Cher\_28 Start: 25944, Stop: 27377, Start Num: 25

Candidate Starts for Cher\_28:

(Start: 25 @25944 has 339 MA's), (35, 26001), (40, 26025), (45, 26049), (61, 26124), (101, 26340), (108, 26367), (110, 26376), (114, 26397), (119, 26418), (121, 26427), (133, 26490), (153, 26583), (163, 26640), (166, 26658), (198, 26790), (210, 26838), (219, 26880), (220, 26886), (221, 26889), (228, 26928), (235, 26961), (236, 26967), (239, 26976), (242, 26991), (253, 27036), (277, 27141), (287, 27177), (302, 27237), (304, 27246), (316, 27315),

Gene: Childish\_28 Start: 25947, Stop: 27380, Start Num: 25

Candidate Starts for Childish\_28:

(Start: 25 @25947 has 339 MA's), (35, 26004), (40, 26028), (45, 26052), (61, 26127), (101, 26343), (108, 26370), (110, 26379), (114, 26400), (119, 26421), (121, 26430), (133, 26493), (153, 26586), (163, 26643), (166, 26661), (198, 26793), (210, 26841), (219, 26883), (220, 26889), (221, 26892), (228, 26931), (235, 26964), (236, 26970), (239, 26979), (242, 26994), (253, 27039), (277, 27144), (287, 27180), (302, 27240), (304, 27249), (316, 27318),

Gene: Chipette\_30 Start: 26437, Stop: 27870, Start Num: 25

Candidate Starts for Chipette\_30:

(Start: 25 @26437 has 339 MA's), (35, 26494), (40, 26518), (45, 26542), (61, 26617), (101, 26833), (108, 26860), (110, 26869), (114, 26890), (119, 26911), (121, 26920), (133, 26983), (153, 27076), (163, 27133), (166, 27151), (198, 27283), (210, 27331), (219, 27373), (220, 27379), (221, 27382), (228, 27421), (235, 27454), (236, 27460), (239, 27469), (242, 27484), (253, 27529), (277, 27634), (287, 27670), (302, 27730), (304, 27739), (316, 27808),

Gene: Chorkpop\_29 Start: 25943, Stop: 27376, Start Num: 25

Candidate Starts for Chorkpop\_29:

(Start: 25 @25943 has 339 MA's), (35, 26000), (40, 26024), (45, 26048), (61, 26123), (101, 26339), (108, 26366), (110, 26375), (114, 26396), (119, 26417), (121, 26426), (133, 26489), (153, 26582), (163, 26639), (166, 26657), (198, 26789), (210, 26837), (219, 26879), (220, 26885), (221, 26888), (228, 26927), (235, 26960), (236, 26966), (239, 26975), (242, 26990), (253, 27035), (277, 27140), (287, 27176), (302, 27236), (304, 27245), (316, 27314),

Gene: ChrisnMich\_25 Start: 25425, Stop: 26858, Start Num: 25

Candidate Starts for ChrisnMich\_25:

(Start: 25 @25425 has 339 MA's), (32, 25458), (35, 25482), (36, 25485), (41, 25515), (51, 25557), (53, 25563), (61, 25605), (70, 25638), (77, 25680), (79, 25707), (101, 25821), (109, 25854), (110, 25857), (111, 25863), (119, 25899), (121, 25908), (131, 25959), (139, 26001), (156, 26076), (160, 26112), (165, 26130), (166, 26139), (167, 26142), (171, 26163), (184, 26220), (186, 26232), (200, 26274), (202, 26280), (219, 26361), (220, 26367), (223, 26391), (228, 26409), (235, 26442), (239, 26457), (241, 26469), (254, 26520), (258, 26532), (286, 26655), (287, 26658), (303, 26724), (307, 26745), (315, 26793), (324, 26832), (328, 26853),

Gene: Chuni\_28 Start: 26237, Stop: 27670, Start Num: 25

Candidate Starts for Chuni\_28:

(Start: 25 @26237 has 339 MA's), (35, 26294), (40, 26318), (45, 26342), (61, 26417), (108, 26660), (110, 26669), (114, 26690), (119, 26711), (121, 26720), (133, 26783), (153, 26876), (154, 26879), (163, 26933), (166, 26951), (198, 27083), (210, 27131), (219, 27173), (220, 27179), (221, 27182), (228, 27221), (230, 27239), (235, 27254), (236, 27260), (239, 27269), (242, 27284), (253, 27329), (277, 27434), (287, 27470), (302, 27530), (304, 27539), (309, 27566), (316, 27608), (321, 27629),

Gene: Chunky\_29 Start: 26227, Stop: 27660, Start Num: 25

Candidate Starts for Chunky\_29:

(Start: 25 @26227 has 339 MA's), (35, 26284), (40, 26308), (45, 26332), (61, 26407), (101, 26623), (108, 26650), (110, 26659), (114, 26680), (119, 26701), (121, 26710), (133, 26773), (153, 26866), (163, 26923), (166, 26941), (198, 27073), (210, 27121), (219, 27163), (220, 27169), (221, 27172), (228, 27211), (235, 27244), (236, 27250), (239, 27259), (242, 27274), (253, 27319), (277, 27424), (287, 27460), (302, 27520), (304, 27529), (316, 27598),

Gene: Chute\_28 Start: 26262, Stop: 27695, Start Num: 25

Candidate Starts for Chute\_28:

(Start: 25 @26262 has 339 MA's), (35, 26319), (40, 26343), (45, 26367), (61, 26442), (101, 26658), (108, 26685), (110, 26694), (114, 26715), (119, 26736), (121, 26745), (133, 26808), (153, 26901), (166, 26976), (198, 27108), (210, 27156), (219, 27198), (220, 27204), (221, 27207), (228, 27246), (230, 27264), (235, 27279), (236, 27285), (239, 27294), (242, 27309), (253, 27354), (277, 27459), (287, 27495), (302, 27555), (304, 27564), (309, 27591), (316, 27633), (321, 27654),

Gene: Clawz\_57 Start: 35966, Stop: 37252, Start Num: 26

Candidate Starts for Clawz\_57:

(Start: 26 @35966 has 105 MA's), (44, 36068), (83, 36203), (89, 36245), (94, 36272), (130, 36437), (139, 36476), (155, 36542), (165, 36599), (180, 36668), (181, 36671), (190, 36713), (212, 36785), (239, 36878), (244, 36899), (248, 36911), (260, 36959), (272, 37007), (273, 37010), (281, 37040), (284, 37055), (301, 37115), (310, 37151), (320, 37202), (325, 37223), (327, 37238),

Gene: CloverMinnie\_27 Start: 25424, Stop: 26950, Start Num: 9

Candidate Starts for CloverMinnie\_27:

(Start: 9 @25424 has 19 MA's), (14, 25457), (16, 25481), (18, 25484), (Start: 27 @25526 has 38 MA's), (Start: 28 @25529 has 1 MA's), (93, 25874), (108, 25940), (117, 25979), (131, 26051), (153, 26156), (163, 26213), (168, 26237), (183, 26303), (184, 26312), (186, 26324), (188, 26327), (195, 26351), (200, 26366), (205, 26387), (219, 26453), (220, 26459), (227, 26498), (228, 26501), (235, 26534), (241, 26561), (244, 26570), (247, 26579), (258, 26624), (265, 26660), (269, 26672), (279, 26720), (302, 26810), (315, 26885), (322, 26918),

Gene: Cobra\_29 Start: 26227, Stop: 27660, Start Num: 25

Candidate Starts for Cobra\_29:

(Start: 25 @26227 has 339 MA's), (35, 26284), (40, 26308), (45, 26332), (61, 26407), (108, 26650), (110, 26659), (114, 26680), (119, 26701), (121, 26710), (133, 26773), (153, 26866), (154, 26869), (163, 26923), (166, 26941), (198, 27073), (210, 27121), (219, 27163), (220, 27169), (221, 27172), (228, 27211), (230, 27229), (235, 27244), (236, 27250), (239, 27259), (242, 27274), (253, 27319), (277, 27424), (287, 27460), (302, 27520), (304, 27529), (309, 27556), (316, 27598), (321, 27619),

Gene: Coffee\_30 Start: 27592, Stop: 29028, Start Num: 26

Candidate Starts for Coffee\_30:

(Start: 26 @27592 has 105 MA's), (32, 27625), (35, 27649), (36, 27652), (40, 27673), (44, 27694), (51, 27727), (60, 27772), (63, 27781), (77, 27844), (109, 28024), (110, 28027), (114, 28048), (120, 28072), (121, 28078), (123, 28096), (130, 28126), (131, 28129), (134, 28144), (136, 28150), (150, 28219), (158, 28273), (163, 28291), (166, 28309), (167, 28312), (172, 28336), (184, 28390), (195, 28429), (201, 28447), (206, 28468), (218, 28525), (219, 28531), (221, 28540), (230, 28597), (244, 28648), (247, 28657), (254, 28690), (257, 28699), (271, 28765), (282, 28807), (287, 28828), (290, 28840), (292, 28858), (304, 28897), (315, 28963), (316, 28966), (322, 28996),

Gene: Colbert\_29 Start: 26280, Stop: 27713, Start Num: 25

Candidate Starts for Colbert\_29:

(Start: 25 @26280 has 339 MA's), (35, 26337), (40, 26361), (45, 26385), (61, 26460), (101, 26676), (108, 26703), (110, 26712), (114, 26733), (119, 26754), (121, 26763), (133, 26826), (153, 26919), (163, 26976), (166, 26994), (198, 27126), (210, 27174), (219, 27216), (220, 27222), (221, 27225),

(228, 27264), (235, 27297), (236, 27303), (239, 27312), (242, 27327), (253, 27372), (277, 27477), (287, 27513), (302, 27573), (304, 27582), (316, 27651),

Gene: ColdSoup\_58 Start: 36171, Stop: 37457, Start Num: 26

Candidate Starts for ColdSoup\_58:

(Start: 26 @36171 has 105 MA's), (29, 36189), (83, 36408), (89, 36450), (118, 36582), (148, 36723), (179, 36870), (192, 36927), (244, 37104), (257, 37155), (272, 37212), (273, 37215), (281, 37245), (284, 37260), (295, 37302), (300, 37317), (325, 37428), (327, 37443),

Gene: Coldpizza\_28 Start: 27947, Stop: 29473, Start Num: 10

Candidate Starts for Coldpizza\_28:

(Start: 10 @27947 has 3 MA's), (33, 28082), (62, 28226), (86, 28343), (108, 28460), (109, 28466), (110, 28469), (119, 28511), (121, 28520), (134, 28586), (158, 28715), (167, 28754), (183, 28826), (186, 28847), (202, 28895), (216, 28955), (219, 28976), (220, 28982), (221, 28985), (244, 29093), (247, 29102), (256, 29141), (277, 29237), (302, 29333), (322, 29441),

Gene: Coletti\_29 Start: 26262, Stop: 27695, Start Num: 25

Candidate Starts for Coletti\_29:

(Start: 25 @26262 has 339 MA's), (35, 26319), (40, 26343), (45, 26367), (61, 26442), (101, 26658), (108, 26685), (110, 26694), (114, 26715), (119, 26736), (121, 26745), (133, 26808), (153, 26901), (166, 26976), (198, 27108), (210, 27156), (219, 27198), (220, 27204), (221, 27207), (228, 27246), (230, 27264), (235, 27279), (236, 27285), (239, 27294), (242, 27309), (253, 27354), (277, 27459), (287, 27495), (302, 27555), (304, 27564), (309, 27591), (316, 27633), (321, 27654),

Gene: Compostia\_30 Start: 26576, Stop: 28006, Start Num: 26

Candidate Starts for Compostia\_30:

(Start: 26 @26576 has 105 MA's), (35, 26633), (40, 26657), (41, 26666), (61, 26753), (89, 26903), (93, 26930), (110, 27005), (117, 27035), (121, 27056), (123, 27074), (136, 27128), (143, 27161), (167, 27290), (184, 27368), (186, 27380), (193, 27401), (197, 27416), (202, 27428), (219, 27509), (220, 27515), (229, 27563), (230, 27575), (241, 27617), (247, 27635), (254, 27668), (265, 27716), (279, 27776), (283, 27791), (287, 27806), (288, 27809), (316, 27944), (322, 27974),

Gene: Cooper\_26 Start: 25647, Stop: 27080, Start Num: 25

Candidate Starts for Cooper\_26:

(Start: 25 @25647 has 339 MA's), (32, 25680), (35, 25704), (36, 25707), (41, 25737), (53, 25785), (61, 25827), (70, 25860), (77, 25902), (79, 25929), (101, 26043), (108, 26070), (109, 26076), (111, 26085), (117, 26109), (119, 26121), (121, 26130), (126, 26160), (160, 26334), (165, 26352), (166, 26361), (167, 26364), (171, 26385), (184, 26442), (186, 26454), (200, 26496), (202, 26502), (219, 26583), (220, 26589), (223, 26613), (228, 26631), (235, 26664), (241, 26691), (246, 26706), (254, 26742), (258, 26754), (277, 26844), (282, 26859), (287, 26880), (303, 26946), (307, 26967), (315, 27015), (316, 27018), (324, 27054), (328, 27075),

Gene: Cornbread\_28 Start: 25943, Stop: 27376, Start Num: 25

Candidate Starts for Cornbread\_28:

(Start: 25 @25943 has 339 MA's), (35, 26000), (40, 26024), (45, 26048), (61, 26123), (108, 26366), (110, 26375), (114, 26396), (119, 26417), (121, 26426), (133, 26489), (153, 26582), (163, 26639), (166, 26657), (198, 26789), (210, 26837), (219, 26879), (220, 26885), (221, 26888), (228, 26927), (230, 26945), (235, 26960), (236, 26966), (239, 26975), (242, 26990), (253, 27035), (277, 27140), (287, 27176), (302, 27236), (304, 27245), (309, 27272), (316, 27314), (321, 27335),

Gene: Cornobble\_28 Start: 25779, Stop: 27212, Start Num: 25

Candidate Starts for Cornobble\_28:

(Start: 25 @25779 has 339 MA's), (35, 25836), (40, 25860), (45, 25884), (61, 25959), (101, 26175), (108, 26202), (110, 26211), (114, 26232), (119, 26253), (121, 26262), (133, 26325), (153, 26418), (163, 26475), (166, 26493), (198, 26625), (210, 26673), (219, 26715), (220, 26721), (221, 26724), (228, 26763), (235, 26796), (236, 26802), (239, 26811), (242, 26826), (253, 26871), (277, 26976), (287, 27012), (302, 27072), (304, 27081), (316, 27150),

Gene: Corofin\_29 Start: 26171, Stop: 27601, Start Num: 26

Candidate Starts for Corofin\_29:

(Start: 26 @26171 has 105 MA's), (35, 26228), (40, 26252), (41, 26261), (61, 26348), (89, 26498), (93, 26525), (110, 26600), (117, 26630), (121, 26651), (123, 26669), (136, 26723), (143, 26756), (167, 26885), (184, 26963), (186, 26975), (193, 26996), (197, 27011), (202, 27023), (219, 27104), (220, 27110), (229, 27158), (230, 27170), (241, 27212), (247, 27230), (254, 27263), (265, 27311), (279, 27371), (283, 27386), (287, 27401), (288, 27404), (303, 27467), (316, 27539), (322, 27569),

Gene: Cosmolli16\_28 Start: 25941, Stop: 27374, Start Num: 25

Candidate Starts for Cosmolli16\_28:

(Start: 25 @25941 has 339 MA's), (35, 25998), (40, 26022), (45, 26046), (61, 26121), (101, 26337), (108, 26364), (110, 26373), (114, 26394), (119, 26415), (121, 26424), (133, 26487), (153, 26580), (163, 26637), (166, 26655), (198, 26787), (210, 26835), (219, 26877), (220, 26883), (221, 26886), (228, 26925), (235, 26958), (236, 26964), (239, 26973), (242, 26988), (253, 27033), (277, 27138), (287, 27174), (302, 27234), (304, 27243), (316, 27312),

Gene: Craff\_29 Start: 26225, Stop: 27658, Start Num: 25

Candidate Starts for Craff\_29:

(Start: 25 @26225 has 339 MA's), (35, 26282), (40, 26306), (45, 26330), (61, 26405), (101, 26621), (108, 26648), (110, 26657), (114, 26678), (119, 26699), (121, 26708), (133, 26771), (153, 26864), (163, 26921), (166, 26939), (198, 27071), (210, 27119), (219, 27161), (220, 27167), (221, 27170), (228, 27209), (235, 27242), (236, 27248), (239, 27257), (242, 27272), (253, 27317), (277, 27422), (287, 27458), (302, 27518), (304, 27527), (316, 27596),

Gene: Crownjwl\_29 Start: 25994, Stop: 27427, Start Num: 25

Candidate Starts for Crownjwl\_29:

(Start: 25 @25994 has 339 MA's), (35, 26051), (40, 26075), (45, 26099), (61, 26174), (101, 26390), (108, 26417), (110, 26426), (114, 26447), (119, 26468), (121, 26477), (133, 26540), (153, 26633), (163, 26690), (166, 26708), (198, 26840), (210, 26888), (219, 26930), (220, 26936), (221, 26939), (228, 26978), (235, 27011), (236, 27017), (239, 27026), (242, 27041), (253, 27086), (277, 27191), (287, 27227), (302, 27287), (304, 27296), (316, 27365),

Gene: D12\_22 Start: 24760, Stop: 26196, Start Num: 27

Candidate Starts for D12\_22:

(Start: 27 @24760 has 38 MA's), (31, 24781), (32, 24790), (60, 24937), (63, 24946), (82, 25048), (86, 25066), (93, 25117), (99, 25147), (108, 25183), (110, 25192), (115, 25216), (117, 25222), (131, 25294), (163, 25456), (164, 25462), (166, 25474), (167, 25477), (184, 25555), (186, 25567), (197, 25603), (203, 25618), (206, 25636), (219, 25699), (220, 25705), (222, 25726), (227, 25744), (228, 25747), (230, 25765), (240, 25798), (241, 25807), (244, 25816), (247, 25825), (254, 25858), (269, 25918), (271, 25933), (279, 25966), (287, 25996), (300, 26050), (315, 26131), (316, 26134), (322, 26164),

Gene: DaddyDaniels\_29 Start: 25916, Stop: 27349, Start Num: 25

Candidate Starts for DaddyDaniels\_29:

(Start: 25 @25916 has 339 MA's), (35, 25973), (40, 25997), (45, 26021), (61, 26096), (101, 26312), (108, 26339), (110, 26348), (114, 26369), (119, 26390), (121, 26399), (133, 26462), (153, 26555), (166, 26630), (198, 26762), (210, 26810), (219, 26852), (220, 26858), (221, 26861), (228, 26900),

(230, 26918), (235, 26933), (236, 26939), (239, 26948), (242, 26963), (253, 27008), (277, 27113), (287, 27149), (302, 27209), (304, 27218), (309, 27245), (316, 27287), (321, 27308),

Gene: Daffy\_29 Start: 25947, Stop: 27380, Start Num: 25

Candidate Starts for Daffy\_29:

(Start: 25 @25947 has 339 MA's), (35, 26004), (40, 26028), (45, 26052), (61, 26127), (101, 26343), (108, 26370), (110, 26379), (114, 26400), (119, 26421), (121, 26430), (133, 26493), (153, 26586), (163, 26643), (166, 26661), (198, 26793), (210, 26841), (219, 26883), (220, 26889), (221, 26892), (228, 26931), (235, 26964), (236, 26970), (239, 26979), (242, 26994), (253, 27039), (277, 27144), (287, 27180), (302, 27240), (304, 27249), (316, 27318),

Gene: Daisy\_29 Start: 26173, Stop: 27603, Start Num: 26

Candidate Starts for Daisy\_29:

(Start: 26 @26173 has 105 MA's), (35, 26230), (40, 26254), (41, 26263), (61, 26350), (89, 26500), (93, 26527), (110, 26602), (117, 26632), (121, 26653), (123, 26671), (136, 26725), (143, 26758), (167, 26887), (184, 26965), (186, 26977), (193, 26998), (197, 27013), (202, 27025), (219, 27106), (220, 27112), (229, 27160), (230, 27172), (241, 27214), (247, 27232), (254, 27265), (265, 27313), (279, 27373), (283, 27388), (287, 27403), (288, 27406), (316, 27541), (322, 27571),

Gene: Daka\_29 Start: 26221, Stop: 27654, Start Num: 25

Candidate Starts for Daka\_29:

(Start: 25 @26221 has 339 MA's), (35, 26278), (40, 26302), (45, 26326), (61, 26401), (101, 26617), (108, 26644), (110, 26653), (114, 26674), (119, 26695), (121, 26704), (133, 26767), (153, 26860), (163, 26917), (166, 26935), (198, 27067), (210, 27115), (219, 27157), (220, 27163), (221, 27166), (228, 27205), (230, 27223), (235, 27238), (236, 27244), (239, 27253), (242, 27268), (253, 27313), (277, 27418), (287, 27454), (302, 27514), (304, 27523), (316, 27592),

Gene: Dati\_29 Start: 25941, Stop: 27374, Start Num: 25

Candidate Starts for Dati\_29:

(Start: 25 @25941 has 339 MA's), (35, 25998), (40, 26022), (45, 26046), (61, 26121), (108, 26364), (110, 26373), (114, 26394), (119, 26415), (121, 26424), (133, 26487), (153, 26580), (163, 26637), (166, 26655), (210, 26835), (219, 26877), (220, 26883), (221, 26886), (228, 26925), (230, 26943), (235, 26958), (236, 26964), (239, 26973), (242, 26988), (253, 27033), (277, 27138), (287, 27174), (302, 27234), (304, 27243), (316, 27312),

Gene: Deenasa\_29 Start: 26909, Stop: 28339, Start Num: 26

Candidate Starts for Deenasa\_29:

(Start: 26 @26909 has 105 MA's), (35, 26966), (40, 26990), (41, 26999), (61, 27086), (89, 27236), (93, 27263), (110, 27338), (117, 27368), (121, 27389), (123, 27407), (136, 27461), (143, 27494), (167, 27623), (184, 27701), (186, 27713), (193, 27734), (197, 27749), (202, 27761), (219, 27842), (220, 27848), (229, 27896), (230, 27908), (241, 27950), (247, 27968), (254, 28001), (265, 28049), (279, 28109), (283, 28124), (287, 28139), (288, 28142), (303, 28205), (316, 28277), (322, 28307),

Gene: DelRivs\_28 Start: 25942, Stop: 27375, Start Num: 25

Candidate Starts for DelRivs\_28:

(Start: 25 @25942 has 339 MA's), (35, 25999), (40, 26023), (45, 26047), (61, 26122), (101, 26338), (108, 26365), (110, 26374), (114, 26395), (119, 26416), (121, 26425), (133, 26488), (153, 26581), (154, 26584), (163, 26638), (166, 26656), (198, 26788), (210, 26836), (219, 26878), (220, 26884), (221, 26887), (228, 26926), (235, 26959), (236, 26965), (239, 26974), (242, 26989), (253, 27034), (277, 27139), (287, 27175), (302, 27235), (304, 27244), (316, 27313),

Gene: Derpp\_28 Start: 25786, Stop: 27219, Start Num: 25

Candidate Starts for Derpp\_28:

(Start: 25 @25786 has 339 MA's), (35, 25843), (40, 25867), (45, 25891), (61, 25966), (108, 26209), (110, 26218), (114, 26239), (119, 26260), (121, 26269), (133, 26332), (153, 26425), (154, 26428), (163, 26482), (166, 26500), (198, 26632), (210, 26680), (219, 26722), (220, 26728), (221, 26731), (228, 26770), (230, 26788), (235, 26803), (236, 26809), (239, 26818), (242, 26833), (253, 26878), (277, 26983), (287, 27019), (302, 27079), (304, 27088), (309, 27115), (316, 27157), (321, 27178),

Gene: Devonte\_29 Start: 26137, Stop: 27567, Start Num: 26

Candidate Starts for Devonte\_29:

(Start: 26 @26137 has 105 MA's), (35, 26194), (40, 26218), (41, 26227), (61, 26314), (89, 26464), (93, 26491), (110, 26566), (117, 26596), (121, 26617), (123, 26635), (136, 26689), (143, 26722), (167, 26851), (184, 26929), (186, 26941), (193, 26962), (197, 26977), (202, 26989), (219, 27070), (220, 27076), (229, 27124), (230, 27136), (241, 27178), (247, 27196), (254, 27229), (265, 27277), (279, 27337), (283, 27352), (287, 27367), (288, 27370), (303, 27433), (316, 27505), (322, 27535),

Gene: Dice\_28 Start: 25921, Stop: 27354, Start Num: 25

Candidate Starts for Dice\_28:

(Start: 25 @25921 has 339 MA's), (35, 25978), (40, 26002), (45, 26026), (61, 26101), (101, 26317), (108, 26344), (110, 26353), (114, 26374), (119, 26395), (121, 26404), (133, 26467), (153, 26560), (163, 26617), (166, 26635), (198, 26767), (210, 26815), (219, 26857), (220, 26863), (221, 26866), (228, 26905), (235, 26938), (236, 26944), (239, 26953), (242, 26968), (253, 27013), (277, 27118), (287, 27154), (302, 27214), (304, 27223), (316, 27292),

Gene: DigitDog\_28 Start: 26052, Stop: 27485, Start Num: 25

Candidate Starts for DigitDog\_28:

(Start: 25 @26052 has 339 MA's), (44, 26154), (76, 26304), (79, 26334), (85, 26352), (91, 26394), (110, 26484), (111, 26490), (119, 26526), (121, 26535), (135, 26604), (167, 26769), (202, 26907), (206, 26925), (219, 26988), (244, 27105), (246, 27111), (279, 27255), (290, 27297), (293, 27318), (322, 27453), (324, 27459),

Gene: Dingo\_29 Start: 26204, Stop: 27637, Start Num: 25

Candidate Starts for Dingo\_29:

(Start: 25 @26204 has 339 MA's), (35, 26261), (40, 26285), (45, 26309), (61, 26384), (101, 26600), (108, 26627), (110, 26636), (114, 26657), (119, 26678), (121, 26687), (133, 26750), (153, 26843), (163, 26900), (166, 26918), (198, 27050), (210, 27098), (219, 27140), (220, 27146), (221, 27149), (228, 27188), (235, 27221), (236, 27227), (239, 27236), (242, 27251), (253, 27296), (277, 27401), (287, 27437), (302, 27497), (304, 27506), (316, 27575),

Gene: Dione\_28 Start: 25926, Stop: 27359, Start Num: 25

Candidate Starts for Dione\_28:

(Start: 25 @25926 has 339 MA's), (35, 25983), (40, 26007), (45, 26031), (61, 26106), (101, 26322), (108, 26349), (110, 26358), (114, 26379), (119, 26400), (121, 26409), (133, 26472), (153, 26565), (163, 26622), (166, 26640), (198, 26772), (210, 26820), (219, 26862), (220, 26868), (221, 26871), (228, 26910), (235, 26943), (236, 26949), (239, 26958), (242, 26973), (253, 27018), (277, 27123), (287, 27159), (302, 27219), (304, 27228), (316, 27297),

Gene: DirtJuice\_29 Start: 26210, Stop: 27643, Start Num: 25

Candidate Starts for DirtJuice\_29:

(Start: 25 @26210 has 339 MA's), (35, 26267), (40, 26291), (45, 26315), (61, 26390), (101, 26606), (108, 26633), (110, 26642), (114, 26663), (119, 26684), (121, 26693), (133, 26756), (153, 26849), (163, 26906), (166, 26924), (198, 27056), (210, 27104), (219, 27146), (220, 27152), (221, 27155), (228, 27194), (230, 27212), (235, 27227), (236, 27233), (239, 27242), (242, 27257), (253, 27302), (277, 27407), (287, 27443), (302, 27503), (304, 27512), (316, 27581),

Gene: Doddsville\_29 Start: 25940, Stop: 27373, Start Num: 25

Candidate Starts for Doddsville\_29:

(Start: 25 @25940 has 339 MA's), (35, 25997), (40, 26021), (45, 26045), (61, 26120), (108, 26363), (110, 26372), (114, 26393), (119, 26414), (121, 26423), (133, 26486), (153, 26579), (154, 26582), (163, 26636), (166, 26654), (198, 26786), (210, 26834), (219, 26876), (220, 26882), (221, 26885), (228, 26924), (230, 26942), (235, 26957), (236, 26963), (239, 26972), (242, 26987), (253, 27032), (277, 27137), (287, 27173), (302, 27233), (304, 27242), (309, 27269), (316, 27311), (321, 27332),

Gene: DoesntMatter\_29 Start: 26206, Stop: 27639, Start Num: 25

Candidate Starts for DoesntMatter\_29:

(Start: 25 @26206 has 339 MA's), (35, 26263), (40, 26287), (45, 26311), (61, 26386), (101, 26602), (108, 26629), (110, 26638), (114, 26659), (119, 26680), (121, 26689), (133, 26752), (153, 26845), (163, 26902), (166, 26920), (198, 27052), (210, 27100), (219, 27142), (220, 27148), (221, 27151), (228, 27190), (235, 27223), (236, 27229), (239, 27238), (242, 27253), (253, 27298), (277, 27403), (287, 27439), (302, 27499), (304, 27508), (316, 27577),

Gene: DogYard\_37 Start: 26311, Stop: 27519, Start Num: 27

Candidate Starts for DogYard\_37:

(Start: 27 @26311 has 38 MA's), (32, 26341), (37, 26377), (89, 26572), (104, 26638), (105, 26641), (112, 26674), (113, 26677), (114, 26686), (118, 26704), (129, 26746), (134, 26764), (148, 26827), (155, 26851), (159, 26881), (165, 26893), (169, 26917), (180, 26962), (190, 27010), (199, 27037), (243, 27175), (244, 27178), (252, 27211), (280, 27310), (295, 27370), (313, 27451), (318, 27466), (323, 27487), (325, 27493),

Gene: DolOn\_30 Start: 26450, Stop: 27883, Start Num: 25

Candidate Starts for DolOn\_30:

(Start: 25 @26450 has 339 MA's), (35, 26507), (40, 26531), (45, 26555), (61, 26630), (101, 26846), (108, 26873), (110, 26882), (114, 26903), (119, 26924), (121, 26933), (133, 26996), (153, 27089), (163, 27146), (166, 27164), (198, 27296), (210, 27344), (219, 27386), (220, 27392), (221, 27395), (228, 27434), (235, 27467), (236, 27473), (239, 27482), (242, 27497), (253, 27542), (277, 27647), (287, 27683), (302, 27743), (304, 27752), (316, 27821),

Gene: DonSanchon\_28 Start: 25920, Stop: 27353, Start Num: 25

Candidate Starts for DonSanchon\_28:

(Start: 25 @25920 has 339 MA's), (35, 25977), (40, 26001), (45, 26025), (61, 26100), (101, 26316), (108, 26343), (110, 26352), (114, 26373), (119, 26394), (121, 26403), (133, 26466), (153, 26559), (163, 26616), (166, 26634), (198, 26766), (210, 26814), (219, 26856), (220, 26862), (221, 26865), (228, 26904), (235, 26937), (236, 26943), (239, 26952), (242, 26967), (253, 27012), (277, 27117), (287, 27153), (302, 27213), (304, 27222), (316, 27291),

Gene: DonTron\_57 Start: 36212, Stop: 37498, Start Num: 26

Candidate Starts for DonTron\_57:

(Start: 26 @36212 has 105 MA's), (29, 36230), (83, 36449), (89, 36491), (118, 36623), (130, 36683), (148, 36764), (179, 36911), (192, 36968), (244, 37145), (257, 37196), (272, 37253), (273, 37256), (281, 37286), (284, 37301), (295, 37343), (300, 37358), (325, 37469), (327, 37484),

Gene: Donny\_28 Start: 26463, Stop: 27896, Start Num: 25

Candidate Starts for Donny\_28:

(13, 26397), (Start: 25 @26463 has 339 MA's), (43, 26559), (44, 26565), (56, 26616), (76, 26715), (79, 26745), (92, 26808), (110, 26895), (111, 26901), (119, 26937), (121, 26946), (131, 26997), (165, 27168), (167, 27180), (184, 27258), (202, 27318), (206, 27336), (219, 27399), (244, 27516), (246, 27522), (279, 27666), (290, 27708), (322, 27864), (324, 27870),

Gene: Dori\_25 Start: 23120, Stop: 24547, Start Num: 26

Candidate Starts for Dori\_25:

(Start: 26 @23120 has 105 MA's), (32, 23153), (40, 23201), (43, 23216), (44, 23222), (53, 23264), (63, 23306), (70, 23327), (77, 23369), (108, 23537), (109, 23543), (121, 23597), (131, 23648), (134, 23663), (136, 23669), (144, 23711), (158, 23792), (163, 23810), (165, 23819), (183, 23900), (186, 23921), (197, 23957), (200, 23963), (209, 23999), (219, 24050), (220, 24056), (221, 24059), (222, 24077), (227, 24095), (230, 24116), (244, 24167), (247, 24176), (254, 24209), (271, 24284), (287, 24347), (290, 24359), (316, 24485), (322, 24515),

Gene: DuchessDung\_27 Start: 25077, Stop: 26510, Start Num: 25

Candidate Starts for DuchessDung\_27:

(Start: 25 @25077 has 339 MA's), (35, 25134), (40, 25158), (45, 25182), (61, 25257), (108, 25500), (110, 25509), (114, 25530), (119, 25551), (121, 25560), (133, 25623), (153, 25716), (154, 25719), (163, 25773), (166, 25791), (198, 25923), (210, 25971), (219, 26013), (220, 26019), (221, 26022), (228, 26061), (230, 26079), (235, 26094), (236, 26100), (239, 26109), (242, 26124), (253, 26169), (277, 26274), (287, 26310), (302, 26370), (304, 26379), (309, 26406), (316, 26448), (321, 26469),

Gene: Duggie\_28 Start: 25942, Stop: 27375, Start Num: 25

Candidate Starts for Duggie\_28:

(Start: 25 @25942 has 339 MA's), (35, 25999), (40, 26023), (45, 26047), (61, 26122), (101, 26338), (108, 26365), (110, 26374), (114, 26395), (119, 26416), (121, 26425), (133, 26488), (153, 26581), (166, 26656), (198, 26788), (210, 26836), (219, 26878), (220, 26884), (221, 26887), (228, 26926), (230, 26944), (235, 26959), (236, 26965), (239, 26974), (242, 26989), (253, 27034), (277, 27139), (287, 27175), (302, 27235), (304, 27244), (309, 27271), (316, 27313), (321, 27334),

Gene: Durga\_29 Start: 26239, Stop: 27672, Start Num: 25

Candidate Starts for Durga\_29:

(Start: 25 @26239 has 339 MA's), (35, 26296), (40, 26320), (45, 26344), (61, 26419), (108, 26662), (110, 26671), (114, 26692), (119, 26713), (121, 26722), (133, 26785), (153, 26878), (154, 26881), (163, 26935), (166, 26953), (198, 27085), (210, 27133), (219, 27175), (220, 27181), (221, 27184), (228, 27223), (230, 27241), (235, 27256), (236, 27262), (239, 27271), (242, 27286), (253, 27331), (277, 27436), (287, 27472), (302, 27532), (304, 27541), (309, 27568), (316, 27610), (321, 27631),

Gene: Eaglehorse\_30 Start: 27516, Stop: 28952, Start Num: 26

Candidate Starts for Eaglehorse\_30:

(Start: 26 @27516 has 105 MA's), (32, 27549), (35, 27573), (36, 27576), (40, 27597), (44, 27618), (51, 27651), (60, 27696), (63, 27705), (77, 27768), (109, 27948), (110, 27951), (114, 27972), (120, 27996), (121, 28002), (123, 28020), (130, 28050), (131, 28053), (134, 28068), (136, 28074), (150, 28143), (158, 28197), (163, 28215), (166, 28233), (167, 28236), (172, 28260), (184, 28314), (195, 28353), (201, 28371), (206, 28392), (218, 28449), (219, 28455), (221, 28464), (230, 28521), (244, 28572), (247, 28581), (254, 28614), (257, 28623), (271, 28689), (282, 28731), (287, 28752), (290, 28764), (292, 28782), (304, 28821), (315, 28887), (316, 28890), (322, 28920),

Gene: EastView9101\_27 Start: 26113, Stop: 27546, Start Num: 25

Candidate Starts for EastView9101\_27:

(13, 26047), (Start: 25 @26113 has 339 MA's), (43, 26209), (44, 26215), (56, 26266), (76, 26365), (79, 26395), (92, 26458), (110, 26545), (111, 26551), (119, 26587), (121, 26596), (131, 26647), (163, 26809), (165, 26818), (167, 26830), (184, 26908), (189, 26926), (202, 26968), (219, 27049), (244, 27166), (246, 27172), (279, 27316), (290, 27358), (322, 27514), (324, 27520),

Gene: ElvisPhasley\_29 Start: 26258, Stop: 27691, Start Num: 25

Candidate Starts for ElvisPhasley\_29:

(Start: 25 @26258 has 339 MA's), (35, 26315), (40, 26339), (45, 26363), (61, 26438), (108, 26681), (110, 26690), (114, 26711), (119, 26732), (121, 26741), (133, 26804), (153, 26897), (163, 26954), (166, 26972), (210, 27152), (219, 27194), (220, 27200), (221, 27203), (228, 27242), (230, 27260), (235, 27275), (236, 27281), (239, 27290), (242, 27305), (253, 27350), (277, 27455), (287, 27491), (302, 27551), (304, 27560), (309, 27587), (316, 27629), (321, 27650),

Gene: EmGer13\_28 Start: 25778, Stop: 27211, Start Num: 25

Candidate Starts for EmGer13\_28:

(Start: 25 @25778 has 339 MA's), (35, 25835), (40, 25859), (45, 25883), (61, 25958), (101, 26174), (108, 26201), (110, 26210), (114, 26231), (119, 26252), (121, 26261), (133, 26324), (153, 26417), (163, 26474), (166, 26492), (198, 26624), (210, 26672), (219, 26714), (220, 26720), (221, 26723), (228, 26762), (235, 26795), (236, 26801), (239, 26810), (242, 26825), (253, 26870), (277, 26975), (287, 27011), (302, 27071), (304, 27080), (316, 27149),

Gene: Emiris\_29 Start: 26210, Stop: 27643, Start Num: 25

Candidate Starts for Emiris\_29:

(Start: 25 @26210 has 339 MA's), (35, 26267), (40, 26291), (45, 26315), (61, 26390), (101, 26606), (108, 26633), (110, 26642), (114, 26663), (119, 26684), (121, 26693), (133, 26756), (153, 26849), (163, 26906), (166, 26924), (198, 27056), (210, 27104), (219, 27146), (220, 27152), (221, 27155), (228, 27194), (235, 27227), (236, 27233), (239, 27242), (242, 27257), (253, 27302), (277, 27407), (287, 27443), (302, 27503), (304, 27512), (316, 27581),

Gene: EmpTee\_29 Start: 26220, Stop: 27653, Start Num: 25

Candidate Starts for EmpTee\_29:

(Start: 25 @26220 has 339 MA's), (35, 26277), (40, 26301), (45, 26325), (61, 26400), (101, 26616), (108, 26643), (110, 26652), (114, 26673), (119, 26694), (121, 26703), (133, 26766), (153, 26859), (163, 26916), (166, 26934), (198, 27066), (210, 27114), (219, 27156), (220, 27162), (221, 27165), (228, 27204), (235, 27237), (236, 27243), (239, 27252), (242, 27267), (253, 27312), (277, 27417), (287, 27453), (302, 27513), (304, 27522), (316, 27591),

Gene: Epah\_25 Start: 25433, Stop: 26866, Start Num: 25

Candidate Starts for Epah\_25:

(Start: 25 @25433 has 339 MA's), (32, 25466), (35, 25490), (36, 25493), (41, 25523), (50, 25562), (51, 25565), (53, 25571), (61, 25613), (70, 25646), (77, 25688), (79, 25715), (101, 25829), (109, 25862), (110, 25865), (111, 25871), (119, 25907), (121, 25916), (131, 25967), (139, 26009), (156, 26084), (160, 26120), (165, 26138), (166, 26147), (167, 26150), (171, 26171), (184, 26228), (186, 26240), (200, 26282), (202, 26288), (219, 26369), (220, 26375), (223, 26399), (228, 26417), (235, 26450), (239, 26465), (241, 26477), (254, 26528), (258, 26540), (286, 26663), (287, 26666), (303, 26732), (307, 26753), (315, 26801), (324, 26840), (328, 26861),

Gene: Eremos\_29 Start: 26219, Stop: 27652, Start Num: 25

Candidate Starts for Eremos\_29:

(Start: 25 @26219 has 339 MA's), (35, 26276), (40, 26300), (45, 26324), (61, 26399), (101, 26615), (108, 26642), (110, 26651), (114, 26672), (119, 26693), (121, 26702), (133, 26765), (153, 26858), (163, 26915), (166, 26933), (198, 27065), (210, 27113), (219, 27155), (220, 27161), (221, 27164), (228, 27203), (235, 27236), (236, 27242), (239, 27251), (242, 27266), (253, 27311), (277, 27416), (287, 27452), (302, 27512), (304, 27521), (316, 27590),

Gene: Etaye\_29 Start: 26209, Stop: 27642, Start Num: 25

Candidate Starts for Etaye\_29:

(Start: 25 @26209 has 339 MA's), (35, 26266), (40, 26290), (45, 26314), (61, 26389), (101, 26605), (108, 26632), (110, 26641), (114, 26662), (119, 26683), (121, 26692), (133, 26755), (153, 26848), (166, 26923), (198, 27055), (210, 27103), (219, 27145), (220, 27151), (221, 27154), (228, 27193),

(230, 27211), (235, 27226), (236, 27232), (239, 27241), (242, 27256), (253, 27301), (277, 27406), (287, 27442), (302, 27502), (304, 27511), (309, 27538), (316, 27580), (321, 27601),

Gene: Eugenia\_29 Start: 26229, Stop: 27662, Start Num: 25

Candidate Starts for Eugenia\_29:

(Start: 25 @26229 has 339 MA's), (35, 26286), (40, 26310), (45, 26334), (61, 26409), (101, 26625), (108, 26652), (110, 26661), (114, 26682), (119, 26703), (121, 26712), (133, 26775), (153, 26868), (163, 26925), (166, 26943), (198, 27075), (210, 27123), (219, 27165), (220, 27171), (221, 27174), (228, 27213), (235, 27246), (236, 27252), (239, 27261), (242, 27276), (253, 27321), (277, 27426), (287, 27462), (302, 27522), (304, 27531), (316, 27600),

Gene: Evaa\_26 Start: 25002, Stop: 26525, Start Num: 10

Candidate Starts for Evaa\_26:

(Start: 10 @25002 has 3 MA's), (47, 25209), (58, 25257), (63, 25281), (75, 25335), (109, 25518), (110, 25521), (111, 25527), (117, 25551), (121, 25572), (134, 25638), (136, 25644), (166, 25803), (167, 25806), (173, 25836), (178, 25857), (183, 25878), (186, 25899), (219, 26028), (241, 26136), (244, 26145), (254, 26187), (261, 26208), (269, 26247), (277, 26289), (294, 26361), (309, 26421), (315, 26460), (321, 26484), (324, 26499),

Gene: Fanaw\_25 Start: 26128, Stop: 27561, Start Num: 25

Candidate Starts for Fanaw\_25:

(Start: 25 @26128 has 339 MA's), (32, 26161), (35, 26185), (36, 26188), (41, 26218), (51, 26260), (53, 26266), (61, 26308), (70, 26341), (77, 26383), (101, 26524), (110, 26560), (111, 26566), (119, 26602), (121, 26611), (131, 26662), (139, 26704), (160, 26815), (165, 26833), (166, 26842), (167, 26845), (171, 26866), (184, 26923), (186, 26935), (200, 26977), (202, 26983), (219, 27064), (220, 27070), (223, 27094), (228, 27112), (235, 27145), (239, 27160), (241, 27172), (254, 27223), (258, 27235), (286, 27358), (287, 27361), (303, 27427), (307, 27448), (315, 27496), (324, 27535), (328, 27556),

Gene: Fang\_29 Start: 26233, Stop: 27666, Start Num: 25

Candidate Starts for Fang\_29:

(Start: 25 @26233 has 339 MA's), (35, 26290), (40, 26314), (45, 26338), (61, 26413), (101, 26629), (108, 26656), (110, 26665), (114, 26686), (119, 26707), (121, 26716), (133, 26779), (153, 26872), (163, 26929), (166, 26947), (198, 27079), (210, 27127), (219, 27169), (220, 27175), (221, 27178), (228, 27217), (235, 27250), (236, 27256), (239, 27265), (242, 27280), (253, 27325), (277, 27430), (287, 27466), (302, 27526), (304, 27535), (316, 27604),

Gene: Faze9\_30 Start: 27612, Stop: 29048, Start Num: 26

Candidate Starts for Faze9\_30:

(Start: 26 @27612 has 105 MA's), (32, 27645), (35, 27669), (36, 27672), (40, 27693), (44, 27714), (51, 27747), (60, 27792), (63, 27801), (77, 27864), (109, 28044), (110, 28047), (114, 28068), (120, 28092), (121, 28098), (123, 28116), (130, 28146), (131, 28149), (136, 28170), (150, 28239), (158, 28293), (163, 28311), (166, 28329), (167, 28332), (172, 28356), (184, 28410), (195, 28449), (201, 28467), (206, 28488), (218, 28545), (219, 28551), (221, 28560), (230, 28617), (244, 28668), (247, 28677), (254, 28710), (257, 28719), (271, 28785), (282, 28827), (287, 28848), (290, 28860), (292, 28878), (304, 28917), (315, 28983), (316, 28986), (322, 29016),

Gene: FelixTres\_27 Start: 25487, Stop: 27013, Start Num: 9

Candidate Starts for FelixTres\_27:

(Start: 9 @25487 has 19 MA's), (14, 25520), (16, 25544), (18, 25547), (Start: 27 @25589 has 38 MA's), (Start: 28 @25592 has 1 MA's), (93, 25937), (108, 26003), (117, 26042), (131, 26114), (153, 26219), (163, 26276), (168, 26300), (183, 26366), (184, 26375), (186, 26387), (188, 26390), (195, 26414), (200, 26429), (205, 26450), (219, 26516), (220, 26522), (227, 26561), (228, 26564), (235, 26597), (241, 26624), (244, 26633), (247, 26642), (258, 26687), (265, 26723), (269, 26735), (279, 26783),

(302, 26873), (315, 26948), (322, 26981),

Gene: Flake\_29 Start: 26269, Stop: 27702, Start Num: 25

Candidate Starts for Flake\_29:

(Start: 25 @26269 has 339 MA's), (35, 26326), (40, 26350), (45, 26374), (61, 26449), (101, 26665), (108, 26692), (110, 26701), (114, 26722), (119, 26743), (121, 26752), (133, 26815), (153, 26908), (166, 26983), (198, 27115), (210, 27163), (219, 27205), (220, 27211), (221, 27214), (228, 27253), (230, 27271), (235, 27286), (236, 27292), (239, 27301), (242, 27316), (253, 27361), (277, 27466), (287, 27502), (302, 27562), (304, 27571), (309, 27598), (316, 27640), (321, 27661),

Gene: FleetyMac\_28 Start: 26225, Stop: 27658, Start Num: 25

Candidate Starts for FleetyMac\_28:

(Start: 25 @26225 has 339 MA's), (35, 26282), (40, 26306), (45, 26330), (61, 26405), (108, 26648), (110, 26657), (114, 26678), (119, 26699), (121, 26708), (133, 26771), (153, 26864), (154, 26867), (163, 26921), (166, 26939), (210, 27119), (219, 27161), (220, 27167), (221, 27170), (228, 27209), (230, 27227), (235, 27242), (236, 27248), (239, 27257), (242, 27272), (253, 27317), (277, 27422), (287, 27458), (302, 27518), (304, 27527), (309, 27554), (316, 27596), (321, 27617),

Gene: FluffyNinja\_29 Start: 26226, Stop: 27659, Start Num: 25

Candidate Starts for FluffyNinja\_29:

(Start: 25 @26226 has 339 MA's), (35, 26283), (40, 26307), (45, 26331), (61, 26406), (101, 26622), (108, 26649), (110, 26658), (114, 26679), (119, 26700), (121, 26709), (133, 26772), (153, 26865), (163, 26922), (166, 26940), (198, 27072), (210, 27120), (219, 27162), (220, 27168), (221, 27171), (228, 27210), (235, 27243), (236, 27249), (239, 27258), (242, 27273), (253, 27318), (277, 27423), (287, 27459), (302, 27519), (304, 27528), (316, 27597),

Gene: ForDig\_24 Start: 25037, Stop: 26470, Start Num: 25

Candidate Starts for ForDig\_24:

(Start: 25 @25037 has 339 MA's), (35, 25094), (38, 25112), (48, 25154), (74, 25280), (79, 25319), (91, 25379), (101, 25433), (109, 25466), (110, 25469), (121, 25520), (136, 25592), (163, 25733), (166, 25751), (167, 25754), (168, 25757), (171, 25775), (174, 25787), (183, 25823), (202, 25892), (207, 25913), (219, 25973), (228, 26021), (235, 26054), (236, 26060), (244, 26090), (254, 26132), (279, 26240), (292, 26300), (303, 26336), (304, 26339), (315, 26405),

Gene: Forrestell\_34 Start: 25104, Stop: 26312, Start Num: 27

Candidate Starts for Forrestell\_34:

(Start: 27 @25104 has 38 MA's), (32, 25134), (37, 25170), (89, 25365), (104, 25431), (105, 25434), (112, 25467), (113, 25470), (114, 25479), (118, 25497), (129, 25539), (134, 25557), (148, 25620), (155, 25644), (159, 25674), (165, 25686), (169, 25710), (180, 25755), (190, 25803), (199, 25830), (243, 25968), (244, 25971), (252, 26004), (280, 26103), (295, 26163), (313, 26244), (318, 26259), (323, 26280), (325, 26286),

Gene: Fortunato\_26 Start: 26456, Stop: 27889, Start Num: 25

Candidate Starts for Fortunato\_26:

(Start: 25 @26456 has 339 MA's), (32, 26489), (35, 26513), (36, 26516), (41, 26546), (51, 26588), (53, 26594), (61, 26636), (70, 26669), (77, 26711), (91, 26798), (101, 26852), (110, 26888), (111, 26894), (119, 26930), (121, 26939), (131, 26990), (139, 27032), (160, 27143), (165, 27161), (166, 27170), (167, 27173), (171, 27194), (184, 27251), (186, 27263), (200, 27305), (202, 27311), (219, 27392), (220, 27398), (223, 27422), (228, 27440), (235, 27473), (239, 27488), (241, 27500), (258, 27563), (287, 27689), (303, 27755), (307, 27776), (315, 27824), (324, 27863), (328, 27884),

Gene: Fozzie\_28 Start: 26235, Stop: 27668, Start Num: 25

Candidate Starts for Fozzie\_28:

(Start: 25 @26235 has 339 MA's), (35, 26292), (40, 26316), (45, 26340), (61, 26415), (101, 26631), (108, 26658), (110, 26667), (114, 26688), (119, 26709), (121, 26718), (133, 26781), (153, 26874), (163, 26931), (166, 26949), (198, 27081), (210, 27129), (219, 27171), (220, 27177), (221, 27180), (228, 27219), (235, 27252), (236, 27258), (239, 27267), (242, 27282), (253, 27327), (277, 27432), (287, 27468), (302, 27528), (304, 27537), (309, 27564), (316, 27606),

Gene: Frankicide\_29 Start: 26238, Stop: 27671, Start Num: 25

Candidate Starts for Frankicide\_29:

(Start: 25 @26238 has 339 MA's), (35, 26295), (40, 26319), (45, 26343), (61, 26418), (101, 26634), (108, 26661), (110, 26670), (114, 26691), (119, 26712), (121, 26721), (133, 26784), (153, 26877), (163, 26934), (166, 26952), (198, 27084), (210, 27132), (219, 27174), (220, 27180), (221, 27183), (228, 27222), (230, 27240), (235, 27255), (236, 27261), (239, 27270), (242, 27285), (253, 27330), (277, 27435), (287, 27471), (302, 27531), (304, 27540), (316, 27609),

Gene: Frederick\_26 Start: 26465, Stop: 27898, Start Num: 25

Candidate Starts for Frederick\_26:

(Start: 25 @26465 has 339 MA's), (32, 26498), (35, 26522), (36, 26525), (41, 26555), (51, 26597), (53, 26603), (61, 26645), (70, 26678), (77, 26720), (101, 26861), (110, 26897), (111, 26903), (119, 26939), (121, 26948), (131, 26999), (139, 27041), (160, 27152), (165, 27170), (166, 27179), (171, 27203), (184, 27260), (186, 27272), (200, 27314), (202, 27320), (219, 27401), (220, 27407), (223, 27431), (228, 27449), (235, 27482), (239, 27497), (241, 27509), (254, 27560), (258, 27572), (286, 27695), (287, 27698), (303, 27764), (307, 27785), (315, 27833), (324, 27872), (328, 27893),

Gene: FremontTroll\_29 Start: 25923, Stop: 27356, Start Num: 25

Candidate Starts for FremontTroll\_29:

(Start: 25 @25923 has 339 MA's), (35, 25980), (40, 26004), (45, 26028), (61, 26103), (101, 26319), (108, 26346), (110, 26355), (114, 26376), (119, 26397), (121, 26406), (133, 26469), (153, 26562), (163, 26619), (166, 26637), (198, 26769), (210, 26817), (219, 26859), (220, 26865), (221, 26868), (228, 26907), (235, 26940), (236, 26946), (239, 26955), (242, 26970), (253, 27015), (277, 27120), (287, 27156), (302, 27216), (304, 27225), (316, 27294),

Gene: FrenchFry\_30 Start: 27606, Stop: 29042, Start Num: 26

Candidate Starts for FrenchFry\_30:

(Start: 26 @27606 has 105 MA's), (32, 27639), (35, 27663), (36, 27666), (40, 27687), (44, 27708), (51, 27741), (60, 27786), (63, 27795), (77, 27858), (109, 28038), (110, 28041), (114, 28062), (120, 28086), (121, 28092), (123, 28110), (130, 28140), (131, 28143), (134, 28158), (136, 28164), (150, 28233), (158, 28287), (163, 28305), (166, 28323), (167, 28326), (172, 28350), (184, 28404), (195, 28443), (201, 28461), (206, 28482), (218, 28539), (219, 28545), (221, 28554), (230, 28611), (244, 28662), (247, 28671), (254, 28704), (257, 28713), (271, 28779), (282, 28821), (287, 28842), (290, 28854), (292, 28872), (304, 28911), (315, 28977), (316, 28980), (322, 29010),

Gene: Fresco\_25 Start: 23515, Stop: 25044, Start Num: 9

Candidate Starts for Fresco\_25:

(1, 22570), (2, 22669), (Start: 9 @23515 has 19 MA's), (14, 23548), (Start: 27 @23617 has 38 MA's), (30, 23635), (54, 23758), (59, 23779), (63, 23800), (110, 24043), (119, 24085), (121, 24094), (130, 24142), (165, 24316), (167, 24328), (183, 24397), (186, 24418), (218, 24541), (219, 24547), (222, 24574), (228, 24595), (235, 24628), (236, 24634), (239, 24643), (256, 24712), (263, 24742), (269, 24766), (279, 24814),

Gene: Freya\_28 Start: 25917, Stop: 27350, Start Num: 25

Candidate Starts for Freya\_28:

(Start: 25 @25917 has 339 MA's), (35, 25974), (40, 25998), (45, 26022), (61, 26097), (101, 26313), (108, 26340), (110, 26349), (114, 26370), (119, 26391), (121, 26400), (133, 26463), (153, 26556),

(163, 26613), (166, 26631), (198, 26763), (210, 26811), (219, 26853), (220, 26859), (221, 26862), (228, 26901), (235, 26934), (236, 26940), (239, 26949), (242, 26964), (253, 27009), (277, 27114), (287, 27150), (302, 27210), (304, 27219), (316, 27288),

Gene: FriarPreacher\_29 Start: 26244, Stop: 27677, Start Num: 25

Candidate Starts for FriarPreacher\_29:

(Start: 25 @26244 has 339 MA's), (35, 26301), (40, 26325), (45, 26349), (61, 26424), (101, 26640), (108, 26667), (110, 26676), (114, 26697), (119, 26718), (121, 26727), (133, 26790), (153, 26883), (163, 26940), (166, 26958), (198, 27090), (210, 27138), (219, 27180), (220, 27186), (221, 27189), (228, 27228), (235, 27261), (236, 27267), (239, 27276), (242, 27291), (253, 27336), (277, 27441), (287, 27477), (302, 27537), (304, 27546), (316, 27615),

Gene: Fringe\_29 Start: 26208, Stop: 27641, Start Num: 25

Candidate Starts for Fringe\_29:

(Start: 25 @26208 has 339 MA's), (35, 26265), (40, 26289), (45, 26313), (61, 26388), (101, 26604), (108, 26631), (110, 26640), (114, 26661), (119, 26682), (121, 26691), (133, 26754), (153, 26847), (163, 26904), (166, 26922), (198, 27054), (210, 27102), (219, 27144), (220, 27150), (221, 27153), (228, 27192), (235, 27225), (236, 27231), (239, 27240), (242, 27255), (253, 27300), (277, 27405), (287, 27441), (302, 27501), (304, 27510), (316, 27579),

Gene: FugateOSU\_28 Start: 25922, Stop: 27355, Start Num: 25

Candidate Starts for FugateOSU\_28:

(Start: 25 @25922 has 339 MA's), (35, 25979), (40, 26003), (45, 26027), (61, 26102), (101, 26318), (108, 26345), (110, 26354), (114, 26375), (119, 26396), (121, 26405), (133, 26468), (153, 26561), (163, 26618), (166, 26636), (198, 26768), (210, 26816), (219, 26858), (220, 26864), (221, 26867), (228, 26906), (235, 26939), (236, 26945), (239, 26954), (242, 26969), (253, 27014), (277, 27119), (287, 27155), (302, 27215), (304, 27224), (316, 27293),

Gene: Funsized\_31 Start: 29174, Stop: 30607, Start Num: 25

Candidate Starts for Funsized\_31:

(Start: 25 @29174 has 339 MA's), (35, 29231), (45, 29279), (59, 29339), (61, 29354), (76, 29426), (91, 29516), (108, 29597), (109, 29603), (110, 29606), (111, 29612), (119, 29648), (121, 29657), (131, 29708), (163, 29870), (165, 29879), (166, 29888), (167, 29891), (168, 29894), (183, 29960), (184, 29969), (200, 30023), (205, 30044), (207, 30050), (210, 30068), (219, 30110), (228, 30158), (235, 30191), (236, 30197), (239, 30206), (244, 30227), (256, 30275), (257, 30278), (258, 30281), (279, 30377), (286, 30404), (290, 30419), (324, 30581),

Gene: Gadget\_30 Start: 26153, Stop: 27583, Start Num: 26

Candidate Starts for Gadget\_30:

(Start: 26 @26153 has 105 MA's), (35, 26210), (40, 26234), (41, 26243), (61, 26330), (89, 26480), (93, 26507), (110, 26582), (117, 26612), (121, 26633), (123, 26651), (136, 26705), (143, 26738), (167, 26867), (184, 26945), (186, 26957), (193, 26978), (197, 26993), (202, 27005), (219, 27086), (220, 27092), (229, 27140), (230, 27152), (241, 27194), (247, 27212), (254, 27245), (265, 27293), (279, 27353), (283, 27368), (287, 27383), (288, 27386), (303, 27449), (316, 27521), (322, 27551),

Gene: Gareth\_28 Start: 25924, Stop: 27357, Start Num: 25

Candidate Starts for Gareth\_28:

(Start: 25 @25924 has 339 MA's), (35, 25981), (40, 26005), (45, 26029), (61, 26104), (101, 26320), (108, 26347), (110, 26356), (114, 26377), (119, 26398), (121, 26407), (133, 26470), (153, 26563), (163, 26620), (166, 26638), (198, 26770), (210, 26818), (219, 26860), (220, 26866), (221, 26869), (228, 26908), (235, 26941), (236, 26947), (239, 26956), (242, 26971), (253, 27016), (277, 27121), (287, 27157), (302, 27217), (304, 27226), (316, 27295),

Gene: GeneCoco\_29 Start: 26234, Stop: 27667, Start Num: 25

Candidate Starts for GeneCoco\_29:

(Start: 25 @26234 has 339 MA's), (35, 26291), (40, 26315), (45, 26339), (61, 26414), (108, 26657), (110, 26666), (114, 26687), (119, 26708), (121, 26717), (133, 26780), (153, 26873), (154, 26876), (163, 26930), (166, 26948), (198, 27080), (210, 27128), (219, 27170), (220, 27176), (221, 27179), (228, 27218), (230, 27236), (235, 27251), (236, 27257), (239, 27266), (242, 27281), (253, 27326), (277, 27431), (287, 27467), (302, 27527), (304, 27536), (309, 27563), (312, 27587), (316, 27605), (321, 27626),

Gene: Gervas\_29 Start: 26127, Stop: 27557, Start Num: 26

Candidate Starts for Gervas\_29:

(Start: 26 @26127 has 105 MA's), (35, 26184), (40, 26208), (41, 26217), (61, 26304), (89, 26454), (93, 26481), (110, 26556), (117, 26586), (121, 26607), (123, 26625), (136, 26679), (143, 26712), (167, 26841), (184, 26919), (186, 26931), (193, 26952), (197, 26967), (202, 26979), (219, 27060), (220, 27066), (230, 27126), (241, 27168), (247, 27186), (254, 27219), (265, 27267), (279, 27327), (283, 27342), (287, 27357), (288, 27360), (316, 27495), (322, 27525),

Gene: GinPorsche\_25 Start: 25433, Stop: 26866, Start Num: 25

Candidate Starts for GinPorsche\_25:

(Start: 25 @25433 has 339 MA's), (32, 25466), (35, 25490), (36, 25493), (41, 25523), (50, 25562), (51, 25565), (53, 25571), (61, 25613), (70, 25646), (77, 25688), (79, 25715), (101, 25829), (109, 25862), (110, 25865), (111, 25871), (119, 25907), (121, 25916), (131, 25967), (139, 26009), (156, 26084), (160, 26120), (165, 26138), (166, 26147), (167, 26150), (171, 26171), (184, 26228), (186, 26240), (200, 26282), (202, 26288), (219, 26369), (220, 26375), (223, 26399), (228, 26417), (235, 26450), (239, 26465), (241, 26477), (254, 26528), (258, 26540), (286, 26663), (287, 26666), (303, 26732), (307, 26753), (315, 26801), (324, 26840), (328, 26861),

Gene: Giraffe\_29 Start: 25928, Stop: 27361, Start Num: 25

Candidate Starts for Giraffe\_29:

(Start: 25 @25928 has 339 MA's), (35, 25985), (40, 26009), (45, 26033), (61, 26108), (101, 26324), (108, 26351), (110, 26360), (114, 26381), (119, 26402), (121, 26411), (133, 26474), (153, 26567), (163, 26624), (166, 26642), (198, 26774), (210, 26822), (219, 26864), (220, 26870), (221, 26873), (228, 26912), (235, 26945), (236, 26951), (239, 26960), (242, 26975), (253, 27020), (277, 27125), (287, 27161), (302, 27221), (304, 27230), (316, 27299),

Gene: Glass\_30 Start: 27606, Stop: 29042, Start Num: 26

Candidate Starts for Glass\_30:

(Start: 26 @27606 has 105 MA's), (32, 27639), (35, 27663), (36, 27666), (40, 27687), (44, 27708), (51, 27741), (60, 27786), (63, 27795), (77, 27858), (109, 28038), (110, 28041), (114, 28062), (120, 28086), (121, 28092), (123, 28110), (130, 28140), (131, 28143), (134, 28158), (136, 28164), (150, 28233), (158, 28287), (163, 28305), (166, 28323), (167, 28326), (172, 28350), (184, 28404), (195, 28443), (201, 28461), (206, 28482), (218, 28539), (219, 28545), (221, 28554), (230, 28611), (244, 28662), (247, 28671), (254, 28704), (257, 28713), (271, 28779), (282, 28821), (287, 28842), (290, 28854), (292, 28872), (304, 28911), (315, 28977), (316, 28980), (322, 29010),

Gene: GlenHope\_30 Start: 26139, Stop: 27569, Start Num: 26

Candidate Starts for GlenHope\_30:

(Start: 26 @26139 has 105 MA's), (35, 26196), (40, 26220), (41, 26229), (61, 26316), (89, 26466), (93, 26493), (110, 26568), (117, 26598), (121, 26619), (123, 26637), (136, 26691), (143, 26724), (167, 26853), (184, 26931), (186, 26943), (193, 26964), (197, 26979), (202, 26991), (219, 27072), (220, 27078), (229, 27126), (230, 27138), (241, 27180), (247, 27198), (254, 27231), (265, 27279), (279, 27339), (283, 27354), (287, 27369), (288, 27372), (316, 27507), (322, 27537),

Gene: Glubnar\_30 Start: 26139, Stop: 27569, Start Num: 26

Candidate Starts for Glubnar\_30:

(Start: 26 @26139 has 105 MA's), (35, 26196), (40, 26220), (41, 26229), (61, 26316), (89, 26466), (93, 26493), (110, 26568), (117, 26598), (121, 26619), (123, 26637), (136, 26691), (143, 26724), (167, 26853), (184, 26931), (186, 26943), (193, 26964), (197, 26979), (202, 26991), (219, 27072), (220, 27078), (230, 27138), (241, 27180), (247, 27198), (254, 27231), (265, 27279), (279, 27339), (283, 27354), (287, 27369), (288, 27372), (303, 27435), (316, 27507), (322, 27537),

Gene: GodPhather\_23 Start: 25022, Stop: 26458, Start Num: 27

Candidate Starts for GodPhather\_23:

(13, 24953), (17, 24980), (Start: 27 @25022 has 38 MA's), (31, 25043), (60, 25199), (63, 25208), (82, 25310), (86, 25328), (93, 25379), (99, 25409), (108, 25445), (110, 25454), (115, 25478), (117, 25484), (131, 25556), (163, 25718), (164, 25724), (166, 25736), (167, 25739), (184, 25817), (186, 25829), (197, 25865), (203, 25880), (206, 25898), (219, 25961), (220, 25967), (227, 26006), (228, 26009), (230, 26027), (241, 26069), (244, 26078), (247, 26087), (254, 26120), (269, 26180), (271, 26195), (279, 26228), (287, 26258), (300, 26312), (303, 26324), (315, 26393), (316, 26396), (322, 26426),

Gene: Godines\_30 Start: 27486, Stop: 28922, Start Num: 26

Candidate Starts for Godines\_30:

(Start: 26 @27486 has 105 MA's), (32, 27519), (35, 27543), (36, 27546), (40, 27567), (44, 27588), (51, 27621), (60, 27666), (63, 27675), (77, 27738), (109, 27918), (110, 27921), (114, 27942), (120, 27966), (121, 27972), (123, 27990), (130, 28020), (131, 28023), (134, 28038), (136, 28044), (150, 28113), (158, 28167), (166, 28203), (167, 28206), (172, 28230), (184, 28284), (195, 28323), (201, 28341), (206, 28362), (218, 28419), (219, 28425), (221, 28434), (230, 28491), (244, 28542), (247, 28551), (254, 28584), (257, 28593), (271, 28659), (282, 28701), (287, 28722), (290, 28734), (292, 28752), (304, 28791), (315, 28857), (316, 28860), (322, 28890),

Gene: Gophee\_29 Start: 26210, Stop: 27643, Start Num: 25

Candidate Starts for Gophee\_29:

(Start: 25 @26210 has 339 MA's), (35, 26267), (40, 26291), (45, 26315), (61, 26390), (101, 26606), (108, 26633), (110, 26642), (114, 26663), (119, 26684), (121, 26693), (133, 26756), (153, 26849), (163, 26906), (166, 26924), (198, 27056), (210, 27104), (219, 27146), (220, 27152), (221, 27155), (228, 27194), (235, 27227), (236, 27233), (239, 27242), (242, 27257), (253, 27302), (277, 27407), (287, 27443), (302, 27503), (304, 27512), (316, 27581),

Gene: Grand2040\_28 Start: 25943, Stop: 27376, Start Num: 25

Candidate Starts for Grand2040\_28:

(Start: 25 @25943 has 339 MA's), (35, 26000), (40, 26024), (45, 26048), (61, 26123), (101, 26339), (108, 26366), (110, 26375), (114, 26396), (119, 26417), (121, 26426), (133, 26489), (153, 26582), (163, 26639), (166, 26657), (198, 26789), (210, 26837), (219, 26879), (220, 26885), (221, 26888), (228, 26927), (235, 26960), (236, 26966), (239, 26975), (242, 26990), (253, 27035), (277, 27140), (287, 27176), (302, 27236), (304, 27245), (316, 27314),

Gene: GreenChile\_29 Start: 26219, Stop: 27652, Start Num: 25

Candidate Starts for GreenChile\_29:

(Start: 25 @26219 has 339 MA's), (35, 26276), (40, 26300), (45, 26324), (61, 26399), (101, 26615), (108, 26642), (110, 26651), (114, 26672), (119, 26693), (121, 26702), (133, 26765), (153, 26858), (163, 26915), (166, 26933), (198, 27065), (210, 27113), (219, 27155), (220, 27161), (221, 27164), (228, 27203), (235, 27236), (236, 27242), (239, 27251), (242, 27266), (253, 27311), (277, 27416), (287, 27452), (302, 27512), (304, 27521), (316, 27590),

Gene: Grumio\_57 Start: 35653, Stop: 36939, Start Num: 26

Candidate Starts for Grumio\_57:

(Start: 26 @35653 has 105 MA's), (29, 35671), (83, 35890), (89, 35932), (118, 36064), (130, 36124), (140, 36166), (179, 36352), (192, 36409), (244, 36586), (257, 36637), (272, 36694), (273, 36697), (281, 36727), (284, 36742), (295, 36784), (300, 36799), (327, 36925),

Gene: Gwennie1\_29 Start: 26289, Stop: 27722, Start Num: 25

Candidate Starts for Gwennie1\_29:

(Start: 25 @26289 has 339 MA's), (35, 26346), (40, 26370), (45, 26394), (61, 26469), (101, 26685), (108, 26712), (110, 26721), (114, 26742), (119, 26763), (121, 26772), (133, 26835), (153, 26928), (166, 27003), (198, 27135), (210, 27183), (219, 27225), (220, 27231), (221, 27234), (228, 27273), (230, 27291), (235, 27306), (236, 27312), (239, 27321), (242, 27336), (253, 27381), (277, 27486), (287, 27522), (302, 27582), (304, 27591), (309, 27618), (316, 27660), (321, 27681),

Gene: Gwilliam\_29 Start: 26222, Stop: 27655, Start Num: 25

Candidate Starts for Gwilliam\_29:

(Start: 25 @26222 has 339 MA's), (35, 26279), (40, 26303), (45, 26327), (61, 26402), (101, 26618), (108, 26645), (110, 26654), (114, 26675), (119, 26696), (121, 26705), (133, 26768), (153, 26861), (163, 26918), (166, 26936), (198, 27068), (210, 27116), (219, 27158), (220, 27164), (221, 27167), (228, 27206), (235, 27239), (236, 27245), (239, 27254), (242, 27269), (253, 27314), (277, 27419), (287, 27455), (302, 27515), (304, 27524), (316, 27593),

Gene: Gyarad\_0029 Start: 26224, Stop: 27657, Start Num: 25

Candidate Starts for Gyarad\_0029:

(Start: 25 @26224 has 339 MA's), (35, 26281), (40, 26305), (45, 26329), (61, 26404), (101, 26620), (108, 26647), (110, 26656), (114, 26677), (119, 26698), (121, 26707), (133, 26770), (153, 26863), (163, 26920), (166, 26938), (198, 27070), (210, 27118), (219, 27160), (220, 27166), (221, 27169), (228, 27208), (235, 27241), (236, 27247), (239, 27256), (242, 27271), (253, 27316), (277, 27421), (287, 27457), (302, 27517), (304, 27526), (316, 27595),

Gene: HSavage\_29 Start: 26229, Stop: 27662, Start Num: 25

Candidate Starts for HSavage\_29:

(Start: 25 @26229 has 339 MA's), (35, 26286), (40, 26310), (45, 26334), (61, 26409), (101, 26625), (108, 26652), (110, 26661), (114, 26682), (119, 26703), (121, 26712), (133, 26775), (153, 26868), (163, 26925), (166, 26943), (198, 27075), (210, 27123), (219, 27165), (220, 27171), (221, 27174), (228, 27213), (235, 27246), (236, 27252), (239, 27261), (242, 27276), (253, 27321), (277, 27426), (287, 27462), (302, 27522), (304, 27531), (316, 27600),

Gene: Haimas\_29 Start: 26220, Stop: 27653, Start Num: 25

Candidate Starts for Haimas\_29:

(Start: 25 @26220 has 339 MA's), (35, 26277), (40, 26301), (45, 26325), (61, 26400), (101, 26616), (108, 26643), (110, 26652), (114, 26673), (119, 26694), (121, 26703), (133, 26766), (153, 26859), (163, 26916), (166, 26934), (198, 27066), (210, 27114), (219, 27156), (220, 27162), (221, 27165), (228, 27204), (235, 27237), (236, 27243), (239, 27252), (242, 27267), (253, 27312), (277, 27417), (287, 27453), (302, 27513), (304, 27522), (316, 27591),

Gene: Haleema\_28 Start: 25943, Stop: 27376, Start Num: 25

Candidate Starts for Haleema\_28:

(Start: 25 @25943 has 339 MA's), (35, 26000), (40, 26024), (45, 26048), (61, 26123), (101, 26339), (108, 26366), (110, 26375), (114, 26396), (119, 26417), (121, 26426), (133, 26489), (153, 26582), (163, 26639), (166, 26657), (198, 26789), (210, 26837), (219, 26879), (220, 26885), (221, 26888), (228, 26927), (235, 26960), (236, 26966), (239, 26975), (242, 26990), (253, 27035), (277, 27140), (287, 27176), (302, 27236), (304, 27245), (316, 27314),

Gene: Halfpint\_28 Start: 25962, Stop: 27392, Start Num: 26

Candidate Starts for Halfpint\_28:

(Start: 26 @25962 has 105 MA's), (35, 26019), (40, 26043), (41, 26052), (61, 26139), (89, 26289), (93, 26316), (110, 26391), (117, 26421), (121, 26442), (123, 26460), (136, 26514), (143, 26547), (145, 26565), (167, 26676), (184, 26754), (186, 26766), (193, 26787), (197, 26802), (202, 26814), (219, 26895), (220, 26901), (230, 26961), (241, 27003), (247, 27021), (254, 27054), (265, 27102), (279, 27162), (283, 27177), (287, 27192), (288, 27195), (316, 27330), (322, 27360),

Gene: Hally898\_25 Start: 25445, Stop: 26878, Start Num: 25

Candidate Starts for Hally898\_25:

(Start: 25 @25445 has 339 MA's), (32, 25478), (35, 25502), (36, 25505), (41, 25535), (50, 25574), (51, 25577), (53, 25583), (61, 25625), (70, 25658), (77, 25700), (79, 25727), (101, 25841), (109, 25874), (110, 25877), (111, 25883), (119, 25919), (121, 25928), (131, 25979), (139, 26021), (156, 26096), (160, 26132), (165, 26150), (166, 26159), (167, 26162), (171, 26183), (184, 26240), (186, 26252), (200, 26294), (202, 26300), (219, 26381), (220, 26387), (223, 26411), (228, 26429), (235, 26462), (239, 26477), (241, 26489), (254, 26540), (258, 26552), (286, 26675), (287, 26678), (303, 26744), (307, 26765), (315, 26813), (324, 26852), (328, 26873),

Gene: Hamish\_29 Start: 26212, Stop: 27645, Start Num: 25

Candidate Starts for Hamish\_29:

(Start: 25 @26212 has 339 MA's), (35, 26269), (40, 26293), (45, 26317), (61, 26392), (101, 26608), (108, 26635), (110, 26644), (114, 26665), (119, 26686), (121, 26695), (133, 26758), (153, 26851), (163, 26908), (166, 26926), (198, 27058), (210, 27106), (219, 27148), (220, 27154), (221, 27157), (228, 27196), (235, 27229), (236, 27235), (239, 27244), (242, 27259), (253, 27304), (277, 27409), (287, 27445), (302, 27505), (304, 27514), (316, 27583),

Gene: Hangman\_26 Start: 26457, Stop: 27890, Start Num: 25

Candidate Starts for Hangman\_26:

(Start: 25 @26457 has 339 MA's), (32, 26490), (35, 26514), (36, 26517), (41, 26547), (51, 26589), (53, 26595), (61, 26637), (70, 26670), (77, 26712), (96, 26829), (101, 26853), (110, 26889), (111, 26895), (119, 26931), (121, 26940), (131, 26991), (139, 27033), (160, 27144), (165, 27162), (166, 27171), (167, 27174), (171, 27195), (184, 27252), (186, 27264), (200, 27306), (202, 27312), (219, 27393), (220, 27399), (223, 27423), (227, 27438), (228, 27441), (235, 27474), (239, 27489), (241, 27501), (254, 27552), (256, 27558), (258, 27564), (282, 27669), (286, 27687), (287, 27690), (303, 27756), (307, 27777), (315, 27825), (324, 27864), (328, 27885),

Gene: Happabalu\_29 Start: 25941, Stop: 27374, Start Num: 25

Candidate Starts for Happabalu\_29:

(Start: 25 @25941 has 339 MA's), (35, 25998), (40, 26022), (45, 26046), (61, 26121), (101, 26337), (108, 26364), (110, 26373), (114, 26394), (119, 26415), (121, 26424), (133, 26487), (153, 26580), (166, 26655), (198, 26787), (210, 26835), (219, 26877), (220, 26883), (221, 26886), (228, 26925), (235, 26958), (236, 26964), (239, 26973), (242, 26988), (253, 27033), (277, 27138), (287, 27174), (302, 27234), (304, 27243), (316, 27312),

Gene: Hartsy\_29 Start: 26263, Stop: 27696, Start Num: 25

Candidate Starts for Hartsy\_29:

(Start: 25 @26263 has 339 MA's), (35, 26320), (40, 26344), (45, 26368), (61, 26443), (108, 26686), (110, 26695), (114, 26716), (119, 26737), (121, 26746), (133, 26809), (153, 26902), (163, 26959), (166, 26977), (198, 27109), (210, 27157), (219, 27199), (220, 27205), (221, 27208), (228, 27247), (230, 27265), (235, 27280), (236, 27286), (239, 27295), (242, 27310), (253, 27355), (277, 27460), (287, 27496), (302, 27556), (304, 27565), (309, 27592), (316, 27634), (321, 27655),

Gene: Harvey\_29 Start: 26238, Stop: 27671, Start Num: 25

Candidate Starts for Harvey\_29:

(Start: 25 @26238 has 339 MA's), (35, 26295), (40, 26319), (45, 26343), (61, 26418), (101, 26634), (108, 26661), (110, 26670), (114, 26691), (119, 26712), (121, 26721), (133, 26784), (153, 26877), (163, 26934), (166, 26952), (198, 27084), (210, 27132), (219, 27174), (220, 27180), (221, 27183), (228, 27222), (235, 27255), (236, 27261), (239, 27270), (242, 27285), (253, 27330), (277, 27435), (287, 27471), (302, 27531), (304, 27540), (316, 27609),

Gene: HarveySr\_29 Start: 26126, Stop: 27556, Start Num: 26

Candidate Starts for HarveySr\_29:

(Start: 26 @26126 has 105 MA's), (35, 26183), (40, 26207), (41, 26216), (61, 26303), (93, 26480), (108, 26546), (110, 26555), (117, 26585), (121, 26606), (123, 26624), (136, 26678), (167, 26840), (184, 26918), (186, 26930), (193, 26951), (197, 26966), (202, 26978), (219, 27059), (220, 27065), (230, 27125), (241, 27167), (247, 27185), (254, 27218), (265, 27266), (279, 27326), (283, 27341), (287, 27356), (288, 27359), (316, 27494), (322, 27524),

Gene: Hashim76\_32 Start: 26274, Stop: 27707, Start Num: 25

Candidate Starts for Hashim76\_32:

(Start: 25 @26274 has 339 MA's), (36, 26334), (40, 26355), (45, 26379), (50, 26403), (52, 26409), (61, 26454), (89, 26607), (109, 26703), (128, 26793), (131, 26808), (139, 26850), (163, 26970), (174, 27024), (183, 27060), (184, 27069), (197, 27117), (200, 27123), (202, 27129), (203, 27132), (219, 27210), (227, 27255), (239, 27306), (244, 27327), (253, 27366), (304, 27576), (319, 27660), (324, 27681),

Gene: Heath\_25 Start: 26058, Stop: 27491, Start Num: 25

Candidate Starts for Heath\_25:

(Start: 25 @26058 has 339 MA's), (32, 26091), (35, 26115), (36, 26118), (41, 26148), (53, 26196), (61, 26238), (70, 26271), (77, 26313), (79, 26340), (101, 26454), (109, 26487), (111, 26496), (119, 26532), (121, 26541), (131, 26592), (139, 26634), (160, 26745), (166, 26772), (167, 26775), (171, 26796), (184, 26853), (186, 26865), (200, 26907), (202, 26913), (219, 26994), (220, 27000), (223, 27024), (228, 27042), (235, 27075), (239, 27090), (241, 27102), (254, 27153), (258, 27165), (286, 27288), (287, 27291), (303, 27357), (307, 27378), (315, 27426), (324, 27465), (328, 27486),

Gene: Heathcliff\_29 Start: 26108, Stop: 27538, Start Num: 26

Candidate Starts for Heathcliff\_29:

(Start: 26 @26108 has 105 MA's), (35, 26165), (40, 26189), (41, 26198), (61, 26285), (89, 26435), (93, 26462), (110, 26537), (117, 26567), (121, 26588), (123, 26606), (136, 26660), (143, 26693), (167, 26822), (184, 26900), (186, 26912), (193, 26933), (197, 26948), (202, 26960), (219, 27041), (220, 27047), (229, 27095), (230, 27107), (241, 27149), (247, 27167), (254, 27200), (265, 27248), (279, 27308), (283, 27323), (287, 27338), (288, 27341), (303, 27404), (316, 27476), (322, 27506),

Gene: Hedgerow\_30 Start: 27588, Stop: 29024, Start Num: 26

Candidate Starts for Hedgerow\_30:

(Start: 26 @27588 has 105 MA's), (32, 27621), (35, 27645), (36, 27648), (40, 27669), (44, 27690), (51, 27723), (60, 27768), (63, 27777), (77, 27840), (109, 28020), (110, 28023), (114, 28044), (120, 28068), (121, 28074), (123, 28092), (130, 28122), (131, 28125), (134, 28140), (136, 28146), (150, 28215), (158, 28269), (163, 28287), (166, 28305), (167, 28308), (172, 28332), (184, 28386), (195, 28425), (201, 28443), (206, 28464), (218, 28521), (219, 28527), (221, 28536), (230, 28593), (244, 28644), (247, 28653), (254, 28686), (257, 28695), (271, 28761), (282, 28803), (287, 28824), (290, 28836), (292, 28854), (304, 28893), (315, 28959), (316, 28962), (322, 28992),

Gene: Hekos\_26 Start: 24792, Stop: 26225, Start Num: 25

Candidate Starts for Hekos\_26:

(Start: 25 @24792 has 339 MA's), (35, 24849), (40, 24873), (45, 24897), (61, 24972), (101, 25188), (108, 25215), (110, 25224), (114, 25245), (119, 25266), (121, 25275), (133, 25338), (153, 25431),

(166, 25506), (198, 25638), (210, 25686), (219, 25728), (220, 25734), (221, 25737), (228, 25776), (235, 25809), (236, 25815), (239, 25824), (242, 25839), (253, 25884), (277, 25989), (287, 26025), (302, 26085), (304, 26094), (316, 26163),

Gene: Held\_29 Start: 25927, Stop: 27360, Start Num: 25

Candidate Starts for Held\_29:

(Start: 25 @25927 has 339 MA's), (35, 25984), (40, 26008), (45, 26032), (61, 26107), (101, 26323), (108, 26350), (110, 26359), (114, 26380), (119, 26401), (121, 26410), (133, 26473), (153, 26566), (163, 26623), (166, 26641), (198, 26773), (210, 26821), (219, 26863), (220, 26869), (221, 26872), (228, 26911), (235, 26944), (236, 26950), (239, 26959), (242, 26974), (253, 27019), (277, 27124), (287, 27160), (302, 27220), (304, 27229), (316, 27298),

Gene: HenryJackson\_28 Start: 25943, Stop: 27376, Start Num: 25

Candidate Starts for HenryJackson\_28:

(Start: 25 @25943 has 339 MA's), (35, 26000), (40, 26024), (45, 26048), (61, 26123), (101, 26339), (108, 26366), (110, 26375), (114, 26396), (119, 26417), (121, 26426), (133, 26489), (153, 26582), (163, 26639), (166, 26657), (198, 26789), (210, 26837), (219, 26879), (220, 26885), (221, 26888), (228, 26927), (235, 26960), (236, 26966), (239, 26975), (242, 26990), (253, 27035), (277, 27140), (287, 27176), (302, 27236), (304, 27245), (316, 27314),

Gene: Hertubise\_29 Start: 26234, Stop: 27667, Start Num: 25

Candidate Starts for Hertubise\_29:

(Start: 25 @26234 has 339 MA's), (35, 26291), (40, 26315), (45, 26339), (61, 26414), (101, 26630), (108, 26657), (110, 26666), (114, 26687), (119, 26708), (121, 26717), (133, 26780), (153, 26873), (163, 26930), (166, 26948), (198, 27080), (210, 27128), (219, 27170), (220, 27176), (221, 27179), (228, 27218), (235, 27251), (236, 27257), (239, 27266), (242, 27281), (253, 27326), (277, 27431), (287, 27467), (302, 27527), (304, 27536), (316, 27605),

Gene: Hetaeria\_29 Start: 26236, Stop: 27669, Start Num: 25

Candidate Starts for Hetaeria\_29:

(Start: 25 @26236 has 339 MA's), (35, 26293), (40, 26317), (45, 26341), (61, 26416), (101, 26632), (108, 26659), (110, 26668), (114, 26689), (119, 26710), (121, 26719), (133, 26782), (153, 26875), (163, 26932), (166, 26950), (198, 27082), (210, 27130), (219, 27172), (220, 27178), (221, 27181), (228, 27220), (235, 27253), (236, 27259), (239, 27268), (242, 27283), (253, 27328), (277, 27433), (287, 27469), (302, 27529), (304, 27538), (316, 27607),

Gene: HighStump\_28 Start: 25926, Stop: 27359, Start Num: 25

Candidate Starts for HighStump\_28:

(Start: 25 @25926 has 339 MA's), (35, 25983), (40, 26007), (45, 26031), (61, 26106), (101, 26322), (108, 26349), (110, 26358), (114, 26379), (119, 26400), (121, 26409), (133, 26472), (153, 26565), (163, 26622), (166, 26640), (198, 26772), (210, 26820), (219, 26862), (220, 26868), (221, 26871), (228, 26910), (235, 26943), (236, 26949), (239, 26958), (242, 26973), (253, 27018), (277, 27123), (287, 27159), (302, 27219), (304, 27228), (316, 27297),

Gene: Hive\_37 Start: 26492, Stop: 27700, Start Num: 27

Candidate Starts for Hive\_37:

(Start: 27 @26492 has 38 MA's), (32, 26522), (37, 26558), (89, 26753), (104, 26819), (105, 26822), (112, 26855), (113, 26858), (114, 26867), (118, 26885), (129, 26927), (134, 26945), (148, 27008), (155, 27032), (159, 27062), (165, 27074), (169, 27098), (180, 27143), (199, 27218), (243, 27356), (244, 27359), (252, 27392), (280, 27491), (295, 27551), (313, 27632), (318, 27647), (323, 27668), (325, 27674),

Gene: Hocus\_28 Start: 25935, Stop: 27368, Start Num: 25

Candidate Starts for Hocus\_28:

(Start: 25 @25935 has 339 MA's), (35, 25992), (40, 26016), (45, 26040), (61, 26115), (108, 26358), (110, 26367), (114, 26388), (119, 26409), (121, 26418), (133, 26481), (153, 26574), (154, 26577), (163, 26631), (166, 26649), (198, 26781), (210, 26829), (219, 26871), (220, 26877), (221, 26880), (228, 26919), (230, 26937), (235, 26952), (236, 26958), (239, 26967), (242, 26982), (253, 27027), (277, 27132), (287, 27168), (302, 27228), (304, 27237), (309, 27264), (316, 27306), (321, 27327),

Gene: HogWash\_28 Start: 26229, Stop: 27662, Start Num: 25

Candidate Starts for HogWash\_28:

(Start: 25 @26229 has 339 MA's), (35, 26286), (40, 26310), (45, 26334), (61, 26409), (108, 26652), (110, 26661), (114, 26682), (119, 26703), (121, 26712), (133, 26775), (153, 26868), (163, 26925), (166, 26943), (210, 27123), (219, 27165), (220, 27171), (221, 27174), (228, 27213), (230, 27231), (235, 27246), (236, 27252), (239, 27261), (242, 27276), (253, 27321), (277, 27426), (287, 27462), (302, 27522), (304, 27531), (309, 27558), (316, 27600), (321, 27621),

Gene: Holeinone\_30 Start: 27468, Stop: 28904, Start Num: 26

Candidate Starts for Holeinone\_30:

(Start: 26 @27468 has 105 MA's), (32, 27501), (35, 27525), (36, 27528), (40, 27549), (44, 27570), (51, 27603), (60, 27648), (63, 27657), (77, 27720), (109, 27900), (110, 27903), (114, 27924), (120, 27948), (121, 27954), (123, 27972), (130, 28002), (131, 28005), (134, 28020), (136, 28026), (150, 28095), (158, 28149), (163, 28167), (166, 28185), (167, 28188), (172, 28212), (184, 28266), (195, 28305), (201, 28323), (206, 28344), (218, 28401), (219, 28407), (221, 28416), (230, 28473), (244, 28524), (247, 28533), (254, 28566), (257, 28575), (271, 28641), (282, 28683), (287, 28704), (290, 28716), (292, 28734), (304, 28773), (315, 28839), (316, 28842), (322, 28872),

Gene: Horchata\_29 Start: 26214, Stop: 27647, Start Num: 25

Candidate Starts for Horchata\_29:

(Start: 25 @26214 has 339 MA's), (35, 26271), (40, 26295), (45, 26319), (61, 26394), (101, 26610), (108, 26637), (110, 26646), (114, 26667), (119, 26688), (121, 26697), (133, 26760), (153, 26853), (163, 26910), (166, 26928), (198, 27060), (210, 27108), (219, 27150), (220, 27156), (221, 27159), (228, 27198), (235, 27231), (236, 27237), (239, 27246), (242, 27261), (253, 27306), (277, 27411), (287, 27447), (302, 27507), (304, 27516), (316, 27585),

Gene: Hosp\_022 Start: 23250, Stop: 24683, Start Num: 25

Candidate Starts for Hosp\_022:

(Start: 25 @23250 has 339 MA's), (35, 23307), (38, 23325), (48, 23367), (74, 23493), (77, 23505), (79, 23532), (91, 23592), (101, 23646), (109, 23679), (110, 23682), (111, 23688), (121, 23733), (136, 23805), (156, 23901), (166, 23964), (167, 23967), (171, 23988), (174, 24000), (183, 24036), (202, 24105), (207, 24126), (219, 24186), (228, 24234), (235, 24267), (236, 24273), (244, 24303), (254, 24345), (279, 24453), (292, 24513), (303, 24549), (304, 24552), (315, 24618),

Gene: Hydro\_26 Start: 26474, Stop: 27907, Start Num: 25

Candidate Starts for Hydro\_26:

(Start: 25 @26474 has 339 MA's), (32, 26507), (35, 26531), (36, 26534), (41, 26564), (51, 26606), (53, 26612), (61, 26654), (70, 26687), (77, 26729), (96, 26846), (101, 26870), (110, 26906), (111, 26912), (119, 26948), (121, 26957), (131, 27008), (139, 27050), (160, 27161), (165, 27179), (166, 27188), (167, 27191), (171, 27212), (184, 27269), (186, 27281), (200, 27323), (202, 27329), (219, 27410), (220, 27416), (223, 27440), (228, 27458), (235, 27491), (239, 27506), (241, 27518), (254, 27569), (258, 27581), (286, 27704), (287, 27707), (303, 27773), (307, 27794), (315, 27842), (324, 27881), (328, 27902),

Gene: ImtiyazSitla\_28 Start: 25776, Stop: 27209, Start Num: 25

Candidate Starts for ImtiyazSitla\_28:

(Start: 25 @25776 has 339 MA's), (35, 25833), (40, 25857), (45, 25881), (61, 25956), (108, 26199), (110, 26208), (114, 26229), (119, 26250), (121, 26259), (133, 26322), (153, 26415), (154, 26418), (163, 26472), (166, 26490), (198, 26622), (210, 26670), (219, 26712), (220, 26718), (221, 26721), (228, 26760), (230, 26778), (235, 26793), (236, 26799), (239, 26808), (242, 26823), (253, 26868), (277, 26973), (287, 27009), (302, 27069), (304, 27078), (309, 27105), (316, 27147), (321, 27168),

Gene: Imvubu\_22 Start: 23956, Stop: 25392, Start Num: 25

Candidate Starts for Imvubu\_22:

(Start: 25 @23956 has 339 MA's), (38, 24031), (58, 24118), (60, 24133), (61, 24136), (79, 24238), (101, 24355), (110, 24391), (114, 24412), (121, 24442), (131, 24493), (144, 24556), (163, 24655), (167, 24676), (183, 24745), (184, 24754), (189, 24772), (200, 24808), (202, 24814), (205, 24829), (207, 24835), (223, 24925), (244, 25012), (247, 25021), (258, 25066), (265, 25102), (279, 25162), (292, 25222), (322, 25360), (324, 25366), (325, 25369),

Gene: Inchworm\_29 Start: 26212, Stop: 27645, Start Num: 25

Candidate Starts for Inchworm\_29:

(Start: 25 @26212 has 339 MA's), (35, 26269), (40, 26293), (45, 26317), (61, 26392), (108, 26635), (110, 26644), (114, 26665), (119, 26686), (121, 26695), (133, 26758), (153, 26851), (154, 26854), (163, 26908), (166, 26926), (198, 27058), (210, 27106), (219, 27148), (220, 27154), (221, 27157), (228, 27196), (230, 27214), (235, 27229), (236, 27235), (239, 27244), (242, 27259), (253, 27304), (277, 27409), (287, 27445), (302, 27505), (304, 27514), (316, 27583),

Gene: Indlovu\_26 Start: 26231, Stop: 27664, Start Num: 25

Candidate Starts for Indlovu\_26:

(Start: 25 @26231 has 339 MA's), (35, 26288), (37, 26300), (53, 26369), (61, 26411), (70, 26444), (109, 26660), (110, 26663), (119, 26705), (121, 26714), (134, 26780), (167, 26948), (170, 26963), (183, 27017), (184, 27026), (219, 27167), (220, 27173), (227, 27212), (236, 27254), (239, 27263), (244, 27284), (253, 27323), (279, 27434), (287, 27464), (315, 27599), (322, 27632),

Gene: Inverness\_29 Start: 26226, Stop: 27659, Start Num: 25

Candidate Starts for Inverness\_29:

(Start: 25 @26226 has 339 MA's), (35, 26283), (40, 26307), (45, 26331), (61, 26406), (101, 26622), (108, 26649), (110, 26658), (114, 26679), (119, 26700), (121, 26709), (133, 26772), (153, 26865), (163, 26922), (166, 26940), (198, 27072), (210, 27120), (219, 27162), (220, 27168), (221, 27171), (228, 27210), (235, 27243), (236, 27249), (239, 27258), (242, 27273), (253, 27318), (277, 27423), (287, 27459), (302, 27519), (304, 27528), (316, 27597),

Gene: Iridessa\_29 Start: 25925, Stop: 27358, Start Num: 25

Candidate Starts for Iridessa\_29:

(Start: 25 @25925 has 339 MA's), (35, 25982), (40, 26006), (45, 26030), (61, 26105), (101, 26321), (108, 26348), (110, 26357), (114, 26378), (119, 26399), (121, 26408), (133, 26471), (153, 26564), (154, 26567), (163, 26621), (166, 26639), (198, 26771), (210, 26819), (219, 26861), (220, 26867), (221, 26870), (228, 26909), (235, 26942), (236, 26948), (239, 26957), (242, 26972), (253, 27017), (277, 27122), (287, 27158), (302, 27218), (304, 27227), (316, 27296),

Gene: Iridoclysis\_29 Start: 26206, Stop: 27639, Start Num: 25

Candidate Starts for Iridoclysis\_29:

(Start: 25 @26206 has 339 MA's), (35, 26263), (40, 26287), (45, 26311), (61, 26386), (101, 26602), (108, 26629), (110, 26638), (114, 26659), (119, 26680), (121, 26689), (133, 26752), (153, 26845), (163, 26902), (166, 26920), (198, 27052), (210, 27100), (219, 27142), (220, 27148), (221, 27151), (228, 27190), (235, 27223), (236, 27229), (239, 27238), (242, 27253), (253, 27298), (277, 27403), (287, 27439), (302, 27499), (304, 27508), (316, 27577),

Gene: IsaacEli\_29 Start: 26230, Stop: 27663, Start Num: 25

Candidate Starts for IsaacEli\_29:

(Start: 25 @26230 has 339 MA's), (35, 26287), (40, 26311), (45, 26335), (61, 26410), (101, 26626), (108, 26653), (110, 26662), (114, 26683), (119, 26704), (121, 26713), (133, 26776), (153, 26869), (163, 26926), (166, 26944), (198, 27076), (210, 27124), (219, 27166), (220, 27172), (221, 27175), (228, 27214), (235, 27247), (236, 27253), (239, 27262), (242, 27277), (253, 27322), (277, 27427), (287, 27463), (302, 27523), (304, 27532), (316, 27601),

Gene: ItsyBitsy1\_30 Start: 27470, Stop: 28906, Start Num: 26

Candidate Starts for ItsyBitsy1\_30:

(Start: 26 @27470 has 105 MA's), (32, 27503), (35, 27527), (36, 27530), (40, 27551), (44, 27572), (51, 27605), (60, 27650), (61, 27653), (63, 27659), (77, 27722), (109, 27902), (110, 27905), (114, 27926), (120, 27950), (121, 27956), (123, 27974), (130, 28004), (131, 28007), (134, 28022), (136, 28028), (150, 28097), (158, 28151), (163, 28169), (166, 28187), (167, 28190), (172, 28214), (184, 28268), (195, 28307), (201, 28325), (206, 28346), (218, 28403), (219, 28409), (221, 28418), (230, 28475), (244, 28526), (247, 28535), (254, 28568), (257, 28577), (271, 28643), (282, 28685), (287, 28706), (290, 28718), (292, 28736), (304, 28775), (315, 28841), (316, 28844), (322, 28874),

Gene: JAMaL\_26 Start: 26644, Stop: 28077, Start Num: 25

Candidate Starts for JAMaL\_26:

(Start: 25 @26644 has 339 MA's), (32, 26677), (35, 26701), (36, 26704), (41, 26734), (51, 26776), (53, 26782), (61, 26824), (70, 26857), (77, 26899), (79, 26926), (101, 27040), (109, 27073), (110, 27076), (111, 27082), (119, 27118), (121, 27127), (131, 27178), (139, 27220), (160, 27331), (165, 27349), (166, 27358), (167, 27361), (171, 27382), (184, 27439), (186, 27451), (200, 27493), (202, 27499), (219, 27580), (220, 27586), (223, 27610), (228, 27628), (235, 27661), (241, 27688), (254, 27739), (258, 27751), (286, 27874), (287, 27877), (303, 27943), (307, 27964), (315, 28012), (324, 28051), (328, 28072),

Gene: JDog\_28 Start: 25939, Stop: 27372, Start Num: 25

Candidate Starts for JDog\_28:

(Start: 25 @25939 has 339 MA's), (35, 25996), (40, 26020), (45, 26044), (61, 26119), (108, 26362), (110, 26371), (114, 26392), (119, 26413), (121, 26422), (133, 26485), (153, 26578), (163, 26635), (166, 26653), (210, 26833), (219, 26875), (220, 26881), (221, 26884), (228, 26923), (230, 26941), (235, 26956), (236, 26962), (239, 26971), (242, 26986), (253, 27031), (277, 27136), (287, 27172), (302, 27232), (304, 27241), (309, 27268), (316, 27310), (321, 27331),

Gene: JacAttac\_29 Start: 26212, Stop: 27645, Start Num: 25

Candidate Starts for JacAttac\_29:

(Start: 25 @26212 has 339 MA's), (35, 26269), (40, 26293), (45, 26317), (61, 26392), (101, 26608), (108, 26635), (110, 26644), (114, 26665), (119, 26686), (121, 26695), (133, 26758), (153, 26851), (163, 26908), (166, 26926), (198, 27058), (210, 27106), (219, 27148), (220, 27154), (221, 27157), (228, 27196), (235, 27229), (236, 27235), (239, 27244), (242, 27259), (253, 27304), (277, 27409), (287, 27445), (302, 27505), (304, 27514), (316, 27583),

Gene: Jackstina\_26 Start: 26069, Stop: 27499, Start Num: 26

Candidate Starts for Jackstina\_26:

(Start: 26 @26069 has 105 MA's), (35, 26126), (40, 26150), (41, 26159), (61, 26246), (89, 26396), (93, 26423), (110, 26498), (117, 26528), (121, 26549), (123, 26567), (136, 26621), (143, 26654), (167, 26783), (184, 26861), (186, 26873), (193, 26894), (197, 26909), (202, 26921), (219, 27002), (220, 27008), (229, 27056), (230, 27068), (241, 27110), (247, 27128), (254, 27161), (265, 27209), (279, 27269), (283, 27284), (287, 27299), (288, 27302), (316, 27437), (322, 27467),

Gene: JaguarMi\_26 Start: 25942, Stop: 27375, Start Num: 25

Candidate Starts for JaguarMi\_26:

(Start: 25 @25942 has 339 MA's), (32, 25975), (35, 25999), (36, 26002), (41, 26032), (51, 26074), (53, 26080), (56, 26095), (61, 26122), (70, 26155), (77, 26197), (79, 26224), (101, 26338), (109, 26371), (110, 26374), (111, 26380), (119, 26416), (121, 26425), (131, 26476), (160, 26629), (165, 26647), (166, 26656), (167, 26659), (171, 26680), (175, 26698), (183, 26728), (184, 26737), (186, 26749), (200, 26791), (202, 26797), (219, 26878), (220, 26884), (223, 26908), (227, 26923), (228, 26926), (235, 26959), (239, 26974), (241, 26986), (254, 27037), (258, 27049), (282, 27154), (286, 27172), (287, 27175), (303, 27241), (307, 27262), (315, 27310), (322, 27343), (324, 27349), (328, 27370),

Gene: JakeO\_28 Start: 25942, Stop: 27375, Start Num: 25

Candidate Starts for JakeO\_28:

(Start: 25 @25942 has 339 MA's), (35, 25999), (40, 26023), (45, 26047), (61, 26122), (108, 26365), (110, 26374), (114, 26395), (119, 26416), (121, 26425), (133, 26488), (153, 26581), (154, 26584), (163, 26638), (166, 26656), (198, 26788), (210, 26836), (219, 26878), (220, 26884), (221, 26887), (228, 26926), (230, 26944), (235, 26959), (236, 26965), (239, 26974), (242, 26989), (253, 27034), (277, 27139), (287, 27175), (302, 27235), (304, 27244), (309, 27271), (316, 27313), (321, 27334),

Gene: JangoPhett\_29 Start: 26213, Stop: 27646, Start Num: 25

Candidate Starts for JangoPhett\_29:

(Start: 25 @26213 has 339 MA's), (35, 26270), (40, 26294), (45, 26318), (61, 26393), (101, 26609), (108, 26636), (110, 26645), (114, 26666), (119, 26687), (121, 26696), (133, 26759), (153, 26852), (163, 26909), (166, 26927), (198, 27059), (210, 27107), (219, 27149), (220, 27155), (221, 27158), (228, 27197), (230, 27215), (235, 27230), (236, 27236), (239, 27245), (242, 27260), (253, 27305), (277, 27410), (287, 27446), (302, 27506), (304, 27515), (316, 27584),

Gene: JellyBelly\_25 Start: 23437, Stop: 24966, Start Num: 10

Candidate Starts for JellyBelly\_25:

(Start: 10 @23437 has 3 MA's), (14, 23470), (Start: 27 @23539 has 38 MA's), (59, 23701), (110, 23965), (115, 23989), (119, 24007), (121, 24016), (136, 24088), (145, 24139), (163, 24229), (165, 24238), (167, 24250), (183, 24319), (186, 24340), (197, 24376), (218, 24463), (219, 24469), (220, 24475), (228, 24517), (235, 24550), (236, 24556), (239, 24565), (254, 24628), (279, 24736), (287, 24766), (315, 24901),

Gene: Jeon\_22 Start: 24764, Stop: 26200, Start Num: 27

Candidate Starts for Jeon\_22:

(Start: 27 @24764 has 38 MA's), (31, 24785), (60, 24941), (63, 24950), (82, 25052), (86, 25070), (93, 25121), (99, 25151), (108, 25187), (110, 25196), (115, 25220), (117, 25226), (131, 25298), (163, 25460), (164, 25466), (166, 25478), (167, 25481), (184, 25559), (186, 25571), (197, 25607), (203, 25622), (206, 25640), (219, 25703), (220, 25709), (227, 25748), (228, 25751), (230, 25769), (241, 25811), (244, 25820), (247, 25829), (254, 25862), (269, 25922), (271, 25937), (279, 25970), (287, 26000), (300, 26054), (303, 26066), (315, 26135), (316, 26138), (322, 26168),

Gene: Jesabah\_29 Start: 25945, Stop: 27378, Start Num: 25

Candidate Starts for Jesabah\_29:

(Start: 25 @25945 has 339 MA's), (35, 26002), (40, 26026), (45, 26050), (61, 26125), (101, 26341), (108, 26368), (110, 26377), (114, 26398), (119, 26419), (121, 26428), (133, 26491), (153, 26584), (154, 26587), (163, 26641), (166, 26659), (198, 26791), (210, 26839), (219, 26881), (220, 26887), (221, 26890), (228, 26929), (235, 26962), (236, 26968), (239, 26977), (242, 26992), (253, 27037), (277, 27142), (287, 27178), (302, 27238), (304, 27247), (316, 27316),

Gene: Jillium\_28 Start: 25936, Stop: 27369, Start Num: 25

Candidate Starts for Jillium\_28:

(Start: 25 @25936 has 339 MA's), (35, 25993), (40, 26017), (45, 26041), (61, 26116), (101, 26332), (108, 26359), (110, 26368), (114, 26389), (119, 26410), (121, 26419), (133, 26482), (153, 26575), (163, 26632), (166, 26650), (198, 26782), (210, 26830), (219, 26872), (220, 26878), (221, 26881), (228, 26920), (235, 26953), (236, 26959), (239, 26968), (242, 26983), (253, 27028), (277, 27133), (287, 27169), (302, 27229), (304, 27238), (316, 27307),

Gene: Jiminy\_28 Start: 25780, Stop: 27213, Start Num: 25

Candidate Starts for Jiminy\_28:

(Start: 25 @25780 has 339 MA's), (35, 25837), (40, 25861), (45, 25885), (61, 25960), (101, 26176), (108, 26203), (110, 26212), (114, 26233), (119, 26254), (121, 26263), (133, 26326), (153, 26419), (166, 26494), (198, 26626), (210, 26674), (219, 26716), (220, 26722), (221, 26725), (228, 26764), (230, 26782), (235, 26797), (236, 26803), (239, 26812), (242, 26827), (253, 26872), (277, 26977), (287, 27013), (302, 27073), (304, 27082), (309, 27109), (316, 27151), (321, 27172),

Gene: Jiraiya\_28 Start: 25933, Stop: 27366, Start Num: 25

Candidate Starts for Jiraiya\_28:

(Start: 25 @25933 has 339 MA's), (35, 25990), (40, 26014), (45, 26038), (61, 26113), (108, 26356), (110, 26365), (114, 26386), (119, 26407), (121, 26416), (133, 26479), (153, 26572), (154, 26575), (163, 26629), (166, 26647), (198, 26779), (210, 26827), (219, 26869), (220, 26875), (221, 26878), (228, 26917), (230, 26935), (235, 26950), (236, 26956), (239, 26965), (242, 26980), (253, 27025), (277, 27130), (287, 27166), (302, 27226), (304, 27235), (309, 27262), (316, 27304), (321, 27325),

Gene: JohnLord\_27 Start: 23756, Stop: 25150, Start Num: 32

Candidate Starts for JohnLord\_27:

(Start: 26 @23723 has 105 MA's), (32, 23756), (40, 23804), (43, 23819), (44, 23825), (53, 23867), (63, 23909), (70, 23930), (77, 23972), (108, 24140), (109, 24146), (121, 24200), (131, 24251), (134, 24266), (136, 24272), (144, 24314), (158, 24395), (163, 24413), (165, 24422), (183, 24503), (186, 24524), (197, 24560), (200, 24566), (209, 24602), (219, 24653), (221, 24662), (222, 24680), (230, 24719), (244, 24770), (247, 24779), (254, 24812), (271, 24887), (287, 24950), (290, 24962), (316, 25088), (322, 25118),

Gene: Jolie1\_024 Start: 25046, Stop: 26479, Start Num: 25

Candidate Starts for Jolie1\_024:

(Start: 25 @25046 has 339 MA's), (35, 25103), (38, 25121), (48, 25163), (74, 25289), (79, 25328), (91, 25388), (101, 25442), (109, 25475), (110, 25478), (121, 25529), (136, 25601), (156, 25697), (166, 25760), (167, 25763), (168, 25766), (171, 25784), (174, 25796), (183, 25832), (200, 25895), (202, 25901), (207, 25922), (219, 25982), (228, 26030), (235, 26063), (236, 26069), (244, 26099), (254, 26141), (279, 26249), (292, 26309), (303, 26345), (304, 26348), (315, 26414),

Gene: Jollymon\_57 Start: 36171, Stop: 37457, Start Num: 26

Candidate Starts for Jollymon\_57:

(Start: 26 @36171 has 105 MA's), (29, 36189), (83, 36408), (89, 36450), (118, 36582), (148, 36723), (179, 36870), (192, 36927), (244, 37104), (257, 37155), (272, 37212), (273, 37215), (281, 37245), (284, 37260), (295, 37302), (300, 37317), (325, 37428), (327, 37443),

Gene: JoyceMaria\_26 Start: 26460, Stop: 27893, Start Num: 25

Candidate Starts for JoyceMaria\_26:

(Start: 25 @26460 has 339 MA's), (32, 26493), (35, 26517), (36, 26520), (41, 26550), (51, 26592), (53, 26598), (61, 26640), (70, 26673), (77, 26715), (96, 26832), (101, 26856), (109, 26889), (110, 26892), (111, 26898), (119, 26934), (121, 26943), (131, 26994), (139, 27036), (160, 27147), (166, 27174), (167, 27177), (171, 27198), (184, 27255), (186, 27267), (200, 27309), (202, 27315), (219, 27396), (220, 27402), (223, 27426), (228, 27444), (235, 27477), (239, 27492), (241, 27504), (254, 27555), (256, 27561), (258, 27567), (282, 27672), (286, 27690), (287, 27693), (303, 27759), (307, 27780),

(315, 27828), (324, 27867), (328, 27888),

Gene: KLucky39\_29 Start: 26224, Stop: 27657, Start Num: 25

Candidate Starts for KLucky39\_29:

(Start: 25 @26224 has 339 MA's), (35, 26281), (40, 26305), (45, 26329), (61, 26404), (101, 26620), (108, 26647), (110, 26656), (114, 26677), (119, 26698), (121, 26707), (133, 26770), (153, 26863), (163, 26920), (166, 26938), (198, 27070), (210, 27118), (219, 27160), (220, 27166), (221, 27169), (228, 27208), (235, 27241), (236, 27247), (239, 27256), (242, 27271), (253, 27316), (277, 27421), (287, 27457), (302, 27517), (304, 27526), (316, 27595),

Gene: Kahve\_28 Start: 25940, Stop: 27373, Start Num: 25

Candidate Starts for Kahve\_28:

(Start: 25 @25940 has 339 MA's), (35, 25997), (40, 26021), (45, 26045), (61, 26120), (101, 26336), (108, 26363), (110, 26372), (114, 26393), (119, 26414), (121, 26423), (133, 26486), (153, 26579), (163, 26636), (166, 26654), (198, 26786), (210, 26834), (219, 26876), (220, 26882), (221, 26885), (228, 26924), (235, 26957), (236, 26963), (239, 26972), (242, 26987), (253, 27032), (277, 27137), (287, 27173), (302, 27233), (304, 27242), (316, 27311),

Gene: Kailash\_29 Start: 26278, Stop: 27711, Start Num: 25

Candidate Starts for Kailash\_29:

(Start: 25 @26278 has 339 MA's), (35, 26335), (40, 26359), (45, 26383), (61, 26458), (108, 26701), (110, 26710), (114, 26731), (119, 26752), (121, 26761), (133, 26824), (153, 26917), (163, 26974), (166, 26992), (198, 27124), (210, 27172), (219, 27214), (220, 27220), (221, 27223), (228, 27262), (230, 27280), (235, 27295), (236, 27301), (239, 27310), (242, 27325), (253, 27370), (277, 27475), (287, 27511), (302, 27571), (304, 27580), (309, 27607), (316, 27649), (321, 27670),

Gene: Kaleb\_30 Start: 27603, Stop: 29039, Start Num: 26

Candidate Starts for Kaleb\_30:

(Start: 26 @27603 has 105 MA's), (32, 27636), (35, 27660), (36, 27663), (40, 27684), (44, 27705), (51, 27738), (60, 27783), (77, 27855), (109, 28035), (110, 28038), (114, 28059), (120, 28083), (121, 28089), (123, 28107), (130, 28137), (131, 28140), (134, 28155), (136, 28161), (150, 28230), (158, 28284), (163, 28302), (166, 28320), (167, 28323), (172, 28347), (184, 28401), (195, 28440), (201, 28458), (206, 28479), (218, 28536), (219, 28542), (221, 28551), (230, 28608), (244, 28659), (247, 28668), (254, 28701), (257, 28710), (271, 28776), (282, 28818), (287, 28839), (290, 28851), (292, 28869), (304, 28908), (315, 28974), (316, 28977), (322, 29007),

Gene: Kamiyu\_29 Start: 26115, Stop: 27545, Start Num: 26

Candidate Starts for Kamiyu\_29:

(Start: 26 @26115 has 105 MA's), (35, 26172), (40, 26196), (41, 26205), (61, 26292), (89, 26442), (93, 26469), (110, 26544), (117, 26574), (121, 26595), (123, 26613), (136, 26667), (143, 26700), (145, 26718), (167, 26829), (184, 26907), (186, 26919), (193, 26940), (197, 26955), (202, 26967), (219, 27048), (220, 27054), (230, 27114), (241, 27156), (247, 27174), (254, 27207), (265, 27255), (279, 27315), (283, 27330), (287, 27345), (288, 27348), (303, 27411), (316, 27483), (322, 27513),

Gene: KarasumaRum\_30 Start: 26607, Stop: 28040, Start Num: 25

Candidate Starts for KarasumaRum\_30:

(Start: 25 @26607 has 339 MA's), (44, 26709), (76, 26859), (79, 26889), (85, 26907), (91, 26949), (110, 27039), (111, 27045), (119, 27081), (121, 27090), (135, 27159), (167, 27324), (202, 27462), (206, 27480), (219, 27543), (244, 27660), (246, 27666), (279, 27810), (290, 27852), (293, 27873), (322, 28008), (324, 28014),

Gene: Karn\_28 Start: 25940, Stop: 27373, Start Num: 25

Candidate Starts for Karn\_28:

(Start: 25 @25940 has 339 MA's), (35, 25997), (40, 26021), (45, 26045), (61, 26120), (108, 26363), (110, 26372), (114, 26393), (119, 26414), (121, 26423), (133, 26486), (153, 26579), (154, 26582), (163, 26636), (166, 26654), (198, 26786), (210, 26834), (219, 26876), (220, 26882), (221, 26885), (228, 26924), (230, 26942), (235, 26957), (236, 26963), (239, 26972), (242, 26987), (253, 27032), (277, 27137), (287, 27173), (302, 27233), (304, 27242), (309, 27269), (316, 27311), (321, 27332),

Gene: Katniss\_29 Start: 26239, Stop: 27672, Start Num: 25

Candidate Starts for Katniss\_29:

(Start: 25 @26239 has 339 MA's), (35, 26296), (40, 26320), (45, 26344), (61, 26419), (101, 26635), (108, 26662), (110, 26671), (114, 26692), (119, 26713), (121, 26722), (133, 26785), (153, 26878), (163, 26935), (166, 26953), (198, 27085), (210, 27133), (219, 27175), (220, 27181), (221, 27184), (228, 27223), (235, 27256), (236, 27262), (239, 27271), (242, 27286), (253, 27331), (277, 27436), (287, 27472), (302, 27532), (304, 27541), (316, 27610),

Gene: KayaCho\_24 Start: 25048, Stop: 26481, Start Num: 25

Candidate Starts for KayaCho\_24:

(Start: 25 @25048 has 339 MA's), (35, 25105), (38, 25123), (48, 25165), (51, 25180), (79, 25330), (91, 25390), (101, 25444), (110, 25480), (111, 25486), (121, 25531), (136, 25603), (167, 25765), (168, 25768), (174, 25798), (183, 25834), (202, 25903), (207, 25924), (219, 25984), (225, 26023), (228, 26032), (235, 26065), (236, 26071), (244, 26101), (254, 26143), (279, 26251), (292, 26311), (303, 26347), (304, 26350), (315, 26416), (316, 26419),

Gene: Keitherie\_29 Start: 26271, Stop: 27704, Start Num: 25

Candidate Starts for Keitherie\_29:

(Start: 25 @26271 has 339 MA's), (35, 26328), (40, 26352), (45, 26376), (61, 26451), (101, 26667), (108, 26694), (110, 26703), (114, 26724), (119, 26745), (121, 26754), (133, 26817), (153, 26910), (166, 26985), (198, 27117), (210, 27165), (219, 27207), (220, 27213), (221, 27216), (228, 27255), (230, 27273), (235, 27288), (236, 27294), (239, 27303), (242, 27318), (253, 27363), (277, 27468), (287, 27504), (302, 27564), (304, 27573), (309, 27600), (316, 27642), (321, 27663),

Gene: Khan1\_29 Start: 25960, Stop: 27393, Start Num: 25

Candidate Starts for Khan1\_29:

(Start: 25 @25960 has 339 MA's), (35, 26017), (40, 26041), (45, 26065), (61, 26140), (108, 26383), (110, 26392), (114, 26413), (119, 26434), (121, 26443), (133, 26506), (153, 26599), (154, 26602), (163, 26656), (166, 26674), (198, 26806), (210, 26854), (219, 26896), (220, 26902), (221, 26905), (228, 26944), (230, 26962), (235, 26977), (236, 26983), (239, 26992), (242, 27007), (253, 27052), (277, 27157), (287, 27193), (302, 27253), (304, 27262), (309, 27289), (316, 27331), (321, 27352),

Gene: Kheth\_30 Start: 27488, Stop: 28924, Start Num: 26

Candidate Starts for Kheth\_30:

(Start: 26 @27488 has 105 MA's), (32, 27521), (35, 27545), (36, 27548), (40, 27569), (44, 27590), (51, 27623), (60, 27668), (77, 27740), (109, 27920), (110, 27923), (114, 27944), (120, 27968), (121, 27974), (123, 27992), (130, 28022), (131, 28025), (134, 28040), (136, 28046), (150, 28115), (158, 28169), (163, 28187), (166, 28205), (167, 28208), (172, 28232), (184, 28286), (195, 28325), (201, 28343), (206, 28364), (218, 28421), (219, 28427), (221, 28436), (230, 28493), (244, 28544), (247, 28553), (254, 28586), (257, 28595), (271, 28661), (282, 28703), (287, 28724), (290, 28736), (292, 28754), (304, 28793), (315, 28859), (316, 28862), (322, 28892),

Gene: Kikipoo\_29 Start: 26230, Stop: 27663, Start Num: 25

Candidate Starts for Kikipoo\_29:

(Start: 25 @26230 has 339 MA's), (35, 26287), (40, 26311), (45, 26335), (61, 26410), (101, 26626), (108, 26653), (110, 26662), (114, 26683), (119, 26704), (121, 26713), (133, 26776), (153, 26869), (163, 26926), (166, 26944), (198, 27076), (210, 27124), (219, 27166), (220, 27172), (221, 27175),

(228, 27214), (235, 27247), (236, 27253), (239, 27262), (242, 27277), (253, 27322), (277, 27427), (287, 27463), (302, 27523), (304, 27532), (316, 27601),

Gene: Kimbrough\_29 Start: 25932, Stop: 27365, Start Num: 25

Candidate Starts for Kimbrough\_29:

(Start: 25 @25932 has 339 MA's), (35, 25989), (40, 26013), (45, 26037), (61, 26112), (101, 26328), (108, 26355), (110, 26364), (114, 26385), (119, 26406), (121, 26415), (133, 26478), (153, 26571), (163, 26628), (166, 26646), (198, 26778), (210, 26826), (219, 26868), (220, 26874), (221, 26877), (228, 26916), (235, 26949), (236, 26955), (239, 26964), (242, 26979), (253, 27024), (277, 27129), (287, 27165), (302, 27225), (304, 27234), (316, 27303),

Gene: KingTut\_20 Start: 21601, Stop: 23034, Start Num: 25

Candidate Starts for KingTut\_20:

(Start: 25 @21601 has 339 MA's), (35, 21658), (40, 21682), (45, 21706), (61, 21781), (101, 21997), (108, 22024), (110, 22033), (114, 22054), (119, 22075), (121, 22084), (133, 22147), (153, 22240), (163, 22297), (166, 22315), (198, 22447), (210, 22495), (219, 22537), (220, 22543), (221, 22546), (228, 22585), (235, 22618), (236, 22624), (239, 22633), (242, 22648), (253, 22693), (277, 22798), (287, 22834), (302, 22894), (304, 22903), (316, 22972),

Gene: KingVeVeVe\_29 Start: 26205, Stop: 27638, Start Num: 25

Candidate Starts for KingVeVeVe\_29:

(Start: 25 @26205 has 339 MA's), (35, 26262), (40, 26286), (45, 26310), (61, 26385), (101, 26601), (108, 26628), (110, 26637), (114, 26658), (119, 26679), (121, 26688), (133, 26751), (153, 26844), (163, 26901), (166, 26919), (198, 27051), (210, 27099), (219, 27141), (220, 27147), (221, 27150), (228, 27189), (235, 27222), (236, 27228), (239, 27237), (242, 27252), (253, 27297), (277, 27402), (287, 27438), (302, 27498), (304, 27507), (316, 27576),

Gene: KingstonB\_55 Start: 35650, Stop: 36936, Start Num: 26

Candidate Starts for KingstonB\_55:

(Start: 26 @35650 has 105 MA's), (29, 35668), (83, 35887), (89, 35929), (118, 36061), (148, 36202), (179, 36349), (192, 36406), (244, 36583), (257, 36634), (272, 36691), (273, 36694), (281, 36724), (284, 36739), (295, 36781), (300, 36796), (325, 36907), (327, 36922),

Gene: KlimbOn\_29 Start: 26218, Stop: 27651, Start Num: 25

Candidate Starts for KlimbOn\_29:

(Start: 25 @26218 has 339 MA's), (35, 26275), (40, 26299), (45, 26323), (61, 26398), (101, 26614), (108, 26641), (110, 26650), (114, 26671), (119, 26692), (121, 26701), (133, 26764), (153, 26857), (163, 26914), (166, 26932), (198, 27064), (210, 27112), (219, 27154), (220, 27160), (221, 27163), (228, 27202), (235, 27235), (236, 27241), (239, 27250), (242, 27265), (253, 27310), (277, 27415), (287, 27451), (302, 27511), (304, 27520), (316, 27589),

Gene: Kloppinator\_29 Start: 26241, Stop: 27674, Start Num: 25

Candidate Starts for Kloppinator\_29:

(Start: 25 @26241 has 339 MA's), (35, 26298), (40, 26322), (45, 26346), (61, 26421), (101, 26637), (108, 26664), (110, 26673), (114, 26694), (119, 26715), (121, 26724), (133, 26787), (153, 26880), (163, 26937), (166, 26955), (198, 27087), (210, 27135), (219, 27177), (220, 27183), (221, 27186), (228, 27225), (235, 27258), (236, 27264), (239, 27273), (242, 27288), (253, 27333), (277, 27438), (287, 27474), (302, 27534), (304, 27543), (316, 27612),

Gene: Knocker\_30 Start: 28907, Stop: 30340, Start Num: 25

Candidate Starts for Knocker\_30:

(Start: 25 @28907 has 339 MA's), (35, 28964), (36, 28967), (50, 29036), (53, 29045), (59, 29072), (61, 29087), (72, 29138), (109, 29336), (110, 29339), (111, 29345), (114, 29360), (119, 29381), (121,

29390), (146, 29516), (153, 29546), (154, 29549), (162, 29600), (163, 29603), (183, 29693), (184, 29702), (186, 29714), (200, 29756), (203, 29765), (219, 29843), (227, 29888), (228, 29891), (236, 29930), (239, 29939), (244, 29960), (250, 29981), (253, 29999), (258, 30014), (263, 30038), (270, 30074), (277, 30104), (279, 30110), (286, 30137), (307, 30227), (316, 30278), (325, 30317),

Gene: Kolhan\_30 Start: 27482, Stop: 28918, Start Num: 26

Candidate Starts for Kolhan\_30:

(Start: 26 @27482 has 105 MA's), (32, 27515), (35, 27539), (36, 27542), (40, 27563), (44, 27584), (51, 27617), (60, 27662), (63, 27671), (77, 27734), (109, 27914), (110, 27917), (114, 27938), (120, 27962), (121, 27968), (123, 27986), (130, 28016), (131, 28019), (136, 28040), (150, 28109), (158, 28163), (163, 28181), (166, 28199), (167, 28202), (172, 28226), (184, 28280), (195, 28319), (201, 28337), (206, 28358), (218, 28415), (219, 28421), (221, 28430), (230, 28487), (244, 28538), (247, 28547), (254, 28580), (257, 28589), (271, 28655), (282, 28697), (287, 28718), (290, 28730), (292, 28748), (304, 28787), (315, 28853), (316, 28856), (322, 28886),

Gene: Kronus\_28 Start: 26729, Stop: 28159, Start Num: 26

Candidate Starts for Kronus\_28:

(Start: 26 @26729 has 105 MA's), (35, 26786), (40, 26810), (41, 26819), (61, 26906), (89, 27056), (93, 27083), (110, 27158), (117, 27188), (121, 27209), (123, 27227), (136, 27281), (143, 27314), (167, 27443), (184, 27521), (186, 27533), (193, 27554), (197, 27569), (202, 27581), (219, 27662), (220, 27668), (230, 27728), (241, 27770), (247, 27788), (254, 27821), (265, 27869), (279, 27929), (283, 27944), (287, 27959), (288, 27962), (316, 28097), (322, 28127),

Gene: Kubulix\_38 Start: 26607, Stop: 27815, Start Num: 27

Candidate Starts for Kubulix\_38:

(Start: 27 @26607 has 38 MA's), (32, 26637), (37, 26673), (89, 26868), (104, 26934), (105, 26937), (112, 26970), (113, 26973), (114, 26982), (118, 27000), (129, 27042), (134, 27060), (148, 27123), (155, 27147), (159, 27177), (165, 27189), (169, 27213), (180, 27258), (199, 27333), (243, 27471), (244, 27474), (252, 27507), (280, 27606), (295, 27666), (313, 27747), (318, 27762), (323, 27783), (325, 27789),

Gene: Kwadwo\_28 Start: 25922, Stop: 27355, Start Num: 25

Candidate Starts for Kwadwo\_28:

(Start: 25 @25922 has 339 MA's), (35, 25979), (40, 26003), (45, 26027), (61, 26102), (101, 26318), (108, 26345), (110, 26354), (114, 26375), (119, 26396), (121, 26405), (133, 26468), (153, 26561), (163, 26618), (166, 26636), (198, 26768), (210, 26816), (219, 26858), (220, 26864), (221, 26867), (228, 26906), (235, 26939), (236, 26945), (239, 26954), (242, 26969), (253, 27014), (277, 27119), (287, 27155), (302, 27215), (304, 27224), (316, 27293),

Gene: Kwksand96\_28 Start: 25790, Stop: 27223, Start Num: 25

Candidate Starts for Kwksand96\_28:

(Start: 25 @25790 has 339 MA's), (35, 25847), (40, 25871), (45, 25895), (61, 25970), (108, 26213), (110, 26222), (114, 26243), (119, 26264), (121, 26273), (133, 26336), (153, 26429), (154, 26432), (163, 26486), (166, 26504), (198, 26636), (210, 26684), (219, 26726), (220, 26732), (221, 26735), (228, 26774), (230, 26792), (235, 26807), (236, 26813), (239, 26822), (242, 26837), (253, 26882), (277, 26987), (287, 27023), (302, 27083), (304, 27092), (309, 27119), (316, 27161), (321, 27182),

Gene: Labeouficaum\_28 Start: 25786, Stop: 27219, Start Num: 25

Candidate Starts for Labeouficaum\_28:

(Start: 25 @25786 has 339 MA's), (35, 25843), (40, 25867), (45, 25891), (61, 25966), (108, 26209), (110, 26218), (114, 26239), (119, 26260), (121, 26269), (133, 26332), (153, 26425), (154, 26428), (163, 26482), (166, 26500), (198, 26632), (210, 26680), (219, 26722), (220, 26728), (221, 26731), (228, 26770), (230, 26788), (235, 26803), (236, 26809), (239, 26818), (242, 26833), (253, 26878),

(277, 26983), (287, 27019), (302, 27079), (304, 27088), (309, 27115), (316, 27157), (321, 27178),

Gene: Lambano\_25 Start: 25445, Stop: 26878, Start Num: 25

Candidate Starts for Lambano\_25:

(Start: 25 @25445 has 339 MA's), (32, 25478), (35, 25502), (36, 25505), (41, 25535), (50, 25574), (51, 25577), (53, 25583), (61, 25625), (70, 25658), (77, 25700), (79, 25727), (101, 25841), (109, 25874), (110, 25877), (111, 25883), (119, 25919), (121, 25928), (131, 25979), (139, 26021), (156, 26096), (160, 26132), (165, 26150), (166, 26159), (167, 26162), (171, 26183), (184, 26240), (186, 26252), (200, 26294), (202, 26300), (219, 26381), (220, 26387), (223, 26411), (228, 26429), (235, 26462), (239, 26477), (241, 26489), (254, 26540), (258, 26552), (286, 26675), (287, 26678), (303, 26744), (307, 26765), (315, 26813), (324, 26852), (328, 26873),

Gene: Lars\_30 Start: 27593, Stop: 29029, Start Num: 26

Candidate Starts for Lars\_30:

(Start: 26 @27593 has 105 MA's), (32, 27626), (35, 27650), (36, 27653), (40, 27674), (44, 27695), (51, 27728), (60, 27773), (63, 27782), (77, 27845), (109, 28025), (110, 28028), (114, 28049), (120, 28073), (121, 28079), (123, 28097), (130, 28127), (131, 28130), (134, 28145), (136, 28151), (150, 28220), (158, 28274), (163, 28292), (166, 28310), (167, 28313), (172, 28337), (184, 28391), (195, 28430), (201, 28448), (206, 28469), (218, 28526), (219, 28532), (221, 28541), (230, 28598), (244, 28649), (247, 28658), (254, 28691), (257, 28700), (271, 28766), (282, 28808), (287, 28829), (290, 28841), (292, 28859), (304, 28898), (315, 28964), (316, 28967), (322, 28997),

Gene: Larson\_30 Start: 26269, Stop: 27702, Start Num: 25

Candidate Starts for Larson\_30:

(Start: 25 @26269 has 339 MA's), (35, 26326), (40, 26350), (45, 26374), (61, 26449), (101, 26665), (108, 26692), (110, 26701), (114, 26722), (119, 26743), (121, 26752), (133, 26815), (153, 26908), (166, 26983), (198, 27115), (210, 27163), (219, 27205), (220, 27211), (221, 27214), (228, 27253), (230, 27271), (235, 27286), (236, 27292), (239, 27301), (242, 27316), (253, 27361), (277, 27466), (287, 27502), (302, 27562), (304, 27571), (309, 27598), (316, 27640), (321, 27661),

Gene: LasagnaCat\_29 Start: 26224, Stop: 27657, Start Num: 25

Candidate Starts for LasagnaCat\_29:

(Start: 25 @26224 has 339 MA's), (35, 26281), (40, 26305), (45, 26329), (61, 26404), (108, 26647), (110, 26656), (114, 26677), (119, 26698), (121, 26707), (133, 26770), (153, 26863), (163, 26920), (166, 26938), (198, 27070), (210, 27118), (219, 27160), (220, 27166), (221, 27169), (228, 27208), (230, 27226), (235, 27241), (236, 27247), (239, 27256), (242, 27271), (253, 27316), (277, 27421), (287, 27457), (302, 27517), (304, 27526), (309, 27553), (316, 27595), (321, 27616),

Gene: Lasso\_29 Start: 26197, Stop: 27630, Start Num: 25

Candidate Starts for Lasso\_29:

(Start: 25 @26197 has 339 MA's), (35, 26254), (40, 26278), (45, 26302), (61, 26377), (101, 26593), (108, 26620), (110, 26629), (114, 26650), (119, 26671), (121, 26680), (133, 26743), (153, 26836), (163, 26893), (166, 26911), (198, 27043), (210, 27091), (219, 27133), (220, 27139), (221, 27142), (228, 27181), (235, 27214), (236, 27220), (239, 27229), (242, 27244), (253, 27289), (277, 27394), (287, 27430), (302, 27490), (304, 27499), (316, 27568),

Gene: Laurie\_30 Start: 27477, Stop: 28913, Start Num: 26

Candidate Starts for Laurie\_30:

(Start: 26 @27477 has 105 MA's), (32, 27510), (35, 27534), (36, 27537), (40, 27558), (44, 27579), (51, 27612), (60, 27657), (63, 27666), (77, 27729), (109, 27909), (110, 27912), (114, 27933), (120, 27957), (121, 27963), (123, 27981), (130, 28011), (131, 28014), (134, 28029), (136, 28035), (150, 28104), (158, 28158), (163, 28176), (166, 28194), (167, 28197), (172, 28221), (184, 28275), (195, 28314), (201, 28332), (206, 28353), (218, 28410), (219, 28416), (221, 28425), (230, 28482), (244, 28533),

(247, 28542), (254, 28575), (257, 28584), (271, 28650), (282, 28692), (287, 28713), (290, 28725), (292, 28743), (303, 28779), (304, 28782), (315, 28848), (316, 28851), (322, 28881),

Gene: LeeLot\_29 Start: 26228, Stop: 27661, Start Num: 25

Candidate Starts for LeeLot\_29:

(Start: 25 @26228 has 339 MA's), (35, 26285), (40, 26309), (45, 26333), (61, 26408), (101, 26624), (108, 26651), (110, 26660), (114, 26681), (119, 26702), (121, 26711), (133, 26774), (153, 26867), (163, 26924), (166, 26942), (198, 27074), (210, 27122), (219, 27164), (220, 27170), (221, 27173), (228, 27212), (235, 27245), (236, 27251), (239, 27260), (242, 27275), (253, 27320), (277, 27425), (287, 27461), (302, 27521), (304, 27530), (316, 27599),

Gene: Lego3393\_29 Start: 26233, Stop: 27666, Start Num: 25

Candidate Starts for Lego3393\_29:

(Start: 25 @26233 has 339 MA's), (35, 26290), (40, 26314), (45, 26338), (61, 26413), (101, 26629), (108, 26656), (110, 26665), (114, 26686), (119, 26707), (121, 26716), (133, 26779), (153, 26872), (163, 26929), (166, 26947), (198, 27079), (210, 27127), (219, 27169), (220, 27175), (221, 27178), (228, 27217), (235, 27250), (236, 27256), (239, 27265), (242, 27280), (253, 27325), (277, 27430), (287, 27466), (302, 27526), (304, 27535), (316, 27604),

Gene: Legolas\_28 Start: 25938, Stop: 27371, Start Num: 25

Candidate Starts for Legolas\_28:

(Start: 25 @25938 has 339 MA's), (35, 25995), (40, 26019), (45, 26043), (61, 26118), (101, 26334), (108, 26361), (110, 26370), (114, 26391), (119, 26412), (121, 26421), (133, 26484), (153, 26577), (163, 26634), (166, 26652), (198, 26784), (210, 26832), (219, 26874), (220, 26880), (221, 26883), (228, 26922), (235, 26955), (236, 26961), (239, 26970), (242, 26985), (253, 27030), (277, 27135), (287, 27171), (302, 27231), (304, 27240), (316, 27309),

Gene: Lehmann\_29 Start: 25761, Stop: 27194, Start Num: 25

Candidate Starts for Lehmann\_29:

(Start: 25 @25761 has 339 MA's), (35, 25818), (40, 25842), (45, 25866), (61, 25941), (101, 26157), (108, 26184), (110, 26193), (114, 26214), (119, 26235), (121, 26244), (133, 26307), (153, 26400), (163, 26457), (166, 26475), (198, 26607), (210, 26655), (219, 26697), (220, 26703), (221, 26706), (228, 26745), (235, 26778), (236, 26784), (239, 26793), (242, 26808), (253, 26853), (262, 26883), (277, 26958), (287, 26994), (302, 27054), (304, 27063), (316, 27132),

Gene: LeiMonet\_29 Start: 25929, Stop: 27362, Start Num: 25

Candidate Starts for LeiMonet\_29:

(Start: 25 @25929 has 339 MA's), (35, 25986), (40, 26010), (45, 26034), (61, 26109), (101, 26325), (108, 26352), (110, 26361), (114, 26382), (119, 26403), (121, 26412), (133, 26475), (153, 26568), (163, 26625), (166, 26643), (198, 26775), (210, 26823), (219, 26865), (220, 26871), (221, 26874), (228, 26913), (235, 26946), (236, 26952), (239, 26961), (242, 26976), (253, 27021), (277, 27126), (287, 27162), (302, 27222), (304, 27231), (316, 27300),

Gene: LemonSlice\_29 Start: 25925, Stop: 27358, Start Num: 25

Candidate Starts for LemonSlice\_29:

(Start: 25 @25925 has 339 MA's), (35, 25982), (40, 26006), (45, 26030), (61, 26105), (101, 26321), (108, 26348), (110, 26357), (114, 26378), (119, 26399), (121, 26408), (133, 26471), (153, 26564), (163, 26621), (166, 26639), (198, 26771), (210, 26819), (219, 26861), (220, 26867), (221, 26870), (228, 26909), (235, 26942), (236, 26948), (239, 26957), (242, 26972), (253, 27017), (277, 27122), (287, 27158), (302, 27218), (304, 27227), (316, 27296),

Gene: Lephleur\_30 Start: 27486, Stop: 28922, Start Num: 26

Candidate Starts for Lephleur\_30:

(Start: 26 @27486 has 105 MA's), (32, 27519), (35, 27543), (36, 27546), (40, 27567), (44, 27588), (51, 27621), (60, 27666), (63, 27675), (77, 27738), (109, 27918), (110, 27921), (114, 27942), (120, 27966), (121, 27972), (123, 27990), (130, 28020), (131, 28023), (134, 28038), (136, 28044), (150, 28113), (158, 28167), (163, 28185), (166, 28203), (167, 28206), (172, 28230), (184, 28284), (195, 28323), (201, 28341), (206, 28362), (218, 28419), (219, 28425), (221, 28434), (230, 28491), (244, 28542), (247, 28551), (254, 28584), (257, 28593), (271, 28659), (282, 28701), (287, 28722), (290, 28734), (292, 28752), (304, 28791), (315, 28857), (316, 28860), (322, 28890),

Gene: LestyG\_29 Start: 26150, Stop: 27580, Start Num: 26

Candidate Starts for LestyG\_29:

(Start: 26 @26150 has 105 MA's), (35, 26207), (40, 26231), (41, 26240), (61, 26327), (89, 26477), (93, 26504), (110, 26579), (117, 26609), (121, 26630), (123, 26648), (136, 26702), (143, 26735), (167, 26864), (184, 26942), (186, 26954), (193, 26975), (197, 26990), (202, 27002), (219, 27083), (220, 27089), (229, 27137), (230, 27149), (241, 27191), (247, 27209), (254, 27242), (265, 27290), (279, 27350), (283, 27365), (287, 27380), (288, 27383), (303, 27446), (316, 27518), (322, 27548),

Gene: Ligma\_25 Start: 23515, Stop: 25044, Start Num: 9

Candidate Starts for Ligma\_25:

(1, 22570), (2, 22669), (Start: 9 @23515 has 19 MA's), (14, 23548), (Start: 27 @23617 has 38 MA's), (30, 23635), (54, 23758), (59, 23779), (63, 23800), (110, 24043), (119, 24085), (121, 24094), (130, 24142), (165, 24316), (167, 24328), (183, 24397), (186, 24418), (218, 24541), (219, 24547), (222, 24574), (228, 24595), (235, 24628), (236, 24634), (239, 24643), (256, 24712), (263, 24742), (269, 24766), (279, 24814),

Gene: LilMcDreamy\_25 Start: 26621, Stop: 28051, Start Num: 25

Candidate Starts for LilMcDreamy\_25:

(Start: 25 @26621 has 339 MA's), (40, 26702), (44, 26723), (67, 26819), (76, 26870), (79, 26900), (100, 27008), (109, 27047), (119, 27092), (121, 27101), (131, 27152), (134, 27167), (139, 27194), (149, 27239), (153, 27257), (163, 27314), (165, 27323), (167, 27335), (186, 27425), (209, 27503), (219, 27554), (220, 27560), (222, 27581), (244, 27671), (256, 27719), (279, 27821), (286, 27848), (287, 27851), (297, 27896), (316, 27989), (324, 28025),

Gene: LilSmirk\_30 Start: 27480, Stop: 28916, Start Num: 26

Candidate Starts for LilSmirk\_30:

(Start: 26 @27480 has 105 MA's), (32, 27513), (35, 27537), (36, 27540), (40, 27561), (44, 27582), (51, 27615), (60, 27660), (63, 27669), (77, 27732), (109, 27912), (110, 27915), (114, 27936), (120, 27960), (121, 27966), (123, 27984), (130, 28014), (131, 28017), (134, 28032), (136, 28038), (150, 28107), (158, 28161), (163, 28179), (166, 28197), (167, 28200), (172, 28224), (184, 28278), (195, 28317), (201, 28335), (206, 28356), (218, 28413), (219, 28419), (221, 28428), (230, 28485), (244, 28536), (247, 28545), (254, 28578), (257, 28587), (271, 28653), (282, 28695), (287, 28716), (290, 28728), (292, 28746), (304, 28785), (315, 28851), (316, 28854), (322, 28884),

Gene: LittleDigger\_25 Start: 25464, Stop: 26897, Start Num: 25

Candidate Starts for LittleDigger\_25:

(Start: 25 @25464 has 339 MA's), (32, 25497), (35, 25521), (36, 25524), (41, 25554), (51, 25596), (53, 25602), (61, 25644), (70, 25677), (77, 25719), (101, 25860), (109, 25893), (110, 25896), (111, 25902), (119, 25938), (121, 25947), (131, 25998), (139, 26040), (156, 26115), (160, 26151), (165, 26169), (166, 26178), (167, 26181), (171, 26202), (184, 26259), (186, 26271), (200, 26313), (202, 26319), (219, 26400), (220, 26406), (223, 26430), (228, 26448), (235, 26481), (239, 26496), (241, 26508), (254, 26559), (258, 26571), (286, 26694), (287, 26697), (303, 26763), (307, 26784), (315, 26832), (324, 26871), (328, 26892),

Gene: LittleMinkey\_33 Start: 26388, Stop: 27821, Start Num: 25

Candidate Starts for LittleMinkey\_33:

(Start: 25 @26388 has 339 MA's), (36, 26448), (40, 26469), (45, 26493), (52, 26523), (61, 26568), (89, 26721), (109, 26817), (128, 26907), (131, 26922), (163, 27084), (174, 27138), (197, 27231), (200, 27237), (202, 27243), (203, 27246), (219, 27324), (227, 27369), (239, 27420), (244, 27441), (253, 27480), (290, 27633), (304, 27690), (319, 27774), (324, 27795),

Gene: LittleMunchkin\_27 Start: 26568, Stop: 28097, Start Num: 9

Candidate Starts for LittleMunchkin\_27:

(Start: 9 @26568 has 19 MA's), (14, 26601), (30, 26688), (85, 26964), (93, 27021), (108, 27087), (110, 27096), (115, 27120), (119, 27138), (121, 27147), (122, 27150), (123, 27165), (130, 27195), (165, 27369), (166, 27378), (167, 27381), (171, 27402), (183, 27450), (186, 27471), (188, 27474), (218, 27594), (219, 27600), (220, 27606), (224, 27636), (235, 27681), (239, 27696), (263, 27795), (269, 27819), (309, 27993), (315, 28032),

Gene: LizLemon\_30 Start: 27602, Stop: 29038, Start Num: 26

Candidate Starts for LizLemon\_30:

(Start: 26 @27602 has 105 MA's), (32, 27635), (35, 27659), (36, 27662), (40, 27683), (44, 27704), (51, 27737), (60, 27782), (63, 27791), (77, 27854), (109, 28034), (110, 28037), (114, 28058), (120, 28082), (121, 28088), (123, 28106), (130, 28136), (131, 28139), (134, 28154), (136, 28160), (150, 28229), (158, 28283), (163, 28301), (166, 28319), (167, 28322), (172, 28346), (184, 28400), (195, 28439), (201, 28457), (206, 28478), (218, 28535), (219, 28541), (221, 28550), (230, 28607), (244, 28658), (247, 28667), (254, 28700), (257, 28709), (271, 28775), (282, 28817), (287, 28838), (290, 28850), (292, 28868), (304, 28907), (315, 28973), (316, 28976), (322, 29006),

Gene: Lolalove\_26 Start: 26471, Stop: 27904, Start Num: 25

Candidate Starts for Lolalove\_26:

(Start: 25 @26471 has 339 MA's), (32, 26504), (35, 26528), (36, 26531), (41, 26561), (51, 26603), (53, 26609), (61, 26651), (70, 26684), (77, 26726), (96, 26843), (101, 26867), (110, 26903), (111, 26909), (119, 26945), (121, 26954), (131, 27005), (139, 27047), (160, 27158), (165, 27176), (166, 27185), (171, 27209), (184, 27266), (186, 27278), (200, 27320), (202, 27326), (219, 27407), (220, 27413), (223, 27437), (228, 27455), (235, 27488), (239, 27503), (241, 27515), (254, 27566), (258, 27578), (286, 27701), (287, 27704), (303, 27770), (307, 27791), (315, 27839), (324, 27878), (328, 27899),

Gene: Longacauda\_28 Start: 25930, Stop: 27363, Start Num: 25

Candidate Starts for Longacauda\_28:

(Start: 25 @25930 has 339 MA's), (35, 25987), (40, 26011), (45, 26035), (61, 26110), (108, 26353), (110, 26362), (114, 26383), (119, 26404), (121, 26413), (133, 26476), (153, 26569), (154, 26572), (163, 26626), (166, 26644), (198, 26776), (210, 26824), (219, 26866), (220, 26872), (221, 26875), (228, 26914), (230, 26932), (235, 26947), (236, 26953), (239, 26962), (242, 26977), (253, 27022), (277, 27127), (287, 27163), (302, 27223), (304, 27232), (309, 27259), (316, 27301), (321, 27322),

Gene: Lopsy\_28 Start: 25780, Stop: 27213, Start Num: 25

Candidate Starts for Lopsy\_28:

(Start: 25 @25780 has 339 MA's), (35, 25837), (40, 25861), (45, 25885), (61, 25960), (101, 26176), (108, 26203), (110, 26212), (114, 26233), (119, 26254), (121, 26263), (133, 26326), (153, 26419), (163, 26476), (166, 26494), (198, 26626), (210, 26674), (219, 26716), (220, 26722), (221, 26725), (228, 26764), (235, 26797), (236, 26803), (239, 26812), (242, 26827), (253, 26872), (277, 26977), (287, 27013), (302, 27073), (304, 27082), (316, 27151),

Gene: LostAndPhound\_28 Start: 25931, Stop: 27364, Start Num: 25

Candidate Starts for LostAndPhound\_28:

(Start: 25 @25931 has 339 MA's), (35, 25988), (40, 26012), (45, 26036), (61, 26111), (101, 26327), (108, 26354), (110, 26363), (114, 26384), (119, 26405), (121, 26414), (133, 26477), (153, 26570),

(163, 26627), (166, 26645), (198, 26777), (210, 26825), (219, 26867), (220, 26873), (221, 26876), (228, 26915), (235, 26948), (236, 26954), (239, 26963), (242, 26978), (253, 27023), (277, 27128), (287, 27164), (302, 27224), (304, 27233), (316, 27302),

Gene: LuckyMarjie\_28 Start: 25940, Stop: 27373, Start Num: 25

Candidate Starts for LuckyMarjie\_28:

(Start: 25 @25940 has 339 MA's), (35, 25997), (40, 26021), (45, 26045), (61, 26120), (101, 26336), (108, 26363), (110, 26372), (114, 26393), (119, 26414), (121, 26423), (133, 26486), (153, 26579), (163, 26636), (166, 26654), (198, 26786), (210, 26834), (219, 26876), (220, 26882), (221, 26885), (228, 26924), (235, 26957), (236, 26963), (239, 26972), (242, 26987), (253, 27032), (277, 27137), (287, 27173), (302, 27233), (304, 27242), (316, 27311),

Gene: Lulumae\_28 Start: 25922, Stop: 27355, Start Num: 25

Candidate Starts for Lulumae\_28:

(Start: 25 @25922 has 339 MA's), (35, 25979), (40, 26003), (45, 26027), (61, 26102), (101, 26318), (108, 26345), (110, 26354), (114, 26375), (119, 26396), (121, 26405), (133, 26468), (153, 26561), (163, 26618), (166, 26636), (198, 26768), (210, 26816), (219, 26858), (220, 26864), (221, 26867), (228, 26906), (235, 26939), (236, 26945), (239, 26954), (242, 26969), (253, 27014), (277, 27119), (287, 27155), (302, 27215), (304, 27224), (316, 27293),

Gene: Lulwa\_29 Start: 26209, Stop: 27642, Start Num: 25

Candidate Starts for Lulwa\_29:

(Start: 25 @26209 has 339 MA's), (35, 26266), (40, 26290), (45, 26314), (61, 26389), (101, 26605), (108, 26632), (110, 26641), (114, 26662), (119, 26683), (121, 26692), (133, 26755), (153, 26848), (163, 26905), (166, 26923), (198, 27055), (210, 27103), (219, 27145), (220, 27151), (221, 27154), (228, 27193), (235, 27226), (236, 27232), (239, 27241), (242, 27256), (253, 27301), (277, 27406), (287, 27442), (302, 27502), (304, 27511), (316, 27580),

Gene: Lumine\_28 Start: 25918, Stop: 27351, Start Num: 25

Candidate Starts for Lumine\_28:

(Start: 25 @25918 has 339 MA's), (35, 25975), (40, 25999), (45, 26023), (61, 26098), (101, 26314), (108, 26341), (110, 26350), (114, 26371), (119, 26392), (121, 26401), (133, 26464), (153, 26557), (163, 26614), (166, 26632), (198, 26764), (210, 26812), (219, 26854), (220, 26860), (221, 26863), (228, 26902), (235, 26935), (236, 26941), (239, 26950), (242, 26965), (253, 27010), (277, 27115), (287, 27151), (302, 27211), (304, 27220), (316, 27289),

Gene: MRabcd\_28 Start: 25922, Stop: 27355, Start Num: 25

Candidate Starts for MRabcd\_28:

(Start: 25 @25922 has 339 MA's), (35, 25979), (40, 26003), (45, 26027), (61, 26102), (101, 26318), (108, 26345), (110, 26354), (114, 26375), (119, 26396), (121, 26405), (133, 26468), (153, 26561), (163, 26618), (166, 26636), (198, 26768), (210, 26816), (219, 26858), (220, 26864), (221, 26867), (228, 26906), (235, 26939), (236, 26945), (239, 26954), (242, 26969), (253, 27014), (277, 27119), (287, 27155), (302, 27215), (304, 27224), (316, 27293),

Gene: Mag7\_28 Start: 25828, Stop: 27261, Start Num: 25

Candidate Starts for Mag7\_28:

(Start: 25 @25828 has 339 MA's), (35, 25885), (40, 25909), (45, 25933), (61, 26008), (108, 26251), (110, 26260), (114, 26281), (119, 26302), (121, 26311), (133, 26374), (153, 26467), (163, 26524), (166, 26542), (198, 26674), (210, 26722), (219, 26764), (220, 26770), (221, 26773), (228, 26812), (230, 26830), (235, 26845), (236, 26851), (239, 26860), (242, 26875), (253, 26920), (277, 27025), (287, 27061), (302, 27121), (304, 27130), (309, 27157), (316, 27199), (321, 27220),

Gene: Magic8\_29 Start: 26263, Stop: 27696, Start Num: 25

Candidate Starts for Magic8\_29:

(Start: 25 @26263 has 339 MA's), (35, 26320), (40, 26344), (45, 26368), (61, 26443), (108, 26686), (110, 26695), (114, 26716), (119, 26737), (121, 26746), (133, 26809), (153, 26902), (163, 26959), (166, 26977), (198, 27109), (210, 27157), (219, 27199), (220, 27205), (221, 27208), (228, 27247), (230, 27265), (235, 27280), (236, 27286), (239, 27295), (242, 27310), (253, 27355), (277, 27460), (287, 27496), (302, 27556), (304, 27565), (309, 27592), (316, 27634), (321, 27655),

Gene: Magpie\_25 Start: 26300, Stop: 27733, Start Num: 25

Candidate Starts for Magpie\_25:

(Start: 25 @26300 has 339 MA's), (32, 26333), (35, 26357), (36, 26360), (41, 26390), (51, 26432), (53, 26438), (61, 26480), (70, 26513), (77, 26555), (101, 26696), (110, 26732), (111, 26738), (119, 26774), (121, 26783), (131, 26834), (139, 26876), (160, 26987), (165, 27005), (166, 27014), (171, 27038), (184, 27095), (186, 27107), (200, 27149), (202, 27155), (219, 27236), (220, 27242), (223, 27266), (228, 27284), (235, 27317), (239, 27332), (241, 27344), (254, 27395), (258, 27407), (286, 27530), (287, 27533), (303, 27599), (307, 27620), (315, 27668), (324, 27707), (328, 27728),

Gene: Maih\_21 Start: 20261, Stop: 21598, Start Num: 27

Candidate Starts for Maih\_21:

(3, 19856), (4, 20081), (6, 20129), (8, 20141), (Start: 27 @20261 has 38 MA's), (39, 20336), (71, 20435), (84, 20507), (89, 20543), (92, 20555), (104, 20609), (114, 20657), (127, 20723), (165, 20891), (168, 20906), (176, 20945), (178, 20954), (185, 20987), (213, 21062), (232, 21101), (238, 21125), (247, 21155), (251, 21179), (276, 21266), (297, 21356), (310, 21413), (311, 21416), (324, 21482), (332, 21563), (334, 21578),

Gene: Makar\_58 Start: 35993, Stop: 37279, Start Num: 26

Candidate Starts for Makar\_58:

(Start: 26 @35993 has 105 MA's), (44, 36095), (83, 36230), (89, 36272), (94, 36299), (130, 36464), (139, 36503), (165, 36626), (180, 36695), (181, 36698), (190, 36740), (212, 36812), (239, 36905), (244, 36926), (260, 36986), (272, 37034), (273, 37037), (281, 37067), (284, 37082), (301, 37142), (310, 37178), (320, 37229), (322, 37241), (325, 37250), (327, 37265),

Gene: MakoManhole\_27 Start: 25502, Stop: 27028, Start Num: 9

Candidate Starts for MakoManhole\_27:

(Start: 9 @25502 has 19 MA's), (14, 25535), (16, 25559), (18, 25562), (Start: 27 @25604 has 38 MA's), (Start: 28 @25607 has 1 MA's), (93, 25952), (108, 26018), (117, 26057), (131, 26129), (132, 26132), (153, 26234), (163, 26291), (168, 26315), (183, 26381), (184, 26390), (186, 26402), (188, 26405), (200, 26444), (205, 26465), (219, 26531), (220, 26537), (227, 26576), (228, 26579), (235, 26612), (241, 26639), (244, 26648), (247, 26657), (258, 26702), (265, 26738), (269, 26750), (279, 26798), (302, 26888), (315, 26963), (322, 26996),

Gene: Mana\_28 Start: 25937, Stop: 27370, Start Num: 25

Candidate Starts for Mana\_28:

(Start: 25 @25937 has 339 MA's), (35, 25994), (40, 26018), (45, 26042), (61, 26117), (101, 26333), (108, 26360), (110, 26369), (114, 26390), (119, 26411), (121, 26420), (133, 26483), (153, 26576), (163, 26633), (166, 26651), (198, 26783), (210, 26831), (219, 26873), (220, 26879), (221, 26882), (228, 26921), (235, 26954), (236, 26960), (239, 26969), (242, 26984), (253, 27029), (277, 27134), (287, 27170), (302, 27230), (304, 27239), (316, 27308),

Gene: Manad\_28 Start: 25776, Stop: 27209, Start Num: 25

Candidate Starts for Manad\_28:

(Start: 25 @25776 has 339 MA's), (35, 25833), (40, 25857), (45, 25881), (61, 25956), (101, 26172), (108, 26199), (110, 26208), (114, 26229), (119, 26250), (121, 26259), (133, 26322), (153, 26415), (163, 26472), (166, 26490), (198, 26622), (210, 26670), (219, 26712), (220, 26718), (221, 26721),

(228, 26760), (235, 26793), (236, 26799), (239, 26808), (242, 26823), (253, 26868), (277, 26973), (287, 27009), (302, 27069), (304, 27078), (316, 27147),

Gene: Mao1\_24 Start: 23526, Stop: 24953, Start Num: 26

Candidate Starts for Mao1\_24:

(Start: 26 @23526 has 105 MA's), (32, 23559), (40, 23607), (43, 23622), (44, 23628), (53, 23670), (63, 23712), (70, 23733), (77, 23775), (108, 23943), (109, 23949), (121, 24003), (131, 24054), (134, 24069), (136, 24075), (144, 24117), (158, 24198), (163, 24216), (183, 24306), (186, 24327), (197, 24363), (200, 24369), (209, 24405), (219, 24456), (221, 24465), (222, 24483), (230, 24522), (244, 24573), (247, 24582), (254, 24615), (271, 24690), (287, 24753), (290, 24765), (316, 24891), (322, 24921),

Gene: Mariokart\_25 Start: 23433, Stop: 24962, Start Num: 10

Candidate Starts for Mariokart\_25:

(Start: 10 @23433 has 3 MA's), (14, 23466), (Start: 27 @23535 has 38 MA's), (59, 23697), (110, 23961), (115, 23985), (119, 24003), (121, 24012), (136, 24084), (145, 24135), (163, 24225), (165, 24234), (167, 24246), (183, 24315), (186, 24336), (197, 24372), (218, 24459), (219, 24465), (220, 24471), (228, 24513), (235, 24546), (236, 24552), (239, 24561), (254, 24624), (279, 24732), (287, 24762), (315, 24897),

Gene: Marley1013\_29 Start: 26928, Stop: 28358, Start Num: 26

Candidate Starts for Marley1013\_29:

(Start: 26 @26928 has 105 MA's), (35, 26985), (40, 27009), (41, 27018), (61, 27105), (93, 27282), (108, 27348), (110, 27357), (117, 27387), (121, 27408), (123, 27426), (136, 27480), (167, 27642), (184, 27720), (186, 27732), (193, 27753), (197, 27768), (202, 27780), (219, 27861), (220, 27867), (229, 27915), (230, 27927), (241, 27969), (247, 27987), (254, 28020), (265, 28068), (279, 28128), (283, 28143), (287, 28158), (288, 28161), (303, 28224), (316, 28296), (322, 28326),

Gene: Marlia\_29 Start: 26130, Stop: 27560, Start Num: 26

Candidate Starts for Marlia\_29:

(Start: 26 @26130 has 105 MA's), (35, 26187), (40, 26211), (41, 26220), (61, 26307), (89, 26457), (93, 26484), (108, 26550), (110, 26559), (117, 26589), (121, 26610), (123, 26628), (136, 26682), (167, 26844), (184, 26922), (186, 26934), (193, 26955), (197, 26970), (202, 26982), (219, 27063), (220, 27069), (229, 27117), (230, 27129), (241, 27171), (247, 27189), (254, 27222), (265, 27270), (279, 27330), (283, 27345), (287, 27360), (288, 27363), (316, 27498), (322, 27528),

Gene: Maru\_28 Start: 25930, Stop: 27363, Start Num: 25

Candidate Starts for Maru\_28:

(Start: 25 @25930 has 339 MA's), (35, 25987), (40, 26011), (45, 26035), (61, 26110), (101, 26326), (108, 26353), (110, 26362), (114, 26383), (119, 26404), (121, 26413), (133, 26476), (153, 26569), (163, 26626), (166, 26644), (198, 26776), (210, 26824), (219, 26866), (220, 26872), (221, 26875), (228, 26914), (235, 26947), (236, 26953), (239, 26962), (242, 26977), (253, 27022), (277, 27127), (287, 27163), (302, 27223), (304, 27232), (316, 27301),

Gene: Mask\_25 Start: 23519, Stop: 24946, Start Num: 26

Candidate Starts for Mask\_25:

(Start: 26 @23519 has 105 MA's), (32, 23552), (40, 23600), (43, 23615), (44, 23621), (53, 23663), (63, 23705), (70, 23726), (77, 23768), (108, 23936), (109, 23942), (121, 23996), (131, 24047), (134, 24062), (136, 24068), (144, 24110), (158, 24191), (163, 24209), (183, 24299), (186, 24320), (197, 24356), (200, 24362), (209, 24398), (219, 24449), (221, 24458), (222, 24476), (230, 24515), (244, 24566), (247, 24575), (254, 24608), (271, 24683), (287, 24746), (290, 24758), (316, 24884), (322, 24914),

Gene: Maskar\_28 Start: 25776, Stop: 27209, Start Num: 25

Candidate Starts for Maskar\_28:

(Start: 25 @25776 has 339 MA's), (35, 25833), (40, 25857), (45, 25881), (61, 25956), (108, 26199), (110, 26208), (114, 26229), (119, 26250), (121, 26259), (133, 26322), (153, 26415), (154, 26418), (163, 26472), (166, 26490), (198, 26622), (210, 26670), (219, 26712), (220, 26718), (221, 26721), (228, 26760), (230, 26778), (235, 26793), (236, 26799), (239, 26808), (242, 26823), (253, 26868), (277, 26973), (287, 27009), (302, 27069), (304, 27078), (309, 27105), (316, 27147), (321, 27168),

Gene: MasterPo\_30 Start: 27489, Stop: 28925, Start Num: 26

Candidate Starts for MasterPo\_30:

(Start: 26 @27489 has 105 MA's), (32, 27522), (35, 27546), (36, 27549), (40, 27570), (44, 27591), (51, 27624), (60, 27669), (63, 27678), (77, 27741), (109, 27921), (110, 27924), (114, 27945), (120, 27969), (121, 27975), (123, 27993), (130, 28023), (131, 28026), (134, 28041), (136, 28047), (150, 28116), (158, 28170), (163, 28188), (166, 28206), (167, 28209), (172, 28233), (184, 28287), (195, 28326), (201, 28344), (206, 28365), (218, 28422), (219, 28428), (221, 28437), (230, 28494), (244, 28545), (247, 28554), (254, 28587), (257, 28596), (271, 28662), (282, 28704), (287, 28725), (290, 28737), (292, 28755), (304, 28794), (315, 28860), (316, 28863), (322, 28893),

Gene: Matalotodo\_29 Start: 26223, Stop: 27656, Start Num: 25

Candidate Starts for Matalotodo\_29:

(Start: 25 @26223 has 339 MA's), (35, 26280), (40, 26304), (45, 26328), (61, 26403), (101, 26619), (108, 26646), (110, 26655), (114, 26676), (119, 26697), (121, 26706), (133, 26769), (153, 26862), (163, 26919), (166, 26937), (198, 27069), (210, 27117), (219, 27159), (220, 27165), (221, 27168), (228, 27207), (235, 27240), (236, 27246), (239, 27255), (242, 27270), (253, 27315), (277, 27420), (287, 27456), (302, 27516), (304, 27525), (316, 27594),

Gene: Mcshane\_28 Start: 25920, Stop: 27353, Start Num: 25

Candidate Starts for Mcshane\_28:

(Start: 25 @25920 has 339 MA's), (35, 25977), (40, 26001), (45, 26025), (61, 26100), (101, 26316), (108, 26343), (110, 26352), (114, 26373), (119, 26394), (121, 26403), (133, 26466), (153, 26559), (163, 26616), (166, 26634), (198, 26766), (210, 26814), (219, 26856), (220, 26862), (221, 26865), (228, 26904), (235, 26937), (236, 26943), (239, 26952), (242, 26967), (253, 27012), (277, 27117), (287, 27153), (302, 27213), (304, 27222), (316, 27291),

Gene: Mecca\_28 Start: 25923, Stop: 27356, Start Num: 25

Candidate Starts for Mecca\_28:

(Start: 25 @25923 has 339 MA's), (35, 25980), (40, 26004), (45, 26028), (61, 26103), (101, 26319), (108, 26346), (110, 26355), (114, 26376), (119, 26397), (121, 26406), (133, 26469), (153, 26562), (163, 26619), (166, 26637), (198, 26769), (210, 26817), (219, 26859), (220, 26865), (221, 26868), (228, 26907), (235, 26940), (236, 26946), (239, 26955), (242, 26970), (277, 27120), (287, 27156), (302, 27216), (304, 27225), (316, 27294),

Gene: Megabear\_22 Start: 24689, Stop: 26125, Start Num: 27

Candidate Starts for Megabear\_22:

(Start: 27 @24689 has 38 MA's), (31, 24710), (32, 24719), (60, 24866), (63, 24875), (82, 24977), (86, 24995), (93, 25046), (99, 25076), (108, 25112), (110, 25121), (115, 25145), (117, 25151), (131, 25223), (163, 25385), (164, 25391), (166, 25403), (167, 25406), (184, 25484), (186, 25496), (197, 25532), (203, 25547), (206, 25565), (219, 25628), (220, 25634), (222, 25655), (227, 25673), (228, 25676), (230, 25694), (240, 25727), (241, 25736), (244, 25745), (247, 25754), (254, 25787), (269, 25847), (271, 25862), (279, 25895), (287, 25925), (300, 25979), (315, 26060), (316, 26063), (322, 26093),

Gene: Megamind20\_29 Start: 25945, Stop: 27378, Start Num: 25

Candidate Starts for Megamind20\_29:

(Start: 25 @25945 has 339 MA's), (35, 26002), (40, 26026), (45, 26050), (61, 26125), (101, 26341), (108, 26368), (110, 26377), (114, 26398), (119, 26419), (121, 26428), (133, 26491), (153, 26584), (163, 26641), (166, 26659), (198, 26791), (210, 26839), (219, 26881), (220, 26887), (221, 26890), (228, 26929), (235, 26962), (236, 26968), (239, 26977), (242, 26992), (253, 27037), (277, 27142), (287, 27178), (302, 27238), (304, 27247), (316, 27316),

Gene: Megatron\_29 Start: 26221, Stop: 27654, Start Num: 25

Candidate Starts for Megatron\_29:

(Start: 25 @26221 has 339 MA's), (35, 26278), (40, 26302), (45, 26326), (61, 26401), (101, 26617), (108, 26644), (110, 26653), (114, 26674), (119, 26695), (121, 26704), (133, 26767), (153, 26860), (163, 26917), (166, 26935), (198, 27067), (210, 27115), (219, 27157), (220, 27163), (221, 27166), (228, 27205), (235, 27238), (236, 27244), (239, 27253), (242, 27268), (253, 27313), (277, 27418), (287, 27454), (302, 27514), (304, 27523), (316, 27592),

Gene: Melc17\_29 Start: 26218, Stop: 27651, Start Num: 25

Candidate Starts for Melc17\_29:

(Start: 25 @26218 has 339 MA's), (35, 26275), (40, 26299), (45, 26323), (61, 26398), (108, 26641), (110, 26650), (114, 26671), (119, 26692), (121, 26701), (133, 26764), (153, 26857), (163, 26914), (166, 26932), (210, 27112), (219, 27154), (220, 27160), (221, 27163), (228, 27202), (230, 27220), (235, 27235), (236, 27241), (239, 27250), (242, 27265), (253, 27310), (277, 27415), (287, 27451), (302, 27511), (304, 27520), (309, 27547), (316, 27589), (321, 27610),

Gene: MellowYellow\_34 Start: 25152, Stop: 26360, Start Num: 27

Candidate Starts for MellowYellow\_34:

(Start: 27 @25152 has 38 MA's), (32, 25182), (37, 25218), (89, 25413), (104, 25479), (105, 25482), (112, 25515), (113, 25518), (114, 25527), (118, 25545), (129, 25587), (134, 25605), (148, 25668), (155, 25692), (159, 25722), (165, 25734), (169, 25758), (180, 25803), (190, 25851), (199, 25878), (243, 26016), (244, 26019), (252, 26052), (280, 26151), (295, 26211), (313, 26292), (318, 26307), (323, 26328), (325, 26334),

Gene: MelsMeow\_28 Start: 25822, Stop: 27255, Start Num: 25

Candidate Starts for MelsMeow\_28:

(Start: 25 @25822 has 339 MA's), (35, 25879), (40, 25903), (45, 25927), (61, 26002), (108, 26245), (110, 26254), (114, 26275), (119, 26296), (121, 26305), (133, 26368), (153, 26461), (163, 26518), (166, 26536), (210, 26716), (219, 26758), (220, 26764), (221, 26767), (228, 26806), (230, 26824), (235, 26839), (236, 26845), (239, 26854), (242, 26869), (253, 26914), (277, 27019), (287, 27055), (302, 27115), (304, 27124), (309, 27151), (316, 27193), (321, 27214),

Gene: Mesh1\_29 Start: 26235, Stop: 27668, Start Num: 25

Candidate Starts for Mesh1\_29:

(Start: 25 @26235 has 339 MA's), (35, 26292), (40, 26316), (45, 26340), (61, 26415), (101, 26631), (108, 26658), (110, 26667), (114, 26688), (119, 26709), (121, 26718), (133, 26781), (153, 26874), (163, 26931), (166, 26949), (198, 27081), (210, 27129), (219, 27171), (220, 27177), (221, 27180), (228, 27219), (235, 27252), (236, 27258), (239, 27267), (242, 27282), (253, 27327), (277, 27432), (287, 27468), (302, 27528), (304, 27537), (316, 27606),

Gene: Mesmerelda\_28 Start: 25933, Stop: 27366, Start Num: 25

Candidate Starts for Mesmerelda\_28:

(Start: 25 @25933 has 339 MA's), (35, 25990), (40, 26014), (45, 26038), (61, 26113), (101, 26329), (108, 26356), (110, 26365), (114, 26386), (119, 26407), (121, 26416), (133, 26479), (153, 26572), (163, 26629), (166, 26647), (198, 26779), (210, 26827), (219, 26869), (220, 26875), (221, 26878), (228, 26917), (235, 26950), (236, 26956), (239, 26965), (242, 26980), (253, 27025), (277, 27130),

(287, 27166), (302, 27226), (304, 27235), (316, 27304),

Gene: MichaelPhcott\_28 Start: 25825, Stop: 27258, Start Num: 25

Candidate Starts for MichaelPhcott\_28:

(Start: 25 @25825 has 339 MA's), (35, 25882), (40, 25906), (45, 25930), (61, 26005), (108, 26248), (110, 26257), (114, 26278), (119, 26299), (121, 26308), (133, 26371), (153, 26464), (163, 26521), (166, 26539), (198, 26671), (210, 26719), (219, 26761), (220, 26767), (221, 26770), (228, 26809), (230, 26827), (235, 26842), (236, 26848), (239, 26857), (242, 26872), (253, 26917), (277, 27022), (287, 27058), (302, 27118), (304, 27127), (309, 27154), (316, 27196), (321, 27217),

Gene: Mikota\_29 Start: 26208, Stop: 27641, Start Num: 25

Candidate Starts for Mikota\_29:

(Start: 25 @26208 has 339 MA's), (35, 26265), (40, 26289), (45, 26313), (61, 26388), (101, 26604), (108, 26631), (110, 26640), (114, 26661), (119, 26682), (121, 26691), (133, 26754), (153, 26847), (163, 26904), (166, 26922), (198, 27054), (210, 27102), (219, 27144), (220, 27150), (221, 27153), (228, 27192), (230, 27210), (235, 27225), (236, 27231), (239, 27240), (242, 27255), (253, 27300), (277, 27405), (287, 27441), (302, 27501), (304, 27510), (316, 27579),

Gene: MiniBoss\_29 Start: 26214, Stop: 27647, Start Num: 25

Candidate Starts for MiniBoss\_29:

(Start: 25 @26214 has 339 MA's), (35, 26271), (40, 26295), (45, 26319), (61, 26394), (101, 26610), (108, 26637), (110, 26646), (114, 26667), (119, 26688), (121, 26697), (133, 26760), (153, 26853), (166, 26928), (198, 27060), (210, 27108), (219, 27150), (220, 27156), (221, 27159), (228, 27198), (235, 27231), (236, 27237), (239, 27246), (242, 27261), (253, 27306), (277, 27411), (287, 27447), (302, 27507), (304, 27516), (316, 27585),

Gene: Mischief19\_30 Start: 30827, Stop: 32191, Start Num: 27

Candidate Starts for Mischief19\_30:

(13, 30758), (15, 30776), (23, 30818), (Start: 27 @30827 has 38 MA's), (29, 30842), (34, 30863), (83, 31082), (94, 31151), (104, 31190), (114, 31238), (127, 31304), (192, 31589), (196, 31598), (208, 31628), (244, 31742), (262, 31811), (266, 31817), (268, 31826), (296, 31949), (305, 31979), (318, 32048), (329, 32111),

Gene: MitKao\_29 Start: 25929, Stop: 27362, Start Num: 25

Candidate Starts for MitKao\_29:

(Start: 25 @25929 has 339 MA's), (35, 25986), (40, 26010), (45, 26034), (61, 26109), (101, 26325), (108, 26352), (110, 26361), (114, 26382), (119, 26403), (121, 26412), (133, 26475), (153, 26568), (163, 26625), (166, 26643), (198, 26775), (210, 26823), (219, 26865), (220, 26871), (221, 26874), (228, 26913), (235, 26946), (236, 26952), (239, 26961), (242, 26976), (253, 27021), (277, 27126), (287, 27162), (302, 27222), (304, 27231), (316, 27300),

Gene: Mithril\_26 Start: 26475, Stop: 27908, Start Num: 25

Candidate Starts for Mithril\_26:

(Start: 25 @26475 has 339 MA's), (32, 26508), (35, 26532), (36, 26535), (41, 26565), (51, 26607), (53, 26613), (61, 26655), (70, 26688), (77, 26730), (96, 26847), (101, 26871), (110, 26907), (111, 26913), (119, 26949), (121, 26958), (131, 27009), (139, 27051), (160, 27162), (165, 27180), (166, 27189), (167, 27192), (171, 27213), (184, 27270), (186, 27282), (200, 27324), (202, 27330), (219, 27411), (220, 27417), (223, 27441), (228, 27459), (235, 27492), (239, 27507), (241, 27519), (254, 27570), (256, 27576), (258, 27582), (282, 27687), (286, 27705), (287, 27708), (303, 27774), (307, 27795), (315, 27843), (324, 27882), (328, 27903),

Gene: MmasiCarm\_29 Start: 26132, Stop: 27562, Start Num: 26

Candidate Starts for MmasiCarm\_29:

(Start: 26 @26132 has 105 MA's), (35, 26189), (40, 26213), (41, 26222), (61, 26309), (89, 26459), (93, 26486), (108, 26552), (110, 26561), (117, 26591), (121, 26612), (123, 26630), (136, 26684), (143, 26717), (167, 26846), (184, 26924), (186, 26936), (193, 26957), (197, 26972), (202, 26984), (219, 27065), (220, 27071), (229, 27119), (230, 27131), (241, 27173), (247, 27191), (254, 27224), (265, 27272), (279, 27332), (283, 27347), (287, 27362), (288, 27365), (316, 27500), (322, 27530),

Gene: Morgushi\_29 Start: 25930, Stop: 27363, Start Num: 25

Candidate Starts for Morgushi\_29:

(Start: 25 @25930 has 339 MA's), (35, 25987), (40, 26011), (45, 26035), (61, 26110), (101, 26326), (108, 26353), (110, 26362), (114, 26383), (119, 26404), (121, 26413), (133, 26476), (153, 26569), (163, 26626), (166, 26644), (198, 26776), (210, 26824), (219, 26866), (220, 26872), (221, 26875), (228, 26914), (235, 26947), (236, 26953), (239, 26962), (242, 26977), (253, 27022), (277, 27127), (287, 27163), (302, 27223), (304, 27232), (316, 27301),

Gene: Mortcellus\_28 Start: 26784, Stop: 28214, Start Num: 26

Candidate Starts for Mortcellus\_28:

(Start: 26 @26784 has 105 MA's), (35, 26841), (40, 26865), (41, 26874), (61, 26961), (89, 27111), (93, 27138), (110, 27213), (117, 27243), (121, 27264), (123, 27282), (136, 27336), (143, 27369), (167, 27498), (184, 27576), (186, 27588), (193, 27609), (197, 27624), (202, 27636), (219, 27717), (220, 27723), (230, 27783), (241, 27825), (247, 27843), (254, 27876), (265, 27924), (279, 27984), (283, 27999), (287, 28014), (288, 28017), (303, 28080), (316, 28152), (322, 28182),

Gene: Morty\_29 Start: 26230, Stop: 27663, Start Num: 25

Candidate Starts for Morty\_29:

(Start: 25 @26230 has 339 MA's), (35, 26287), (40, 26311), (45, 26335), (61, 26410), (101, 26626), (108, 26653), (110, 26662), (114, 26683), (119, 26704), (121, 26713), (133, 26776), (153, 26869), (163, 26926), (166, 26944), (198, 27076), (210, 27124), (219, 27166), (220, 27172), (221, 27175), (228, 27214), (235, 27247), (236, 27253), (239, 27262), (242, 27277), (253, 27322), (277, 27427), (287, 27463), (302, 27523), (304, 27532), (316, 27601),

Gene: Morty007\_29 Start: 26928, Stop: 28358, Start Num: 26

Candidate Starts for Morty007\_29:

(Start: 26 @26928 has 105 MA's), (35, 26985), (40, 27009), (41, 27018), (61, 27105), (93, 27282), (108, 27348), (110, 27357), (117, 27387), (121, 27408), (123, 27426), (136, 27480), (167, 27642), (184, 27720), (186, 27732), (193, 27753), (197, 27768), (202, 27780), (219, 27861), (220, 27867), (229, 27915), (230, 27927), (241, 27969), (247, 27987), (254, 28020), (265, 28068), (279, 28128), (283, 28143), (287, 28158), (288, 28161), (303, 28224), (316, 28296), (322, 28326),

Gene: Mosaic\_28 Start: 25935, Stop: 27368, Start Num: 25

Candidate Starts for Mosaic\_28:

(Start: 25 @25935 has 339 MA's), (35, 25992), (40, 26016), (45, 26040), (61, 26115), (101, 26331), (108, 26358), (110, 26367), (114, 26388), (119, 26409), (121, 26418), (133, 26481), (153, 26574), (163, 26631), (166, 26649), (198, 26781), (210, 26829), (219, 26871), (220, 26877), (221, 26880), (228, 26919), (235, 26952), (236, 26958), (239, 26967), (242, 26982), (253, 27027), (277, 27132), (287, 27168), (302, 27228), (304, 27237), (316, 27306),

Gene: MossRose\_27 Start: 25481, Stop: 27007, Start Num: 9

Candidate Starts for MossRose\_27:

(Start: 9 @25481 has 19 MA's), (14, 25514), (16, 25538), (18, 25541), (Start: 27 @25583 has 38 MA's), (Start: 28 @25586 has 1 MA's), (93, 25931), (108, 25997), (117, 26036), (132, 26111), (153, 26213), (163, 26270), (168, 26294), (183, 26360), (184, 26369), (186, 26381), (188, 26384), (200, 26423), (205, 26444), (219, 26510), (220, 26516), (227, 26555), (228, 26558), (235, 26591), (241, 26618), (244, 26627), (247, 26636), (258, 26681), (265, 26717), (269, 26729), (279, 26777), (302, 26867),

(315, 26942), (322, 26975),

Gene: MrPhizzler\_29 Start: 25937, Stop: 27370, Start Num: 25

Candidate Starts for MrPhizzler\_29:

(Start: 25 @25937 has 339 MA's), (35, 25994), (40, 26018), (45, 26042), (61, 26117), (108, 26360), (110, 26369), (114, 26390), (119, 26411), (121, 26420), (133, 26483), (153, 26576), (154, 26579), (163, 26633), (166, 26651), (198, 26783), (210, 26831), (219, 26873), (220, 26879), (221, 26882), (228, 26921), (230, 26939), (235, 26954), (236, 26960), (239, 26969), (242, 26984), (253, 27029), (277, 27134), (287, 27170), (302, 27230), (304, 27239), (309, 27266), (316, 27308), (321, 27329),

Gene: Mudslide\_26 Start: 26707, Stop: 28140, Start Num: 25

Candidate Starts for Mudslide\_26:

(Start: 25 @26707 has 339 MA's), (32, 26740), (35, 26764), (36, 26767), (41, 26797), (51, 26839), (53, 26845), (61, 26887), (70, 26920), (77, 26962), (96, 27079), (101, 27103), (110, 27139), (111, 27145), (119, 27181), (121, 27190), (131, 27241), (139, 27283), (160, 27394), (165, 27412), (166, 27421), (167, 27424), (171, 27445), (184, 27502), (186, 27514), (200, 27556), (202, 27562), (219, 27643), (220, 27649), (223, 27673), (227, 27688), (228, 27691), (235, 27724), (239, 27739), (241, 27751), (254, 27802), (258, 27814), (286, 27937), (287, 27940), (303, 28006), (307, 28027), (315, 28075), (324, 28114), (328, 28135),

Gene: Mulan\_28 Start: 25947, Stop: 27380, Start Num: 25

Candidate Starts for Mulan\_28:

(Start: 25 @25947 has 339 MA's), (35, 26004), (40, 26028), (45, 26052), (61, 26127), (101, 26343), (108, 26370), (110, 26379), (114, 26400), (119, 26421), (121, 26430), (133, 26493), (153, 26586), (163, 26643), (166, 26661), (198, 26793), (210, 26841), (219, 26883), (220, 26889), (221, 26892), (228, 26931), (235, 26964), (236, 26970), (239, 26979), (242, 26994), (253, 27039), (277, 27144), (287, 27180), (302, 27240), (304, 27249), (316, 27318),

Gene: Mulaychimus\_29 Start: 26114, Stop: 27544, Start Num: 26

Candidate Starts for Mulaychimus\_29:

(Start: 26 @26114 has 105 MA's), (35, 26171), (40, 26195), (41, 26204), (61, 26291), (89, 26441), (93, 26468), (110, 26543), (117, 26573), (121, 26594), (123, 26612), (136, 26666), (143, 26699), (167, 26828), (184, 26906), (186, 26918), (193, 26939), (197, 26954), (202, 26966), (219, 27047), (220, 27053), (230, 27113), (241, 27155), (247, 27173), (254, 27206), (265, 27254), (279, 27314), (283, 27329), (287, 27344), (288, 27347), (303, 27410), (316, 27482), (322, 27512),

Gene: Murdoc\_29 Start: 26222, Stop: 27655, Start Num: 25

Candidate Starts for Murdoc\_29:

(Start: 25 @26222 has 339 MA's), (35, 26279), (40, 26303), (45, 26327), (61, 26402), (101, 26618), (108, 26645), (110, 26654), (114, 26675), (119, 26696), (121, 26705), (133, 26768), (153, 26861), (163, 26918), (166, 26936), (198, 27068), (210, 27116), (219, 27158), (220, 27164), (221, 27167), (228, 27206), (235, 27239), (236, 27245), (239, 27254), (242, 27269), (253, 27314), (277, 27419), (287, 27455), (302, 27515), (304, 27524), (316, 27593),

Gene: Mutante\_28 Start: 25929, Stop: 27362, Start Num: 25

Candidate Starts for Mutante\_28:

(Start: 25 @25929 has 339 MA's), (35, 25986), (40, 26010), (45, 26034), (61, 26109), (101, 26325), (108, 26352), (110, 26361), (114, 26382), (119, 26403), (121, 26412), (133, 26475), (153, 26568), (163, 26625), (166, 26643), (198, 26775), (210, 26823), (219, 26865), (220, 26871), (221, 26874), (228, 26913), (235, 26946), (236, 26952), (239, 26961), (242, 26976), (253, 27021), (277, 27126), (287, 27162), (302, 27222), (304, 27231), (316, 27300),

Gene: Mysterious\_28 Start: 26714, Stop: 28147, Start Num: 26

Candidate Starts for Mysterious\_28:

(Start: 26 @26714 has 105 MA's), (44, 26816), (56, 26867), (67, 26915), (76, 26966), (79, 26996), (110, 27146), (111, 27152), (119, 27188), (121, 27197), (163, 27410), (167, 27431), (184, 27509), (189, 27527), (202, 27569), (205, 27584), (206, 27587), (219, 27650), (227, 27695), (241, 27758), (244, 27767), (246, 27773), (256, 27815), (258, 27821), (293, 27980), (304, 28016), (322, 28115), (324, 28121),

Gene: NHagos\_25 Start: 24022, Stop: 25548, Start Num: 9

Candidate Starts for NHagos\_25:

(Start: 9 @24022 has 19 MA's), (14, 24055), (16, 24079), (24, 24118), (Start: 27 @24124 has 38 MA's), (Start: 28 @24127 has 1 MA's), (30, 24142), (77, 24367), (93, 24472), (108, 24538), (109, 24544), (117, 24577), (153, 24754), (165, 24820), (167, 24832), (183, 24901), (184, 24910), (186, 24922), (197, 24958), (200, 24964), (205, 24985), (219, 25051), (220, 25057), (224, 25087), (228, 25099), (235, 25132), (241, 25159), (244, 25168), (247, 25177), (254, 25210), (258, 25222), (285, 25342), (312, 25468), (315, 25483),

Gene: Nacho\_0029 Start: 26221, Stop: 27654, Start Num: 25

Candidate Starts for Nacho\_0029:

(Start: 25 @26221 has 339 MA's), (35, 26278), (40, 26302), (45, 26326), (61, 26401), (101, 26617), (108, 26644), (110, 26653), (114, 26674), (119, 26695), (121, 26704), (133, 26767), (153, 26860), (163, 26917), (166, 26935), (198, 27067), (210, 27115), (219, 27157), (220, 27163), (221, 27166), (228, 27205), (235, 27238), (236, 27244), (239, 27253), (242, 27268), (253, 27313), (277, 27418), (287, 27454), (302, 27514), (304, 27523), (316, 27592),

Gene: Nanao\_25 Start: 25432, Stop: 26865, Start Num: 25

Candidate Starts for Nanao\_25:

(Start: 25 @25432 has 339 MA's), (32, 25465), (35, 25489), (36, 25492), (41, 25522), (50, 25561), (51, 25564), (53, 25570), (61, 25612), (70, 25645), (77, 25687), (79, 25714), (101, 25828), (109, 25861), (110, 25864), (111, 25870), (119, 25906), (121, 25915), (131, 25966), (139, 26008), (156, 26083), (160, 26119), (165, 26137), (166, 26146), (167, 26149), (171, 26170), (184, 26227), (186, 26239), (200, 26281), (202, 26287), (219, 26368), (220, 26374), (223, 26398), (228, 26416), (235, 26449), (239, 26464), (241, 26476), (254, 26527), (258, 26539), (286, 26662), (287, 26665), (303, 26731), (307, 26752), (315, 26800), (324, 26839), (328, 26860),

Gene: Nangang\_28 Start: 26417, Stop: 27850, Start Num: 25

Candidate Starts for Nangang\_28:

(Start: 25 @26417 has 339 MA's), (44, 26519), (76, 26669), (79, 26699), (85, 26717), (91, 26759), (110, 26849), (111, 26855), (119, 26891), (121, 26900), (135, 26969), (167, 27134), (202, 27272), (206, 27290), (219, 27353), (244, 27470), (246, 27476), (279, 27620), (290, 27662), (293, 27683), (322, 27818), (324, 27824),

Gene: Nathan\_29 Start: 26254, Stop: 27687, Start Num: 25

Candidate Starts for Nathan\_29:

(Start: 25 @26254 has 339 MA's), (35, 26311), (40, 26335), (45, 26359), (61, 26434), (101, 26650), (108, 26677), (110, 26686), (114, 26707), (119, 26728), (121, 26737), (133, 26800), (153, 26893), (163, 26950), (166, 26968), (198, 27100), (210, 27148), (219, 27190), (220, 27196), (221, 27199), (228, 27238), (235, 27271), (236, 27277), (239, 27286), (242, 27301), (253, 27346), (277, 27451), (287, 27487), (302, 27547), (304, 27556), (309, 27583), (316, 27625), (321, 27646),

Gene: Nehemiah\_27 Start: 26714, Stop: 28147, Start Num: 26

Candidate Starts for Nehemiah\_27:

(Start: 26 @26714 has 105 MA's), (44, 26816), (56, 26867), (67, 26915), (72, 26945), (76, 26966), (79, 26996), (110, 27146), (111, 27152), (119, 27188), (121, 27197), (162, 27407), (163, 27410), (167,

27431), (184, 27509), (189, 27527), (202, 27569), (206, 27587), (219, 27650), (227, 27695), (241, 27758), (244, 27767), (246, 27773), (256, 27815), (258, 27821), (293, 27980), (304, 28016), (322, 28115), (324, 28121),

Gene: Neos5\_29 Start: 26944, Stop: 28374, Start Num: 26

Candidate Starts for Neos5\_29:

(Start: 26 @26944 has 105 MA's), (35, 27001), (40, 27025), (41, 27034), (61, 27121), (89, 27271), (93, 27298), (110, 27373), (117, 27403), (121, 27424), (123, 27442), (136, 27496), (143, 27529), (167, 27658), (184, 27736), (186, 27748), (193, 27769), (197, 27784), (202, 27796), (219, 27877), (220, 27883), (229, 27931), (230, 27943), (241, 27985), (247, 28003), (254, 28036), (265, 28084), (279, 28144), (283, 28159), (287, 28174), (288, 28177), (303, 28240), (316, 28312), (322, 28342),

Gene: Newman\_29 Start: 26217, Stop: 27650, Start Num: 25

Candidate Starts for Newman\_29:

(Start: 25 @26217 has 339 MA's), (35, 26274), (40, 26298), (45, 26322), (61, 26397), (101, 26613), (108, 26640), (110, 26649), (114, 26670), (119, 26691), (121, 26700), (133, 26763), (153, 26856), (163, 26913), (166, 26931), (198, 27063), (210, 27111), (219, 27153), (220, 27159), (221, 27162), (228, 27201), (235, 27234), (236, 27240), (239, 27249), (242, 27264), (253, 27309), (277, 27414), (287, 27450), (302, 27510), (304, 27519), (316, 27588),

Gene: NiaNia\_30 Start: 25952, Stop: 27385, Start Num: 25

Candidate Starts for NiaNia\_30:

(Start: 25 @25952 has 339 MA's), (35, 26009), (40, 26033), (45, 26057), (61, 26132), (101, 26348), (108, 26375), (110, 26384), (114, 26405), (119, 26426), (121, 26435), (133, 26498), (153, 26591), (163, 26648), (166, 26666), (198, 26798), (210, 26846), (219, 26888), (220, 26894), (221, 26897), (228, 26936), (235, 26969), (236, 26975), (239, 26984), (242, 26999), (253, 27044), (277, 27149), (287, 27185), (302, 27245), (304, 27254), (316, 27323),

Gene: Nicole21\_29 Start: 26219, Stop: 27652, Start Num: 25

Candidate Starts for Nicole21\_29:

(Start: 25 @26219 has 339 MA's), (35, 26276), (40, 26300), (45, 26324), (61, 26399), (101, 26615), (108, 26642), (110, 26651), (114, 26672), (119, 26693), (121, 26702), (133, 26765), (153, 26858), (163, 26915), (166, 26933), (198, 27065), (210, 27113), (219, 27155), (220, 27161), (221, 27164), (228, 27203), (230, 27221), (235, 27236), (236, 27242), (239, 27251), (242, 27266), (253, 27311), (277, 27416), (287, 27452), (302, 27512), (304, 27521), (316, 27590),

Gene: Nigel\_24 Start: 25343, Stop: 26776, Start Num: 25

Candidate Starts for Nigel\_24:

(Start: 25 @25343 has 339 MA's), (32, 25376), (35, 25400), (36, 25403), (41, 25433), (53, 25481), (61, 25523), (70, 25556), (77, 25598), (101, 25739), (109, 25772), (110, 25775), (111, 25781), (119, 25817), (121, 25826), (126, 25856), (131, 25877), (136, 25898), (160, 26030), (165, 26048), (166, 26057), (167, 26060), (171, 26081), (184, 26138), (186, 26150), (200, 26192), (202, 26198), (219, 26279), (220, 26285), (223, 26309), (235, 26360), (236, 26366), (239, 26375), (258, 26450), (282, 26555), (287, 26576), (303, 26642), (306, 26654), (307, 26663), (315, 26711), (316, 26714), (324, 26750), (328, 26771),

Gene: Nikan\_32 Start: 25401, Stop: 26615, Start Num: 27

Candidate Starts for Nikan\_32:

(Start: 27 @25401 has 38 MA's), (30, 25419), (32, 25431), (37, 25467), (41, 25488), (43, 25494), (49, 25515), (88, 25662), (89, 25668), (104, 25734), (112, 25770), (113, 25773), (129, 25842), (148, 25923), (157, 25971), (159, 25977), (161, 25980), (169, 26013), (199, 26133), (243, 26271), (244, 26274), (249, 26289), (252, 26307), (255, 26316), (313, 26547), (318, 26562), (322, 26580), (325, 26589),

Gene: Nova1\_28 Start: 25878, Stop: 27311, Start Num: 25

Candidate Starts for Nova1\_28:

(Start: 25 @25878 has 339 MA's), (35, 25935), (40, 25959), (45, 25983), (61, 26058), (101, 26274), (108, 26301), (110, 26310), (114, 26331), (119, 26352), (121, 26361), (133, 26424), (153, 26517), (163, 26574), (166, 26592), (198, 26724), (210, 26772), (219, 26814), (220, 26820), (221, 26823), (228, 26862), (230, 26880), (235, 26895), (236, 26901), (239, 26910), (242, 26925), (253, 26970), (277, 27075), (287, 27111), (302, 27171), (304, 27180), (309, 27207), (316, 27249), (321, 27270),

Gene: Nozo\_29 Start: 26908, Stop: 28338, Start Num: 26

Candidate Starts for Nozo\_29:

(Start: 26 @26908 has 105 MA's), (35, 26965), (40, 26989), (41, 26998), (61, 27085), (93, 27262), (108, 27328), (110, 27337), (117, 27367), (121, 27388), (123, 27406), (136, 27460), (143, 27493), (167, 27622), (184, 27700), (186, 27712), (193, 27733), (197, 27748), (202, 27760), (219, 27841), (220, 27847), (230, 27907), (241, 27949), (247, 27967), (254, 28000), (265, 28048), (279, 28108), (283, 28123), (287, 28138), (288, 28141), (303, 28204), (316, 28276), (322, 28306),

Gene: Numberten\_29 Start: 26227, Stop: 27660, Start Num: 25

Candidate Starts for Numberten\_29:

(Start: 25 @26227 has 339 MA's), (35, 26284), (40, 26308), (45, 26332), (61, 26407), (101, 26623), (108, 26650), (110, 26659), (114, 26680), (119, 26701), (121, 26710), (133, 26773), (153, 26866), (163, 26923), (166, 26941), (198, 27073), (210, 27121), (219, 27163), (220, 27169), (221, 27172), (228, 27211), (235, 27244), (236, 27250), (239, 27259), (242, 27274), (253, 27319), (277, 27424), (287, 27460), (302, 27520), (304, 27529), (316, 27598),

Gene: Nyala\_28 Start: 25921, Stop: 27354, Start Num: 25

Candidate Starts for Nyala\_28:

(Start: 25 @25921 has 339 MA's), (35, 25978), (40, 26002), (45, 26026), (61, 26101), (101, 26317), (108, 26344), (110, 26353), (114, 26374), (119, 26395), (121, 26404), (133, 26467), (153, 26560), (163, 26617), (166, 26635), (198, 26767), (210, 26815), (219, 26857), (220, 26863), (221, 26866), (228, 26905), (235, 26938), (236, 26944), (239, 26953), (242, 26968), (253, 27013), (277, 27118), (287, 27154), (302, 27214), (304, 27223), (316, 27292),

Gene: NyleyClemson\_32 Start: 25085, Stop: 26293, Start Num: 27

Candidate Starts for NyleyClemson\_32:

(Start: 27 @25085 has 38 MA's), (32, 25115), (37, 25151), (89, 25346), (104, 25412), (105, 25415), (112, 25448), (113, 25451), (114, 25460), (118, 25478), (129, 25520), (134, 25538), (148, 25601), (155, 25625), (159, 25655), (165, 25667), (169, 25691), (180, 25736), (190, 25784), (199, 25811), (243, 25949), (244, 25952), (252, 25985), (280, 26084), (295, 26144), (313, 26225), (318, 26240), (323, 26261), (325, 26267),

Gene: OSmaximus\_29 Start: 26256, Stop: 27689, Start Num: 25

Candidate Starts for OSmaximus\_29:

(Start: 25 @26256 has 339 MA's), (35, 26313), (40, 26337), (45, 26361), (61, 26436), (101, 26652), (108, 26679), (110, 26688), (114, 26709), (119, 26730), (121, 26739), (133, 26802), (153, 26895), (163, 26952), (166, 26970), (198, 27102), (210, 27150), (219, 27192), (220, 27198), (221, 27201), (228, 27240), (235, 27273), (236, 27279), (239, 27288), (242, 27303), (253, 27348), (277, 27453), (287, 27489), (302, 27549), (304, 27558), (309, 27585), (316, 27627),

Gene: Obutu\_29 Start: 26132, Stop: 27562, Start Num: 26

Candidate Starts for Obutu\_29:

(Start: 26 @26132 has 105 MA's), (35, 26189), (40, 26213), (41, 26222), (61, 26309), (89, 26459), (93, 26486), (110, 26561), (117, 26591), (121, 26612), (123, 26630), (136, 26684), (143, 26717), (167,

26846), (184, 26924), (186, 26936), (193, 26957), (197, 26972), (202, 26984), (219, 27065), (220, 27071), (230, 27131), (241, 27173), (247, 27191), (254, 27224), (265, 27272), (279, 27332), (283, 27347), (287, 27362), (288, 27365), (303, 27428), (316, 27500), (322, 27530),

Gene: Odyssey395\_39 Start: 26436, Stop: 27644, Start Num: 27

Candidate Starts for Odyssey395\_39:

(Start: 27 @26436 has 38 MA's), (32, 26466), (37, 26502), (89, 26697), (104, 26763), (105, 26766), (112, 26799), (113, 26802), (114, 26811), (118, 26829), (129, 26871), (134, 26889), (148, 26952), (155, 26976), (159, 27006), (165, 27018), (169, 27042), (180, 27087), (190, 27135), (199, 27162), (243, 27300), (244, 27303), (252, 27336), (280, 27435), (295, 27495), (313, 27576), (318, 27591), (323, 27612), (325, 27618),

Gene: Olak\_28 Start: 25925, Stop: 27358, Start Num: 25

Candidate Starts for Olak\_28:

(Start: 25 @25925 has 339 MA's), (35, 25982), (40, 26006), (45, 26030), (61, 26105), (101, 26321), (108, 26348), (110, 26357), (114, 26378), (119, 26399), (121, 26408), (133, 26471), (153, 26564), (163, 26621), (166, 26639), (198, 26771), (210, 26819), (219, 26861), (220, 26867), (221, 26870), (228, 26909), (235, 26942), (236, 26948), (239, 26957), (242, 26972), (253, 27017), (277, 27122), (287, 27158), (302, 27218), (304, 27227), (316, 27296),

Gene: Oline\_28 Start: 25790, Stop: 27223, Start Num: 25

Candidate Starts for Oline\_28:

(Start: 25 @25790 has 339 MA's), (35, 25847), (40, 25871), (45, 25895), (61, 25970), (108, 26213), (110, 26222), (114, 26243), (119, 26264), (121, 26273), (133, 26336), (153, 26429), (154, 26432), (163, 26486), (166, 26504), (198, 26636), (210, 26684), (219, 26726), (220, 26732), (221, 26735), (228, 26774), (230, 26792), (235, 26807), (236, 26813), (239, 26822), (242, 26837), (253, 26882), (277, 26987), (287, 27023), (302, 27083), (304, 27092), (309, 27119), (316, 27161), (321, 27182),

Gene: Olive\_29 Start: 26211, Stop: 27644, Start Num: 25

Candidate Starts for Olive\_29:

(Start: 25 @26211 has 339 MA's), (35, 26268), (40, 26292), (45, 26316), (61, 26391), (101, 26607), (108, 26634), (110, 26643), (114, 26664), (119, 26685), (121, 26694), (133, 26757), (153, 26850), (163, 26907), (166, 26925), (198, 27057), (210, 27105), (219, 27147), (220, 27153), (221, 27156), (228, 27195), (235, 27228), (236, 27234), (239, 27243), (242, 27258), (253, 27303), (277, 27408), (287, 27444), (302, 27504), (304, 27513), (316, 27582),

Gene: OliverWalter\_29 Start: 26230, Stop: 27663, Start Num: 25

Candidate Starts for OliverWalter\_29:

(Start: 25 @26230 has 339 MA's), (35, 26287), (40, 26311), (45, 26335), (61, 26410), (101, 26626), (108, 26653), (110, 26662), (114, 26683), (119, 26704), (121, 26713), (133, 26776), (153, 26869), (163, 26926), (166, 26944), (198, 27076), (210, 27124), (219, 27166), (220, 27172), (221, 27175), (228, 27214), (235, 27247), (236, 27253), (239, 27262), (242, 27277), (253, 27322), (277, 27427), (287, 27463), (302, 27523), (304, 27532), (316, 27601),

Gene: Olivio\_28 Start: 26001, Stop: 27431, Start Num: 26

Candidate Starts for Olivio\_28:

(Start: 26 @26001 has 105 MA's), (35, 26058), (40, 26082), (41, 26091), (61, 26178), (89, 26328), (93, 26355), (110, 26430), (117, 26460), (121, 26481), (123, 26499), (136, 26553), (143, 26586), (145, 26604), (167, 26715), (184, 26793), (186, 26805), (193, 26826), (197, 26841), (202, 26853), (219, 26934), (220, 26940), (230, 27000), (241, 27042), (247, 27060), (254, 27093), (265, 27141), (279, 27201), (283, 27216), (287, 27231), (288, 27234), (303, 27297), (316, 27369), (322, 27399),

Gene: Ollypop\_35 Start: 25507, Stop: 26721, Start Num: 27

Candidate Starts for Ollypop\_35:

(Start: 27 @25507 has 38 MA's), (30, 25525), (32, 25537), (37, 25573), (41, 25594), (49, 25621), (88, 25768), (89, 25774), (94, 25801), (104, 25840), (105, 25843), (112, 25876), (113, 25879), (129, 25948), (134, 25966), (148, 26029), (151, 26038), (159, 26083), (161, 26086), (169, 26119), (199, 26239), (243, 26377), (244, 26380), (249, 26395), (252, 26413), (255, 26422), (278, 26506), (280, 26512), (281, 26515), (313, 26653), (315, 26659), (318, 26668), (322, 26686), (325, 26695),

Gene: Omniscient\_29 Start: 26230, Stop: 27663, Start Num: 25

Candidate Starts for Omniscient\_29:

(Start: 25 @26230 has 339 MA's), (35, 26287), (40, 26311), (45, 26335), (61, 26410), (101, 26626), (108, 26653), (110, 26662), (114, 26683), (119, 26704), (121, 26713), (133, 26776), (153, 26869), (163, 26926), (166, 26944), (198, 27076), (210, 27124), (219, 27166), (220, 27172), (221, 27175), (228, 27214), (235, 27247), (236, 27253), (239, 27262), (242, 27277), (253, 27322), (277, 27427), (287, 27463), (302, 27523), (304, 27532), (316, 27601),

Gene: OneBrain\_29 Start: 25929, Stop: 27362, Start Num: 25

Candidate Starts for OneBrain\_29:

(Start: 25 @25929 has 339 MA's), (35, 25986), (40, 26010), (45, 26034), (61, 26109), (101, 26325), (108, 26352), (110, 26361), (114, 26382), (119, 26403), (121, 26412), (133, 26475), (153, 26568), (166, 26643), (198, 26775), (210, 26823), (219, 26865), (220, 26871), (221, 26874), (228, 26913), (230, 26931), (235, 26946), (236, 26952), (239, 26961), (242, 26976), (253, 27021), (277, 27126), (287, 27162), (302, 27222), (304, 27231), (309, 27258), (316, 27300), (321, 27321),

Gene: Oosterbaan\_29 Start: 26221, Stop: 27654, Start Num: 25

Candidate Starts for Oosterbaan\_29:

(Start: 25 @26221 has 339 MA's), (35, 26278), (40, 26302), (45, 26326), (61, 26401), (101, 26617), (108, 26644), (110, 26653), (114, 26674), (119, 26695), (121, 26704), (133, 26767), (153, 26860), (163, 26917), (166, 26935), (198, 27067), (210, 27115), (219, 27157), (220, 27163), (221, 27166), (228, 27205), (235, 27238), (236, 27244), (239, 27253), (242, 27268), (253, 27313), (277, 27418), (287, 27454), (302, 27514), (304, 27523), (316, 27592),

Gene: Opia\_30 Start: 27476, Stop: 28912, Start Num: 26

Candidate Starts for Opia\_30:

(Start: 26 @27476 has 105 MA's), (32, 27509), (35, 27533), (36, 27536), (40, 27557), (44, 27578), (51, 27611), (60, 27656), (63, 27665), (77, 27728), (109, 27908), (110, 27911), (114, 27932), (120, 27956), (121, 27962), (123, 27980), (130, 28010), (131, 28013), (134, 28028), (136, 28034), (150, 28103), (158, 28157), (163, 28175), (166, 28193), (167, 28196), (172, 28220), (184, 28274), (195, 28313), (201, 28331), (206, 28352), (218, 28409), (219, 28415), (221, 28424), (230, 28481), (244, 28532), (247, 28541), (254, 28574), (257, 28583), (271, 28649), (282, 28691), (287, 28712), (290, 28724), (292, 28742), (304, 28781), (315, 28847), (316, 28850), (322, 28880),

Gene: OrangeOswald\_29 Start: 26146, Stop: 27576, Start Num: 26

Candidate Starts for OrangeOswald\_29:

(Start: 26 @26146 has 105 MA's), (35, 26203), (40, 26227), (41, 26236), (61, 26323), (89, 26473), (93, 26500), (110, 26575), (117, 26605), (121, 26626), (123, 26644), (136, 26698), (143, 26731), (167, 26860), (184, 26938), (186, 26950), (193, 26971), (197, 26986), (202, 26998), (219, 27079), (220, 27085), (229, 27133), (230, 27145), (241, 27187), (247, 27205), (254, 27238), (265, 27286), (279, 27346), (283, 27361), (287, 27376), (288, 27379), (303, 27442), (316, 27514), (322, 27544),

Gene: Orfeu\_28 Start: 25929, Stop: 27362, Start Num: 25

Candidate Starts for Orfeu\_28:

(Start: 25 @25929 has 339 MA's), (35, 25986), (40, 26010), (45, 26034), (61, 26109), (101, 26325), (108, 26352), (110, 26361), (114, 26382), (119, 26403), (121, 26412), (133, 26475), (153, 26568),

(163, 26625), (166, 26643), (198, 26775), (210, 26823), (219, 26865), (220, 26871), (221, 26874), (228, 26913), (235, 26946), (236, 26952), (239, 26961), (242, 26976), (253, 27021), (277, 27126), (287, 27162), (302, 27222), (304, 27231), (316, 27300),

Gene: Orion\_29 Start: 26219, Stop: 27652, Start Num: 25

Candidate Starts for Orion\_29:

(Start: 25 @26219 has 339 MA's), (35, 26276), (40, 26300), (45, 26324), (61, 26399), (101, 26615), (108, 26642), (110, 26651), (114, 26672), (119, 26693), (121, 26702), (133, 26765), (153, 26858), (163, 26915), (166, 26933), (198, 27065), (210, 27113), (219, 27155), (220, 27161), (221, 27164), (228, 27203), (235, 27236), (236, 27242), (239, 27251), (242, 27266), (253, 27311), (277, 27416), (287, 27452), (302, 27512), (304, 27521), (316, 27590),

Gene: Orwigg\_28 Start: 25917, Stop: 27350, Start Num: 25

Candidate Starts for Orwigg\_28:

(Start: 25 @25917 has 339 MA's), (35, 25974), (40, 25998), (45, 26022), (61, 26097), (101, 26313), (108, 26340), (110, 26349), (114, 26370), (119, 26391), (121, 26400), (133, 26463), (153, 26556), (163, 26613), (166, 26631), (198, 26763), (210, 26811), (219, 26853), (220, 26859), (221, 26862), (228, 26901), (235, 26934), (236, 26940), (239, 26949), (242, 26964), (253, 27009), (277, 27114), (287, 27150), (302, 27210), (304, 27219), (316, 27288),

Gene: PG1\_29 Start: 26232, Stop: 27665, Start Num: 25

Candidate Starts for PG1\_29:

(Start: 25 @26232 has 339 MA's), (35, 26289), (40, 26313), (45, 26337), (61, 26412), (101, 26628), (108, 26655), (110, 26664), (114, 26685), (119, 26706), (121, 26715), (133, 26778), (153, 26871), (163, 26928), (166, 26946), (198, 27078), (210, 27126), (219, 27168), (220, 27174), (221, 27177), (228, 27216), (235, 27249), (236, 27255), (239, 27264), (242, 27279), (253, 27324), (277, 27429), (287, 27465), (302, 27525), (304, 27534), (316, 27603),

Gene: PR\_22 Start: 24737, Stop: 26173, Start Num: 27

Candidate Starts for PR\_22:

(Start: 27 @24737 has 38 MA's), (31, 24758), (32, 24767), (60, 24914), (63, 24923), (82, 25025), (86, 25043), (93, 25094), (99, 25124), (108, 25160), (110, 25169), (115, 25193), (117, 25199), (131, 25271), (163, 25433), (164, 25439), (166, 25451), (167, 25454), (184, 25532), (186, 25544), (197, 25580), (203, 25595), (206, 25613), (219, 25676), (220, 25682), (222, 25703), (227, 25721), (228, 25724), (230, 25742), (240, 25775), (241, 25784), (244, 25793), (247, 25802), (254, 25835), (269, 25895), (271, 25910), (279, 25943), (287, 25973), (300, 26027), (315, 26108), (316, 26111), (322, 26141),

Gene: Pacifista\_28 Start: 25923, Stop: 27356, Start Num: 25

Candidate Starts for Pacifista\_28:

(Start: 25 @25923 has 339 MA's), (35, 25980), (40, 26004), (45, 26028), (61, 26103), (101, 26319), (108, 26346), (110, 26355), (114, 26376), (119, 26397), (121, 26406), (133, 26469), (153, 26562), (163, 26619), (166, 26637), (198, 26769), (210, 26817), (219, 26859), (220, 26865), (221, 26868), (228, 26907), (235, 26940), (236, 26946), (239, 26955), (242, 26970), (253, 27015), (277, 27120), (287, 27156), (302, 27216), (304, 27225), (316, 27294),

Gene: PallasAthena\_29 Start: 25931, Stop: 27364, Start Num: 25

Candidate Starts for PallasAthena\_29:

(Start: 25 @25931 has 339 MA's), (35, 25988), (40, 26012), (45, 26036), (61, 26111), (101, 26327), (108, 26354), (110, 26363), (114, 26384), (119, 26405), (121, 26414), (133, 26477), (153, 26570), (163, 26627), (166, 26645), (198, 26777), (210, 26825), (219, 26867), (220, 26873), (221, 26876), (228, 26915), (235, 26948), (236, 26954), (239, 26963), (242, 26978), (253, 27023), (277, 27128), (287, 27164), (302, 27224), (304, 27233), (316, 27302),

Gene: PenguinLover67\_30 Start: 28415, Stop: 29851, Start Num: 25

Candidate Starts for PenguinLover67\_30:

(Start: 25 @28415 has 339 MA's), (35, 28472), (36, 28475), (40, 28496), (61, 28595), (70, 28628), (77, 28670), (101, 28811), (109, 28844), (110, 28847), (111, 28853), (121, 28898), (126, 28928), (134, 28964), (136, 28970), (163, 29111), (167, 29132), (183, 29201), (189, 29228), (197, 29258), (205, 29285), (219, 29354), (220, 29360), (227, 29399), (228, 29402), (239, 29450), (240, 29453), (244, 29471), (253, 29510), (270, 29585), (317, 29792),

Gene: Phaedrus\_27 Start: 26065, Stop: 27495, Start Num: 26

Candidate Starts for Phaedrus\_27:

(Start: 26 @26065 has 105 MA's), (35, 26122), (40, 26146), (41, 26155), (61, 26242), (93, 26419), (108, 26485), (110, 26494), (117, 26524), (121, 26545), (123, 26563), (136, 26617), (167, 26779), (184, 26857), (186, 26869), (193, 26890), (197, 26905), (202, 26917), (219, 26998), (220, 27004), (229, 27052), (230, 27064), (241, 27106), (247, 27124), (254, 27157), (265, 27205), (279, 27265), (283, 27280), (287, 27295), (288, 27298), (303, 27361), (316, 27433), (322, 27463),

Gene: Phamished\_29 Start: 26227, Stop: 27660, Start Num: 25

Candidate Starts for Phamished\_29:

(Start: 25 @26227 has 339 MA's), (35, 26284), (40, 26308), (45, 26332), (61, 26407), (101, 26623), (108, 26650), (110, 26659), (114, 26680), (119, 26701), (121, 26710), (133, 26773), (153, 26866), (163, 26923), (166, 26941), (198, 27073), (210, 27121), (219, 27163), (220, 27169), (221, 27172), (228, 27211), (235, 27244), (236, 27250), (239, 27259), (242, 27274), (253, 27319), (277, 27424), (287, 27460), (302, 27520), (304, 27529), (316, 27598),

Gene: Phantasmagoria\_30 Start: 27487, Stop: 28923, Start Num: 26

Candidate Starts for Phantasmagoria\_30:

(Start: 26 @27487 has 105 MA's), (32, 27520), (35, 27544), (36, 27547), (40, 27568), (44, 27589), (51, 27622), (60, 27667), (63, 27676), (77, 27739), (109, 27919), (110, 27922), (114, 27943), (120, 27967), (121, 27973), (123, 27991), (130, 28021), (131, 28024), (136, 28045), (150, 28114), (158, 28168), (163, 28186), (166, 28204), (167, 28207), (172, 28231), (184, 28285), (195, 28324), (201, 28342), (206, 28363), (218, 28420), (219, 28426), (221, 28435), (230, 28492), (244, 28543), (247, 28552), (254, 28585), (257, 28594), (271, 28660), (282, 28702), (287, 28723), (290, 28735), (292, 28753), (304, 28792), (315, 28858), (316, 28861), (322, 28891),

Gene: Phareon\_29 Start: 25931, Stop: 27364, Start Num: 25

Candidate Starts for Phareon\_29:

(Start: 25 @25931 has 339 MA's), (35, 25988), (40, 26012), (45, 26036), (61, 26111), (101, 26327), (108, 26354), (110, 26363), (114, 26384), (119, 26405), (121, 26414), (133, 26477), (153, 26570), (163, 26627), (166, 26645), (198, 26777), (210, 26825), (219, 26867), (220, 26873), (221, 26876), (228, 26915), (235, 26948), (236, 26954), (239, 26963), (242, 26978), (253, 27023), (277, 27128), (287, 27164), (302, 27224), (304, 27233), (316, 27302),

Gene: PhatCats2014\_29 Start: 26236, Stop: 27669, Start Num: 25

Candidate Starts for PhatCats2014\_29:

(Start: 25 @26236 has 339 MA's), (35, 26293), (40, 26317), (45, 26341), (61, 26416), (101, 26632), (108, 26659), (110, 26668), (114, 26689), (119, 26710), (121, 26719), (133, 26782), (153, 26875), (163, 26932), (166, 26950), (198, 27082), (210, 27130), (219, 27172), (220, 27178), (221, 27181), (228, 27220), (235, 27253), (236, 27259), (239, 27268), (242, 27283), (253, 27328), (277, 27433), (287, 27469), (302, 27529), (304, 27538), (316, 27607),

Gene: PhatLouie\_29 Start: 26225, Stop: 27658, Start Num: 25

Candidate Starts for PhatLouie\_29:

(Start: 25 @26225 has 339 MA's), (35, 26282), (40, 26306), (45, 26330), (61, 26405), (108, 26648), (110, 26657), (114, 26678), (119, 26699), (121, 26708), (133, 26771), (153, 26864), (154, 26867), (163, 26921), (166, 26939), (198, 27071), (210, 27119), (219, 27161), (220, 27167), (221, 27170), (228, 27209), (230, 27227), (235, 27242), (236, 27248), (239, 27257), (242, 27272), (253, 27317), (277, 27422), (287, 27458), (302, 27518), (304, 27527), (309, 27554), (316, 27596), (321, 27617),

Gene: Phayeta\_29 Start: 26013, Stop: 27443, Start Num: 26

Candidate Starts for Phayeta\_29:

(Start: 26 @26013 has 105 MA's), (35, 26070), (40, 26094), (41, 26103), (61, 26190), (89, 26340), (93, 26367), (110, 26442), (117, 26472), (121, 26493), (123, 26511), (136, 26565), (143, 26598), (167, 26727), (184, 26805), (186, 26817), (193, 26838), (197, 26853), (202, 26865), (219, 26946), (220, 26952), (230, 27012), (241, 27054), (247, 27072), (254, 27105), (265, 27153), (279, 27213), (283, 27228), (287, 27243), (288, 27246), (303, 27309), (316, 27381), (322, 27411),

Gene: Phelemich\_28 Start: 26710, Stop: 28143, Start Num: 26

Candidate Starts for Phelemich\_28:

(Start: 26 @26710 has 105 MA's), (44, 26812), (56, 26863), (67, 26911), (76, 26962), (79, 26992), (110, 27142), (111, 27148), (119, 27184), (121, 27193), (163, 27406), (184, 27505), (186, 27517), (189, 27523), (202, 27565), (205, 27580), (206, 27583), (219, 27646), (227, 27691), (241, 27754), (244, 27763), (246, 27769), (256, 27811), (258, 27817), (293, 27976), (304, 28012), (322, 28111), (324, 28117),

Gene: PhenghisKhan\_28 Start: 25831, Stop: 27264, Start Num: 25

Candidate Starts for PhenghisKhan\_28:

(Start: 25 @25831 has 339 MA's), (35, 25888), (40, 25912), (45, 25936), (61, 26011), (108, 26254), (110, 26263), (114, 26284), (119, 26305), (121, 26314), (133, 26377), (153, 26470), (163, 26527), (166, 26545), (198, 26677), (210, 26725), (219, 26767), (220, 26773), (221, 26776), (228, 26815), (230, 26833), (235, 26848), (236, 26854), (239, 26863), (242, 26878), (253, 26923), (277, 27028), (287, 27064), (302, 27124), (304, 27133), (309, 27160), (316, 27202), (321, 27223),

Gene: Pherdinand\_29 Start: 26227, Stop: 27660, Start Num: 25

Candidate Starts for Pherdinand\_29:

(Start: 25 @26227 has 339 MA's), (35, 26284), (40, 26308), (45, 26332), (61, 26407), (101, 26623), (108, 26650), (110, 26659), (114, 26680), (119, 26701), (121, 26710), (133, 26773), (153, 26866), (163, 26923), (166, 26941), (198, 27073), (210, 27121), (219, 27163), (220, 27169), (221, 27172), (228, 27211), (235, 27244), (236, 27250), (239, 27259), (242, 27274), (253, 27319), (277, 27424), (287, 27460), (302, 27520), (304, 27529), (316, 27598),

Gene: Phergie\_28 Start: 25822, Stop: 27255, Start Num: 25

Candidate Starts for Phergie\_28:

(Start: 25 @25822 has 339 MA's), (35, 25879), (40, 25903), (45, 25927), (61, 26002), (108, 26245), (110, 26254), (114, 26275), (119, 26296), (121, 26305), (133, 26368), (153, 26461), (163, 26518), (166, 26536), (198, 26668), (210, 26716), (219, 26758), (220, 26764), (221, 26767), (228, 26806), (230, 26824), (235, 26839), (236, 26845), (239, 26854), (242, 26869), (253, 26914), (277, 27019), (287, 27055), (302, 27115), (304, 27124), (309, 27151), (316, 27193), (321, 27214),

Gene: Philly\_28 Start: 26000, Stop: 27430, Start Num: 26

Candidate Starts for Philly\_28:

(Start: 26 @26000 has 105 MA's), (35, 26057), (40, 26081), (41, 26090), (61, 26177), (89, 26327), (93, 26354), (110, 26429), (117, 26459), (121, 26480), (123, 26498), (136, 26552), (143, 26585), (167, 26714), (184, 26792), (186, 26804), (193, 26825), (197, 26840), (202, 26852), (219, 26933), (220, 26939), (229, 26987), (230, 26999), (241, 27041), (247, 27059), (254, 27092), (265, 27140), (279, 27200), (283, 27215), (287, 27230), (288, 27233), (316, 27368), (322, 27398),

Gene: Phipps\_29 Start: 26197, Stop: 27630, Start Num: 25

Candidate Starts for Phipps\_29:

(Start: 25 @26197 has 339 MA's), (35, 26254), (40, 26278), (45, 26302), (61, 26377), (101, 26593), (108, 26620), (110, 26629), (114, 26650), (119, 26671), (121, 26680), (133, 26743), (153, 26836), (163, 26893), (166, 26911), (198, 27043), (210, 27091), (219, 27133), (220, 27139), (221, 27142), (228, 27181), (235, 27214), (236, 27220), (239, 27229), (242, 27244), (253, 27289), (277, 27394), (287, 27430), (302, 27490), (304, 27499), (316, 27568),

Gene: Phleuron\_28 Start: 25828, Stop: 27261, Start Num: 25

Candidate Starts for Phleuron\_28:

(Start: 25 @25828 has 339 MA's), (35, 25885), (40, 25909), (45, 25933), (61, 26008), (108, 26251), (110, 26260), (114, 26281), (119, 26302), (121, 26311), (133, 26374), (153, 26467), (163, 26524), (166, 26542), (198, 26674), (210, 26722), (219, 26764), (220, 26770), (221, 26773), (228, 26812), (230, 26830), (235, 26845), (236, 26851), (239, 26860), (242, 26875), (253, 26920), (277, 27025), (287, 27061), (302, 27121), (304, 27130), (309, 27157), (316, 27199), (321, 27220),

Gene: Phlyer\_29 Start: 26881, Stop: 28311, Start Num: 26

Candidate Starts for Phlyer\_29:

(Start: 26 @26881 has 105 MA's), (35, 26938), (40, 26962), (41, 26971), (61, 27058), (89, 27208), (93, 27235), (110, 27310), (117, 27340), (121, 27361), (123, 27379), (136, 27433), (143, 27466), (167, 27595), (184, 27673), (186, 27685), (193, 27706), (197, 27721), (202, 27733), (219, 27814), (220, 27820), (229, 27868), (230, 27880), (241, 27922), (247, 27940), (254, 27973), (265, 28021), (279, 28081), (283, 28096), (287, 28111), (288, 28114), (316, 28249), (322, 28279),

Gene: PhrankReynolds\_28 Start: 25828, Stop: 27261, Start Num: 25

Candidate Starts for PhrankReynolds\_28:

(Start: 25 @25828 has 339 MA's), (35, 25885), (40, 25909), (45, 25933), (61, 26008), (108, 26251), (110, 26260), (114, 26281), (119, 26302), (121, 26311), (133, 26374), (153, 26467), (163, 26524), (166, 26542), (198, 26674), (210, 26722), (219, 26764), (220, 26770), (221, 26773), (228, 26812), (230, 26830), (235, 26845), (236, 26851), (239, 26860), (242, 26875), (253, 26920), (277, 27025), (287, 27061), (302, 27121), (304, 27130), (309, 27157), (316, 27199), (321, 27220),

Gene: PhrodoBaggins\_28 Start: 26215, Stop: 27648, Start Num: 25

Candidate Starts for PhrodoBaggins\_28:

(Start: 25 @26215 has 339 MA's), (35, 26272), (40, 26296), (45, 26320), (61, 26395), (101, 26611), (108, 26638), (110, 26647), (114, 26668), (119, 26689), (121, 26698), (133, 26761), (153, 26854), (163, 26911), (166, 26929), (198, 27061), (210, 27109), (219, 27151), (220, 27157), (221, 27160), (228, 27199), (235, 27232), (236, 27238), (239, 27247), (242, 27262), (253, 27307), (277, 27412), (287, 27448), (302, 27508), (304, 27517), (316, 27586),

Gene: Phunky\_29 Start: 26228, Stop: 27661, Start Num: 25

Candidate Starts for Phunky\_29:

(Start: 25 @26228 has 339 MA's), (35, 26285), (40, 26309), (45, 26333), (61, 26408), (101, 26624), (108, 26651), (110, 26660), (114, 26681), (119, 26702), (121, 26711), (133, 26774), (153, 26867), (163, 26924), (166, 26942), (198, 27074), (210, 27122), (219, 27164), (220, 27170), (221, 27173), (228, 27212), (235, 27245), (236, 27251), (239, 27260), (242, 27275), (253, 27320), (277, 27425), (287, 27461), (302, 27521), (304, 27530), (316, 27599),

Gene: PhuzzTulsa\_35 Start: 26396, Stop: 27604, Start Num: 27

Candidate Starts for PhuzzTulsa\_35:

(Start: 27 @26396 has 38 MA's), (32, 26426), (37, 26462), (89, 26657), (104, 26723), (105, 26726), (112, 26759), (113, 26762), (114, 26771), (118, 26789), (129, 26831), (134, 26849), (148, 26912),

(155, 26936), (159, 26966), (165, 26978), (169, 27002), (180, 27047), (199, 27122), (243, 27260), (244, 27263), (252, 27296), (280, 27395), (313, 27536), (318, 27551), (323, 27572), (325, 27578),

Gene: Piglet\_0028 Start: 26227, Stop: 27660, Start Num: 25

Candidate Starts for Piglet\_0028:

(Start: 25 @26227 has 339 MA's), (35, 26284), (40, 26308), (45, 26332), (61, 26407), (101, 26623), (108, 26650), (110, 26659), (114, 26680), (119, 26701), (121, 26710), (133, 26773), (153, 26866), (163, 26923), (166, 26941), (198, 27073), (210, 27121), (219, 27163), (220, 27169), (221, 27172), (228, 27211), (235, 27244), (236, 27250), (239, 27259), (242, 27274), (253, 27319), (277, 27424), (287, 27460), (302, 27520), (304, 27529), (316, 27598),

Gene: Pine5\_28 Start: 25851, Stop: 27155, Start Num: 26

Candidate Starts for Pine5\_28:

(Start: 26 @25851 has 105 MA's), (81, 26121), (83, 26124), (89, 26166), (97, 26202), (107, 26244), (114, 26280), (117, 26289), (118, 26298), (137, 26391), (142, 26403), (145, 26427), (147, 26436), (151, 26448), (217, 26706), (245, 26808), (246, 26811), (282, 26949), (309, 27048), (315, 27087),

Gene: PinheadLarry\_29 Start: 25941, Stop: 27374, Start Num: 25

Candidate Starts for PinheadLarry\_29:

(Start: 25 @25941 has 339 MA's), (35, 25998), (40, 26022), (45, 26046), (61, 26121), (101, 26337), (108, 26364), (110, 26373), (114, 26394), (119, 26415), (121, 26424), (133, 26487), (153, 26580), (154, 26583), (163, 26637), (166, 26655), (198, 26787), (210, 26835), (219, 26877), (220, 26883), (221, 26886), (228, 26925), (230, 26943), (235, 26958), (236, 26964), (239, 26973), (242, 26988), (253, 27033), (277, 27138), (287, 27174), (302, 27234), (304, 27243), (309, 27270), (316, 27312),

Gene: Pinkman\_28 Start: 25784, Stop: 27217, Start Num: 25

Candidate Starts for Pinkman\_28:

(Start: 25 @25784 has 339 MA's), (35, 25841), (40, 25865), (45, 25889), (61, 25964), (108, 26207), (110, 26216), (114, 26237), (119, 26258), (121, 26267), (133, 26330), (153, 26423), (154, 26426), (163, 26480), (166, 26498), (198, 26630), (210, 26678), (219, 26720), (220, 26726), (221, 26729), (228, 26768), (230, 26786), (235, 26801), (236, 26807), (239, 26816), (242, 26831), (253, 26876), (277, 26981), (287, 27017), (302, 27077), (304, 27086), (309, 27113), (316, 27155), (321, 27176),

Gene: Pipefish\_30 Start: 27538, Stop: 28968, Start Num: 26

Candidate Starts for Pipefish\_30:

(Start: 19 @27511 has 1 MA's), (22, 27529), (Start: 26 @27538 has 105 MA's), (31, 27562), (35, 27595), (40, 27619), (41, 27628), (61, 27715), (89, 27865), (93, 27892), (110, 27967), (117, 27997), (121, 28018), (123, 28036), (136, 28090), (143, 28123), (145, 28141), (167, 28252), (184, 28330), (186, 28342), (193, 28363), (197, 28378), (202, 28390), (219, 28471), (220, 28477), (230, 28537), (241, 28579), (247, 28597), (254, 28630), (265, 28678), (279, 28738), (283, 28753), (287, 28768), (288, 28771), (303, 28834), (316, 28906), (322, 28936),

Gene: Pipsqueak\_29 Start: 26226, Stop: 27659, Start Num: 25

Candidate Starts for Pipsqueak\_29:

(Start: 25 @26226 has 339 MA's), (35, 26283), (40, 26307), (45, 26331), (61, 26406), (101, 26622), (108, 26649), (110, 26658), (114, 26679), (119, 26700), (121, 26709), (133, 26772), (153, 26865), (163, 26922), (166, 26940), (198, 27072), (210, 27120), (219, 27162), (220, 27168), (221, 27171), (228, 27210), (235, 27243), (236, 27249), (239, 27258), (242, 27273), (253, 27318), (277, 27423), (287, 27459), (302, 27519), (304, 27528), (316, 27597),

Gene: Placalicious\_28 Start: 25919, Stop: 27352, Start Num: 25

Candidate Starts for Placalicious\_28:

(Start: 25 @25919 has 339 MA's), (35, 25976), (40, 26000), (45, 26024), (61, 26099), (101, 26315), (108, 26342), (110, 26351), (114, 26372), (119, 26393), (121, 26402), (133, 26465), (153, 26558), (163, 26615), (166, 26633), (198, 26765), (210, 26813), (219, 26855), (220, 26861), (221, 26864), (228, 26903), (235, 26936), (236, 26942), (239, 26951), (242, 26966), (253, 27011), (277, 27116), (287, 27152), (302, 27212), (304, 27221), (316, 27290),

Gene: Plata\_28 Start: 25940, Stop: 27373, Start Num: 25

Candidate Starts for Plata\_28:

(Start: 25 @25940 has 339 MA's), (35, 25997), (40, 26021), (45, 26045), (61, 26120), (101, 26336), (108, 26363), (110, 26372), (114, 26393), (119, 26414), (121, 26423), (133, 26486), (153, 26579), (163, 26636), (166, 26654), (198, 26786), (210, 26834), (219, 26876), (220, 26882), (221, 26885), (228, 26924), (230, 26942), (235, 26957), (236, 26963), (239, 26972), (242, 26987), (253, 27032), (277, 27137), (287, 27173), (302, 27233), (304, 27242), (316, 27311),

Gene: Plmatters\_29 Start: 26224, Stop: 27657, Start Num: 25

Candidate Starts for Plmatters\_29:

(Start: 25 @26224 has 339 MA's), (35, 26281), (40, 26305), (45, 26329), (61, 26404), (101, 26620), (108, 26647), (110, 26656), (114, 26677), (119, 26698), (121, 26707), (133, 26770), (153, 26863), (163, 26920), (166, 26938), (198, 27070), (210, 27118), (219, 27160), (220, 27166), (221, 27169), (228, 27208), (235, 27241), (236, 27247), (239, 27256), (242, 27271), (253, 27316), (277, 27421), (287, 27457), (302, 27517), (304, 27526), (316, 27595),

Gene: Podrick\_29 Start: 26216, Stop: 27649, Start Num: 25

Candidate Starts for Podrick\_29:

(Start: 25 @26216 has 339 MA's), (35, 26273), (40, 26297), (45, 26321), (61, 26396), (101, 26612), (108, 26639), (110, 26648), (114, 26669), (119, 26690), (121, 26699), (133, 26762), (153, 26855), (163, 26912), (166, 26930), (198, 27062), (210, 27110), (219, 27152), (220, 27158), (221, 27161), (228, 27200), (235, 27233), (236, 27239), (239, 27248), (242, 27263), (253, 27308), (277, 27413), (287, 27449), (302, 27509), (304, 27518), (316, 27587),

Gene: Pointis\_37 Start: 26434, Stop: 27642, Start Num: 27

Candidate Starts for Pointis\_37:

(Start: 27 @26434 has 38 MA's), (32, 26464), (37, 26500), (89, 26695), (104, 26761), (105, 26764), (112, 26797), (113, 26800), (114, 26809), (118, 26827), (129, 26869), (134, 26887), (148, 26950), (155, 26974), (159, 27004), (165, 27016), (169, 27040), (180, 27085), (190, 27133), (199, 27160), (243, 27298), (244, 27301), (252, 27334), (280, 27433), (295, 27493), (313, 27574), (318, 27589), (323, 27610), (325, 27616),

Gene: Pops\_29 Start: 26236, Stop: 27669, Start Num: 25

Candidate Starts for Pops\_29:

(Start: 25 @26236 has 339 MA's), (35, 26293), (40, 26317), (45, 26341), (61, 26416), (101, 26632), (108, 26659), (110, 26668), (114, 26689), (119, 26710), (121, 26719), (133, 26782), (153, 26875), (163, 26932), (166, 26950), (198, 27082), (210, 27130), (219, 27172), (220, 27178), (228, 27220), (230, 27238), (235, 27253), (236, 27259), (239, 27268), (242, 27283), (253, 27328), (277, 27433), (287, 27469), (302, 27529), (304, 27538), (316, 27607),

Gene: Popstraw\_35 Start: 26220, Stop: 27428, Start Num: 27

Candidate Starts for Popstraw\_35:

(Start: 27 @26220 has 38 MA's), (32, 26250), (37, 26286), (89, 26481), (104, 26547), (105, 26550), (112, 26583), (113, 26586), (114, 26595), (118, 26613), (129, 26655), (134, 26673), (148, 26736), (155, 26760), (159, 26790), (165, 26802), (169, 26826), (180, 26871), (199, 26946), (243, 27084), (244, 27087), (252, 27120), (280, 27219), (295, 27279), (313, 27360), (318, 27375), (323, 27396), (325, 27402),

Gene: Poster\_25 Start: 25433, Stop: 26866, Start Num: 25

Candidate Starts for Poster\_25:

(Start: 25 @25433 has 339 MA's), (32, 25466), (35, 25490), (36, 25493), (41, 25523), (50, 25562), (51, 25565), (53, 25571), (61, 25613), (70, 25646), (77, 25688), (79, 25715), (101, 25829), (109, 25862), (110, 25865), (111, 25871), (119, 25907), (121, 25916), (131, 25967), (139, 26009), (156, 26084), (160, 26120), (165, 26138), (166, 26147), (167, 26150), (171, 26171), (184, 26228), (186, 26240), (200, 26282), (202, 26288), (219, 26369), (220, 26375), (223, 26399), (228, 26417), (235, 26450), (239, 26465), (241, 26477), (254, 26528), (258, 26540), (286, 26663), (287, 26666), (303, 26732), (307, 26753), (315, 26801), (324, 26840), (328, 26861),

Gene: Potter\_28 Start: 25940, Stop: 27373, Start Num: 25

Candidate Starts for Potter\_28:

(Start: 25 @25940 has 339 MA's), (35, 25997), (40, 26021), (45, 26045), (61, 26120), (101, 26336), (108, 26363), (110, 26372), (114, 26393), (119, 26414), (121, 26423), (133, 26486), (153, 26579), (163, 26636), (166, 26654), (198, 26786), (210, 26834), (219, 26876), (220, 26882), (221, 26885), (228, 26924), (235, 26957), (236, 26963), (239, 26972), (242, 26987), (253, 27032), (277, 27137), (287, 27173), (302, 27233), (304, 27242), (316, 27311),

Gene: Prickles\_29 Start: 26216, Stop: 27649, Start Num: 25

Candidate Starts for Prickles\_29:

(Start: 25 @26216 has 339 MA's), (35, 26273), (40, 26297), (45, 26321), (61, 26396), (101, 26612), (108, 26639), (110, 26648), (114, 26669), (119, 26690), (121, 26699), (133, 26762), (153, 26855), (163, 26912), (166, 26930), (198, 27062), (210, 27110), (219, 27152), (220, 27158), (221, 27161), (228, 27200), (235, 27233), (236, 27239), (239, 27248), (242, 27263), (253, 27308), (277, 27413), (287, 27449), (302, 27509), (304, 27518), (316, 27587),

Gene: Prince\_26 Start: 26616, Stop: 28049, Start Num: 25

Candidate Starts for Prince\_26:

(Start: 25 @26616 has 339 MA's), (32, 26649), (35, 26673), (36, 26676), (41, 26706), (51, 26748), (53, 26754), (61, 26796), (70, 26829), (77, 26871), (79, 26898), (101, 27012), (109, 27045), (110, 27048), (111, 27054), (119, 27090), (121, 27099), (131, 27150), (139, 27192), (160, 27303), (166, 27330), (167, 27333), (171, 27354), (184, 27411), (186, 27423), (200, 27465), (202, 27471), (219, 27552), (220, 27558), (223, 27582), (228, 27600), (235, 27633), (239, 27648), (241, 27660), (254, 27711), (258, 27723), (286, 27846), (287, 27849), (303, 27915), (307, 27936), (315, 27984), (324, 28023), (328, 28044),

Gene: PrinceCharming\_30 Start: 27593, Stop: 29029, Start Num: 26

Candidate Starts for PrinceCharming\_30:

(Start: 26 @27593 has 105 MA's), (32, 27626), (35, 27650), (36, 27653), (40, 27674), (44, 27695), (51, 27728), (60, 27773), (63, 27782), (77, 27845), (109, 28025), (110, 28028), (114, 28049), (120, 28073), (121, 28079), (123, 28097), (130, 28127), (131, 28130), (134, 28145), (136, 28151), (150, 28220), (158, 28274), (163, 28292), (166, 28310), (167, 28313), (172, 28337), (184, 28391), (195, 28430), (201, 28448), (206, 28469), (218, 28526), (219, 28532), (221, 28541), (230, 28598), (244, 28649), (247, 28658), (254, 28691), (257, 28700), (271, 28766), (282, 28808), (287, 28829), (290, 28841), (292, 28859), (304, 28898), (315, 28964), (316, 28967), (322, 28997),

Gene: ProfessorX\_29 Start: 26211, Stop: 27644, Start Num: 25

Candidate Starts for ProfessorX\_29:

(Start: 25 @26211 has 339 MA's), (35, 26268), (40, 26292), (45, 26316), (61, 26391), (101, 26607), (108, 26634), (110, 26643), (114, 26664), (119, 26685), (121, 26694), (133, 26757), (153, 26850), (163, 26907), (166, 26925), (198, 27057), (210, 27105), (219, 27147), (220, 27153), (221, 27156), (228, 27195), (235, 27228), (236, 27234), (239, 27243), (242, 27258), (253, 27303), (277, 27408),

(287, 27444), (302, 27504), (304, 27513), (316, 27582),

Gene: Puhltonio\_29 Start: 26231, Stop: 27664, Start Num: 25

Candidate Starts for Puhltonio\_29:

(Start: 25 @26231 has 339 MA's), (35, 26288), (40, 26312), (45, 26336), (61, 26411), (101, 26627), (108, 26654), (110, 26663), (114, 26684), (119, 26705), (121, 26714), (133, 26777), (153, 26870), (163, 26927), (166, 26945), (198, 27077), (210, 27125), (219, 27167), (220, 27173), (221, 27176), (228, 27215), (235, 27248), (236, 27254), (239, 27263), (242, 27278), (253, 27323), (277, 27428), (287, 27464), (302, 27524), (304, 27533), (316, 27602),

Gene: Pureglobe5\_39 Start: 26617, Stop: 27825, Start Num: 27

Candidate Starts for Pureglobe5\_39:

(Start: 27 @26617 has 38 MA's), (32, 26647), (37, 26683), (89, 26878), (104, 26944), (105, 26947), (112, 26980), (113, 26983), (114, 26992), (118, 27010), (129, 27052), (134, 27070), (148, 27133), (155, 27157), (159, 27187), (165, 27199), (169, 27223), (180, 27268), (190, 27316), (199, 27343), (243, 27481), (244, 27484), (252, 27517), (280, 27616), (295, 27676), (313, 27757), (318, 27772), (323, 27793), (325, 27799),

Gene: Purplicious\_56 Start: 35418, Stop: 36704, Start Num: 26

Candidate Starts for Purplicious\_56:

(Start: 26 @35418 has 105 MA's), (29, 35436), (83, 35655), (89, 35697), (118, 35829), (130, 35889), (140, 35931), (179, 36117), (192, 36174), (244, 36351), (257, 36402), (272, 36459), (273, 36462), (281, 36492), (284, 36507), (295, 36549), (300, 36564), (327, 36690),

Gene: QueenBeane\_29 Start: 26222, Stop: 27655, Start Num: 25

Candidate Starts for QueenBeane\_29:

(Start: 25 @26222 has 339 MA's), (35, 26279), (40, 26303), (45, 26327), (61, 26402), (101, 26618), (108, 26645), (110, 26654), (114, 26675), (119, 26696), (121, 26705), (133, 26768), (153, 26861), (163, 26918), (166, 26936), (198, 27068), (210, 27116), (219, 27158), (220, 27164), (221, 27167), (228, 27206), (235, 27239), (236, 27245), (239, 27254), (242, 27269), (253, 27314), (277, 27419), (287, 27455), (302, 27515), (304, 27524), (316, 27593),

Gene: QueenPie\_25 Start: 26557, Stop: 27990, Start Num: 25

Candidate Starts for QueenPie\_25:

(Start: 25 @26557 has 339 MA's), (32, 26590), (35, 26614), (36, 26617), (41, 26647), (51, 26689), (53, 26695), (61, 26737), (70, 26770), (77, 26812), (101, 26953), (109, 26986), (110, 26989), (111, 26995), (119, 27031), (121, 27040), (131, 27091), (139, 27133), (160, 27244), (166, 27271), (167, 27274), (171, 27295), (184, 27352), (186, 27364), (200, 27406), (202, 27412), (219, 27493), (220, 27499), (223, 27523), (228, 27541), (235, 27574), (239, 27589), (241, 27601), (254, 27652), (258, 27664), (286, 27787), (287, 27790), (303, 27856), (307, 27877), (315, 27925), (324, 27964), (328, 27985),

Gene: Quesadilla\_29 Start: 28309, Stop: 29742, Start Num: 25

Candidate Starts for Quesadilla\_29:

(Start: 25 @28309 has 339 MA's), (32, 28342), (35, 28366), (36, 28369), (40, 28390), (50, 28438), (57, 28465), (61, 28489), (100, 28699), (101, 28705), (110, 28741), (111, 28747), (119, 28783), (121, 28792), (136, 28864), (153, 28948), (163, 29005), (167, 29026), (183, 29095), (200, 29158), (202, 29164), (205, 29179), (219, 29245), (220, 29251), (227, 29290), (228, 29293), (239, 29341), (240, 29344), (241, 29353), (256, 29410), (258, 29416), (262, 29431), (315, 29677),

Gene: Quisquilliae\_29 Start: 26250, Stop: 27683, Start Num: 25

Candidate Starts for Quisquilliae\_29:

(Start: 25 @26250 has 339 MA's), (35, 26307), (40, 26331), (45, 26355), (61, 26430), (101, 26646), (108, 26673), (110, 26682), (114, 26703), (119, 26724), (121, 26733), (133, 26796), (153, 26889),

(163, 26946), (166, 26964), (198, 27096), (210, 27144), (219, 27186), (220, 27192), (221, 27195), (228, 27234), (235, 27267), (236, 27273), (239, 27282), (242, 27297), (253, 27342), (277, 27447), (287, 27483), (302, 27543), (304, 27552), (316, 27621),

Gene: Qyrzula\_28 Start: 27571, Stop: 29007, Start Num: 26

Candidate Starts for Qyrzula\_28:

(Start: 26 @27571 has 105 MA's), (32, 27604), (35, 27628), (36, 27631), (40, 27652), (44, 27673), (51, 27706), (60, 27751), (63, 27760), (77, 27823), (109, 28003), (110, 28006), (114, 28027), (120, 28051), (121, 28057), (123, 28075), (130, 28105), (131, 28108), (134, 28123), (136, 28129), (150, 28198), (158, 28252), (163, 28270), (166, 28288), (167, 28291), (172, 28315), (184, 28369), (195, 28408), (201, 28426), (206, 28447), (218, 28504), (219, 28510), (221, 28519), (230, 28576), (244, 28627), (247, 28636), (254, 28669), (257, 28678), (271, 28744), (282, 28786), (287, 28807), (290, 28819), (292, 28837), (304, 28876), (315, 28942), (316, 28945), (322, 28975),

Gene: RIPWilbur\_35 Start: 25750, Stop: 26958, Start Num: 27

Candidate Starts for RIPWilbur\_35:

(Start: 27 @25750 has 38 MA's), (32, 25780), (37, 25816), (89, 26011), (104, 26077), (105, 26080), (112, 26113), (113, 26116), (114, 26125), (118, 26143), (129, 26185), (134, 26203), (148, 26266), (155, 26290), (159, 26320), (165, 26332), (169, 26356), (180, 26401), (190, 26449), (199, 26476), (243, 26614), (244, 26617), (252, 26650), (280, 26749), (295, 26809), (313, 26890), (318, 26905), (323, 26926),

Gene: RagingRooster\_29 Start: 26147, Stop: 27577, Start Num: 26

Candidate Starts for RagingRooster\_29:

(Start: 26 @26147 has 105 MA's), (35, 26204), (40, 26228), (41, 26237), (61, 26324), (89, 26474), (93, 26501), (110, 26576), (117, 26606), (121, 26627), (123, 26645), (136, 26699), (143, 26732), (167, 26861), (184, 26939), (186, 26951), (193, 26972), (197, 26987), (202, 26999), (219, 27080), (220, 27086), (229, 27134), (230, 27146), (241, 27188), (247, 27206), (254, 27239), (265, 27287), (279, 27347), (283, 27362), (287, 27377), (288, 27380), (303, 27443), (316, 27515), (322, 27545),

Gene: RainyPolka\_22 Start: 20723, Stop: 22063, Start Num: 27

Candidate Starts for RainyPolka\_22:

(5, 20513), (6, 20552), (8, 20576), (11, 20636), (20, 20702), (Start: 27 @20723 has 38 MA's), (39, 20798), (65, 20885), (69, 20897), (71, 20900), (84, 20972), (92, 21020), (103, 21071), (104, 21074), (127, 21188), (134, 21215), (145, 21272), (165, 21356), (168, 21371), (176, 21410), (231, 21563), (232, 21566), (238, 21590), (247, 21620), (276, 21731), (297, 21821), (310, 21878), (311, 21881), (324, 21947), (332, 22028),

Gene: Ranunculus\_31 Start: 25649, Stop: 26857, Start Num: 27

Candidate Starts for Ranunculus\_31:

(Start: 27 @25649 has 38 MA's), (30, 25667), (84, 25877), (104, 25979), (112, 26015), (118, 26045), (129, 26087), (134, 26105), (141, 26132), (155, 26192), (169, 26261), (176, 26291), (199, 26381), (252, 26555), (280, 26648), (295, 26708), (313, 26789), (318, 26804), (322, 26822), (324, 26828),

Gene: RawrgerThat\_26 Start: 26459, Stop: 27892, Start Num: 25

Candidate Starts for RawrgerThat\_26:

(Start: 25 @26459 has 339 MA's), (32, 26492), (35, 26516), (36, 26519), (41, 26549), (51, 26591), (53, 26597), (61, 26639), (70, 26672), (77, 26714), (91, 26801), (101, 26855), (110, 26891), (111, 26897), (119, 26933), (121, 26942), (131, 26993), (139, 27035), (160, 27146), (165, 27164), (166, 27173), (167, 27176), (171, 27197), (184, 27254), (186, 27266), (200, 27308), (202, 27314), (219, 27395), (220, 27401), (223, 27425), (228, 27443), (235, 27476), (239, 27491), (241, 27503), (258, 27566), (287, 27692), (303, 27758), (307, 27779), (315, 27827), (324, 27866), (328, 27887),

Gene: RazzB\_33 Start: 24898, Stop: 26106, Start Num: 27

Candidate Starts for RazzB\_33:

(Start: 27 @24898 has 38 MA's), (32, 24928), (37, 24964), (40, 24976), (52, 25009), (89, 25159), (104, 25225), (105, 25228), (112, 25261), (113, 25264), (114, 25273), (118, 25291), (129, 25333), (134, 25351), (148, 25414), (155, 25438), (159, 25468), (165, 25480), (169, 25504), (180, 25549), (190, 25597), (199, 25624), (243, 25762), (244, 25765), (252, 25798), (280, 25897), (295, 25957), (313, 26038), (318, 26053), (323, 26074), (325, 26080),

Gene: Reccee\_28 Start: 26641, Stop: 28074, Start Num: 25

Candidate Starts for Reccee\_28:

(Start: 25 @26641 has 339 MA's), (43, 26737), (44, 26743), (56, 26794), (76, 26893), (79, 26923), (92, 26986), (110, 27073), (111, 27079), (119, 27115), (121, 27124), (131, 27175), (165, 27346), (167, 27358), (184, 27436), (202, 27496), (206, 27514), (219, 27577), (244, 27694), (246, 27700), (279, 27844), (290, 27886), (322, 28042), (324, 28048),

Gene: RedMaple\_28 Start: 26226, Stop: 27659, Start Num: 25

Candidate Starts for RedMaple\_28:

(Start: 25 @26226 has 339 MA's), (35, 26283), (40, 26307), (45, 26331), (61, 26406), (101, 26622), (108, 26649), (110, 26658), (114, 26679), (119, 26700), (121, 26709), (133, 26772), (153, 26865), (163, 26922), (166, 26940), (198, 27072), (210, 27120), (219, 27162), (220, 27168), (221, 27171), (228, 27210), (235, 27243), (236, 27249), (239, 27258), (242, 27273), (253, 27318), (277, 27423), (287, 27459), (302, 27519), (304, 27528), (316, 27597),

Gene: RedRaider89\_30 Start: 26449, Stop: 27882, Start Num: 25

Candidate Starts for RedRaider89\_30:

(Start: 25 @26449 has 339 MA's), (35, 26506), (40, 26530), (45, 26554), (61, 26629), (101, 26845), (108, 26872), (110, 26881), (114, 26902), (119, 26923), (121, 26932), (133, 26995), (153, 27088), (163, 27145), (166, 27163), (198, 27295), (210, 27343), (219, 27385), (220, 27391), (221, 27394), (228, 27433), (235, 27466), (236, 27472), (239, 27481), (242, 27496), (253, 27541), (277, 27646), (287, 27682), (302, 27742), (304, 27751), (316, 27820),

Gene: Ren19\_30 Start: 25401, Stop: 26615, Start Num: 27

Candidate Starts for Ren19\_30:

(Start: 27 @25401 has 38 MA's), (30, 25419), (32, 25431), (37, 25467), (41, 25488), (43, 25494), (49, 25515), (88, 25662), (89, 25668), (104, 25734), (112, 25770), (113, 25773), (129, 25842), (148, 25923), (157, 25971), (159, 25977), (161, 25980), (169, 26013), (199, 26133), (243, 26271), (244, 26274), (249, 26289), (252, 26307), (255, 26316), (313, 26547), (318, 26562), (322, 26580), (325, 26589),

Gene: Renkei\_25 Start: 25464, Stop: 26897, Start Num: 25

Candidate Starts for Renkei\_25:

(Start: 25 @25464 has 339 MA's), (32, 25497), (35, 25521), (36, 25524), (41, 25554), (51, 25596), (53, 25602), (61, 25644), (70, 25677), (77, 25719), (101, 25860), (109, 25893), (110, 25896), (111, 25902), (119, 25938), (121, 25947), (131, 25998), (139, 26040), (156, 26115), (160, 26151), (165, 26169), (166, 26178), (167, 26181), (171, 26202), (184, 26259), (186, 26271), (200, 26313), (202, 26319), (219, 26400), (220, 26406), (223, 26430), (228, 26448), (235, 26481), (239, 26496), (241, 26508), (254, 26559), (258, 26571), (286, 26694), (287, 26697), (303, 26763), (307, 26784), (315, 26832), (324, 26871), (328, 26892),

Gene: Reprobate\_28 Start: 26715, Stop: 28148, Start Num: 26

Candidate Starts for Reprobate\_28:

(Start: 26 @26715 has 105 MA's), (44, 26817), (56, 26868), (67, 26916), (76, 26967), (79, 26997), (110, 27147), (111, 27153), (119, 27189), (121, 27198), (163, 27411), (184, 27510), (186, 27522),

(189, 27528), (202, 27570), (205, 27585), (206, 27588), (219, 27651), (227, 27696), (241, 27759), (244, 27768), (246, 27774), (256, 27816), (258, 27822), (293, 27981), (304, 28017), (322, 28116), (324, 28122),

Gene: Rhinoforte\_30 Start: 27596, Stop: 29032, Start Num: 26

Candidate Starts for Rhinoforte\_30:

(Start: 26 @27596 has 105 MA's), (32, 27629), (35, 27653), (36, 27656), (40, 27677), (44, 27698), (51, 27731), (60, 27776), (77, 27848), (109, 28028), (110, 28031), (114, 28052), (120, 28076), (121, 28082), (123, 28100), (130, 28130), (131, 28133), (134, 28148), (136, 28154), (150, 28223), (158, 28277), (163, 28295), (166, 28313), (167, 28316), (172, 28340), (184, 28394), (195, 28433), (201, 28451), (206, 28472), (218, 28529), (219, 28535), (221, 28544), (230, 28601), (244, 28652), (247, 28661), (254, 28694), (257, 28703), (271, 28769), (282, 28811), (287, 28832), (290, 28844), (292, 28862), (304, 28901), (315, 28967), (316, 28970), (322, 29000),

Gene: Rich\_27 Start: 26202, Stop: 27635, Start Num: 25

Candidate Starts for Rich\_27:

(Start: 25 @26202 has 339 MA's), (43, 26298), (44, 26304), (76, 26454), (79, 26484), (96, 26574), (110, 26634), (111, 26640), (121, 26685), (131, 26736), (167, 26919), (168, 26922), (184, 26997), (189, 27015), (202, 27057), (219, 27138), (241, 27246), (244, 27255), (246, 27261), (290, 27447), (293, 27468), (322, 27603), (324, 27609),

Gene: Ricotta\_28 Start: 25949, Stop: 27382, Start Num: 25

Candidate Starts for Ricotta\_28:

(Start: 25 @25949 has 339 MA's), (35, 26006), (40, 26030), (45, 26054), (61, 26129), (101, 26345), (108, 26372), (110, 26381), (114, 26402), (119, 26423), (121, 26432), (133, 26495), (153, 26588), (163, 26645), (166, 26663), (198, 26795), (210, 26843), (219, 26885), (220, 26891), (221, 26894), (228, 26933), (235, 26966), (236, 26972), (239, 26981), (242, 26996), (253, 27041), (277, 27146), (287, 27182), (302, 27242), (304, 27251), (316, 27320),

Gene: Riggan\_29 Start: 26208, Stop: 27641, Start Num: 25

Candidate Starts for Riggan\_29:

(Start: 25 @26208 has 339 MA's), (35, 26265), (40, 26289), (45, 26313), (61, 26388), (101, 26604), (108, 26631), (110, 26640), (114, 26661), (119, 26682), (121, 26691), (133, 26754), (153, 26847), (163, 26904), (166, 26922), (198, 27054), (210, 27102), (219, 27144), (220, 27150), (221, 27153), (228, 27192), (235, 27225), (236, 27231), (239, 27240), (242, 27255), (253, 27300), (277, 27405), (287, 27441), (302, 27501), (304, 27510), (316, 27579),

Gene: Rimu\_29 Start: 25957, Stop: 27390, Start Num: 25

Candidate Starts for Rimu\_29:

(Start: 25 @25957 has 339 MA's), (35, 26014), (40, 26038), (45, 26062), (61, 26137), (108, 26380), (110, 26389), (114, 26410), (119, 26431), (121, 26440), (133, 26503), (153, 26596), (154, 26599), (163, 26653), (166, 26671), (198, 26803), (210, 26851), (219, 26893), (220, 26899), (221, 26902), (228, 26941), (230, 26959), (235, 26974), (236, 26980), (239, 26989), (242, 27004), (253, 27049), (277, 27154), (287, 27190), (302, 27250), (304, 27259), (309, 27286), (316, 27328), (321, 27349),

Gene: Rinke\_31 Start: 28822, Stop: 30255, Start Num: 25

Candidate Starts for Rinke\_31:

(Start: 25 @28822 has 339 MA's), (35, 28879), (40, 28903), (45, 28927), (56, 28975), (59, 28987), (61, 29002), (68, 29026), (101, 29218), (109, 29251), (110, 29254), (111, 29260), (114, 29275), (119, 29296), (121, 29305), (131, 29356), (154, 29464), (162, 29515), (163, 29518), (167, 29539), (183, 29608), (184, 29617), (186, 29629), (189, 29635), (200, 29671), (202, 29677), (203, 29680), (214, 29734), (219, 29758), (223, 29788), (227, 29803), (228, 29806), (236, 29845), (239, 29854), (244, 29875), (256, 29923), (264, 29959), (265, 29965), (279, 30025), (290, 30067), (304, 30124), (322,

30223), (324, 30229), (325, 30232),

Gene: Rita130\_28 Start: 26461, Stop: 27894, Start Num: 25

Candidate Starts for Rita130\_28:

(Start: 25 @26461 has 339 MA's), (43, 26557), (44, 26563), (56, 26614), (76, 26713), (79, 26743), (92, 26806), (110, 26893), (111, 26899), (119, 26935), (121, 26944), (131, 26995), (165, 27166), (167, 27178), (184, 27256), (202, 27316), (206, 27334), (219, 27397), (244, 27514), (246, 27520), (279, 27664), (290, 27706), (322, 27862), (324, 27868),

Gene: Rita1961\_29 Start: 26133, Stop: 27563, Start Num: 26

Candidate Starts for Rita1961\_29:

(Start: 26 @26133 has 105 MA's), (35, 26190), (40, 26214), (41, 26223), (61, 26310), (89, 26460), (93, 26487), (110, 26562), (117, 26592), (121, 26613), (123, 26631), (136, 26685), (143, 26718), (167, 26847), (184, 26925), (186, 26937), (193, 26958), (197, 26973), (202, 26985), (219, 27066), (220, 27072), (230, 27132), (241, 27174), (247, 27192), (254, 27225), (265, 27273), (279, 27333), (283, 27348), (287, 27363), (288, 27366), (316, 27501), (322, 27531),

Gene: Riverton\_29 Start: 26226, Stop: 27659, Start Num: 25

Candidate Starts for Riverton\_29:

(Start: 25 @26226 has 339 MA's), (35, 26283), (40, 26307), (45, 26331), (61, 26406), (101, 26622), (108, 26649), (110, 26658), (114, 26679), (119, 26700), (121, 26709), (133, 26772), (153, 26865), (163, 26922), (166, 26940), (198, 27072), (210, 27120), (219, 27162), (220, 27168), (221, 27171), (228, 27210), (235, 27243), (236, 27249), (239, 27258), (242, 27273), (253, 27318), (277, 27423), (287, 27459), (302, 27519), (304, 27528), (316, 27597),

Gene: Rizwana\_30 Start: 25243, Stop: 26460, Start Num: 27

Candidate Starts for Rizwana\_30:

(Start: 27 @25243 has 38 MA's), (34, 25279), (42, 25333), (88, 25501), (91, 25516), (104, 25573), (105, 25576), (107, 25585), (112, 25609), (118, 25639), (134, 25702), (165, 25831), (191, 25951), (239, 26095), (243, 26113), (267, 26194), (280, 26251), (281, 26254), (290, 26287), (311, 26368), (313, 26392), (318, 26407),

Gene: Robyn\_28 Start: 25790, Stop: 27223, Start Num: 25

Candidate Starts for Robyn\_28:

(Start: 25 @25790 has 339 MA's), (35, 25847), (40, 25871), (45, 25895), (61, 25970), (101, 26186), (108, 26213), (110, 26222), (114, 26243), (119, 26264), (121, 26273), (133, 26336), (153, 26429), (163, 26486), (166, 26504), (198, 26636), (210, 26684), (219, 26726), (220, 26732), (221, 26735), (228, 26774), (235, 26807), (236, 26813), (239, 26822), (242, 26837), (253, 26882), (277, 26987), (287, 27023), (302, 27083), (304, 27092), (316, 27161),

Gene: Roliet\_29 Start: 26218, Stop: 27651, Start Num: 25

Candidate Starts for Roliet\_29:

(Start: 25 @26218 has 339 MA's), (35, 26275), (40, 26299), (45, 26323), (61, 26398), (101, 26614), (108, 26641), (110, 26650), (114, 26671), (119, 26692), (121, 26701), (133, 26764), (153, 26857), (163, 26914), (166, 26932), (198, 27064), (210, 27112), (219, 27154), (220, 27160), (221, 27163), (228, 27202), (230, 27220), (235, 27235), (236, 27241), (239, 27250), (242, 27265), (253, 27310), (277, 27415), (287, 27451), (302, 27511), (304, 27520), (316, 27589),

Gene: RomaT\_29 Start: 26923, Stop: 28353, Start Num: 26

Candidate Starts for RomaT\_29:

(Start: 26 @26923 has 105 MA's), (35, 26980), (40, 27004), (41, 27013), (61, 27100), (89, 27250), (93, 27277), (110, 27352), (117, 27382), (121, 27403), (123, 27421), (136, 27475), (143, 27508), (145, 27526), (167, 27637), (184, 27715), (186, 27727), (193, 27748), (197, 27763), (202, 27775), (219,

27856), (220, 27862), (230, 27922), (241, 27964), (247, 27982), (254, 28015), (265, 28063), (279, 28123), (283, 28138), (287, 28153), (288, 28156), (303, 28219), (316, 28291), (322, 28321),

Gene: RomansRevenge\_28 Start: 23641, Stop: 24843, Start Num: 28

Candidate Starts for RomansRevenge\_28:

(Start: 27 @23638 has 38 MA's), (Start: 28 @23641 has 1 MA's), (30, 23656), (31, 23659), (34, 23674), (43, 23731), (52, 23758), (73, 23818), (87, 23899), (91, 23917), (94, 23935), (102, 23968), (112, 24010), (114, 24022), (143, 24136), (147, 24160), (152, 24178), (159, 24214), (165, 24220), (174, 24262), (185, 24313), (206, 24388), (220, 24427), (244, 24499), (259, 24553),

Gene: Roscoe\_30 Start: 26456, Stop: 27889, Start Num: 25

Candidate Starts for Roscoe\_30:

(Start: 25 @26456 has 339 MA's), (35, 26513), (40, 26537), (45, 26561), (61, 26636), (101, 26852), (108, 26879), (110, 26888), (114, 26909), (119, 26930), (121, 26939), (133, 27002), (153, 27095), (163, 27152), (166, 27170), (198, 27302), (210, 27350), (219, 27392), (220, 27398), (221, 27401), (228, 27440), (235, 27473), (236, 27479), (239, 27488), (242, 27503), (253, 27548), (277, 27653), (287, 27689), (302, 27749), (304, 27758), (316, 27827),

Gene: Rosebush\_30 Start: 27603, Stop: 29039, Start Num: 26

Candidate Starts for Rosebush\_30:

(Start: 26 @27603 has 105 MA's), (32, 27636), (35, 27660), (36, 27663), (40, 27684), (44, 27705), (51, 27738), (60, 27783), (63, 27792), (77, 27855), (109, 28035), (110, 28038), (114, 28059), (120, 28083), (121, 28089), (123, 28107), (130, 28137), (131, 28140), (134, 28155), (136, 28161), (150, 28230), (158, 28284), (163, 28302), (166, 28320), (167, 28323), (172, 28347), (184, 28401), (195, 28440), (201, 28458), (206, 28479), (218, 28536), (219, 28542), (221, 28551), (230, 28608), (244, 28659), (247, 28668), (254, 28701), (257, 28710), (271, 28776), (282, 28818), (287, 28839), (290, 28851), (292, 28869), (304, 28908), (315, 28974), (316, 28977), (322, 29007),

Gene: Roy17\_29 Start: 25922, Stop: 27355, Start Num: 25

Candidate Starts for Roy17\_29:

(Start: 25 @25922 has 339 MA's), (35, 25979), (40, 26003), (45, 26027), (61, 26102), (101, 26318), (108, 26345), (110, 26354), (114, 26375), (119, 26396), (121, 26405), (133, 26468), (153, 26561), (163, 26618), (166, 26636), (198, 26768), (210, 26816), (219, 26858), (220, 26864), (221, 26867), (228, 26906), (235, 26939), (236, 26945), (239, 26954), (242, 26969), (253, 27014), (277, 27119), (287, 27155), (302, 27215), (304, 27224), (316, 27293),

Gene: SDcharge11\_29 Start: 26196, Stop: 27629, Start Num: 25

Candidate Starts for SDcharge11\_29:

(Start: 25 @26196 has 339 MA's), (35, 26253), (40, 26277), (45, 26301), (61, 26376), (101, 26592), (108, 26619), (110, 26628), (114, 26649), (119, 26670), (121, 26679), (133, 26742), (153, 26835), (163, 26892), (166, 26910), (198, 27042), (210, 27090), (219, 27132), (220, 27138), (221, 27141), (228, 27180), (235, 27213), (236, 27219), (239, 27228), (242, 27243), (253, 27288), (277, 27393), (287, 27429), (302, 27489), (304, 27498), (316, 27567),

Gene: Sabella\_30 Start: 27480, Stop: 28916, Start Num: 26

Candidate Starts for Sabella\_30:

(Start: 26 @27480 has 105 MA's), (32, 27513), (35, 27537), (36, 27540), (40, 27561), (44, 27582), (51, 27615), (60, 27660), (63, 27669), (77, 27732), (109, 27912), (110, 27915), (114, 27936), (120, 27960), (121, 27966), (123, 27984), (130, 28014), (131, 28017), (134, 28032), (136, 28038), (150, 28107), (158, 28161), (163, 28179), (166, 28197), (167, 28200), (172, 28224), (184, 28278), (195, 28317), (201, 28335), (206, 28356), (218, 28413), (219, 28419), (221, 28428), (230, 28485), (244, 28536), (247, 28545), (254, 28578), (257, 28587), (271, 28653), (282, 28695), (287, 28716), (290, 28728), (292, 28746), (304, 28785), (315, 28851), (316, 28854), (322, 28884),

Gene: Saguaro\_29 Start: 28434, Stop: 29867, Start Num: 25

Candidate Starts for Saguaro\_29:

(Start: 25 @28434 has 339 MA's), (32, 28467), (36, 28494), (45, 28539), (50, 28563), (76, 28686), (100, 28824), (101, 28830), (108, 28857), (109, 28863), (110, 28866), (111, 28872), (121, 28917), (134, 28983), (153, 29073), (163, 29130), (166, 29148), (167, 29151), (183, 29220), (184, 29229), (197, 29277), (200, 29283), (202, 29289), (219, 29370), (220, 29376), (236, 29457), (239, 29466), (253, 29526), (257, 29538), (258, 29541), (304, 29736), (315, 29802), (322, 29835),

Gene: Salete\_21 Start: 20262, Stop: 21599, Start Num: 27

Candidate Starts for Salete\_21:

(3, 19857), (4, 20082), (6, 20130), (8, 20142), (Start: 27 @20262 has 38 MA's), (39, 20337), (71, 20436), (84, 20508), (89, 20544), (92, 20556), (104, 20610), (114, 20658), (127, 20724), (165, 20892), (168, 20907), (176, 20946), (178, 20955), (185, 20988), (213, 21063), (232, 21102), (238, 21126), (247, 21156), (251, 21180), (276, 21267), (297, 21357), (310, 21414), (311, 21417), (324, 21483), (332, 21564), (334, 21579),

Gene: SallyH\_29 Start: 26232, Stop: 27665, Start Num: 25

Candidate Starts for SallyH\_29:

(Start: 25 @26232 has 339 MA's), (35, 26289), (40, 26313), (45, 26337), (61, 26412), (101, 26628), (108, 26655), (110, 26664), (114, 26685), (119, 26706), (121, 26715), (133, 26778), (153, 26871), (163, 26928), (166, 26946), (198, 27078), (210, 27126), (219, 27168), (220, 27174), (221, 27177), (228, 27216), (235, 27249), (236, 27255), (239, 27264), (242, 27279), (253, 27324), (277, 27429), (287, 27465), (302, 27525), (304, 27534), (316, 27603),

Gene: Samaymay\_29 Start: 26222, Stop: 27655, Start Num: 25

Candidate Starts for Samaymay\_29:

(Start: 25 @26222 has 339 MA's), (35, 26279), (40, 26303), (45, 26327), (61, 26402), (101, 26618), (108, 26645), (110, 26654), (114, 26675), (119, 26696), (121, 26705), (133, 26768), (153, 26861), (163, 26918), (166, 26936), (198, 27068), (210, 27116), (219, 27158), (220, 27164), (221, 27167), (228, 27206), (235, 27239), (236, 27245), (239, 27254), (242, 27269), (253, 27314), (277, 27419), (287, 27455), (302, 27515), (304, 27524), (316, 27593),

Gene: SassyCat97\_28 Start: 25928, Stop: 27361, Start Num: 25

Candidate Starts for SassyCat97\_28:

(Start: 25 @25928 has 339 MA's), (35, 25985), (40, 26009), (45, 26033), (61, 26108), (101, 26324), (108, 26351), (110, 26360), (114, 26381), (119, 26402), (121, 26411), (133, 26474), (153, 26567), (163, 26624), (166, 26642), (198, 26774), (210, 26822), (219, 26864), (220, 26870), (221, 26873), (228, 26912), (235, 26945), (236, 26951), (239, 26960), (242, 26975), (253, 27020), (277, 27125), (287, 27161), (302, 27221), (304, 27230), (316, 27299),

Gene: Schadenfreude\_28 Start: 25776, Stop: 27209, Start Num: 25

Candidate Starts for Schadenfreude\_28:

(Start: 25 @25776 has 339 MA's), (35, 25833), (40, 25857), (45, 25881), (61, 25956), (101, 26172), (108, 26199), (110, 26208), (114, 26229), (119, 26250), (121, 26259), (133, 26322), (153, 26415), (163, 26472), (166, 26490), (198, 26622), (210, 26670), (219, 26712), (220, 26718), (221, 26721), (228, 26760), (235, 26793), (236, 26799), (239, 26808), (242, 26823), (253, 26868), (277, 26973), (287, 27009), (302, 27069), (304, 27078), (316, 27147),

Gene: Schueller\_28 Start: 25943, Stop: 27376, Start Num: 25

Candidate Starts for Schueller\_28:

(Start: 25 @25943 has 339 MA's), (35, 26000), (40, 26024), (45, 26048), (61, 26123), (108, 26366), (110, 26375), (114, 26396), (119, 26417), (121, 26426), (133, 26489), (153, 26582), (154, 26585),

(163, 26639), (166, 26657), (198, 26789), (210, 26837), (219, 26879), (220, 26885), (221, 26888), (228, 26927), (230, 26945), (235, 26960), (236, 26966), (239, 26975), (242, 26990), (253, 27035), (277, 27140), (287, 27176), (302, 27236), (304, 27245), (309, 27272), (316, 27314), (321, 27335),

Gene: Scoot17C\_29 Start: 26221, Stop: 27654, Start Num: 25

Candidate Starts for Scoot17C\_29:

(Start: 25 @26221 has 339 MA's), (35, 26278), (40, 26302), (45, 26326), (61, 26401), (101, 26617), (108, 26644), (110, 26653), (114, 26674), (119, 26695), (121, 26704), (133, 26767), (153, 26860), (163, 26917), (166, 26935), (198, 27067), (210, 27115), (219, 27157), (220, 27163), (221, 27166), (228, 27205), (235, 27238), (236, 27244), (239, 27253), (242, 27268), (253, 27313), (277, 27418), (287, 27454), (302, 27514), (304, 27523), (316, 27592),

Gene: Scrick\_29 Start: 25946, Stop: 27379, Start Num: 25

Candidate Starts for Scrick\_29:

(Start: 25 @25946 has 339 MA's), (35, 26003), (40, 26027), (45, 26051), (61, 26126), (101, 26342), (108, 26369), (110, 26378), (114, 26399), (119, 26420), (121, 26429), (133, 26492), (153, 26585), (163, 26642), (166, 26660), (198, 26792), (210, 26840), (219, 26882), (220, 26888), (221, 26891), (228, 26930), (235, 26963), (236, 26969), (239, 26978), (242, 26993), (253, 27038), (277, 27143), (287, 27179), (302, 27239), (304, 27248), (316, 27317),

Gene: Sejanus\_25 Start: 24460, Stop: 25887, Start Num: 26

Candidate Starts for Sejanus\_25:

(Start: 26 @24460 has 105 MA's), (32, 24493), (40, 24541), (43, 24556), (44, 24562), (53, 24604), (63, 24646), (70, 24667), (77, 24709), (108, 24877), (109, 24883), (121, 24937), (131, 24988), (134, 25003), (136, 25009), (144, 25051), (158, 25132), (163, 25150), (183, 25240), (186, 25261), (197, 25297), (200, 25303), (209, 25339), (219, 25390), (221, 25399), (222, 25417), (230, 25456), (244, 25507), (247, 25516), (254, 25549), (271, 25624), (287, 25687), (290, 25699), (316, 25825), (322, 25855),

Gene: Selr12\_29 Start: 25950, Stop: 27383, Start Num: 25

Candidate Starts for Selr12\_29:

(Start: 25 @25950 has 339 MA's), (35, 26007), (40, 26031), (45, 26055), (61, 26130), (101, 26346), (108, 26373), (110, 26382), (114, 26403), (119, 26424), (121, 26433), (133, 26496), (153, 26589), (163, 26646), (166, 26664), (198, 26796), (210, 26844), (219, 26886), (220, 26892), (221, 26895), (228, 26934), (235, 26967), (236, 26973), (239, 26982), (242, 26997), (253, 27042), (277, 27147), (287, 27183), (302, 27243), (304, 27252), (316, 27321),

Gene: Serendipitous\_27 Start: 26265, Stop: 27698, Start Num: 25

Candidate Starts for Serendipitous\_27:

(Start: 25 @26265 has 339 MA's), (44, 26367), (56, 26418), (79, 26547), (85, 26565), (110, 26697), (111, 26703), (119, 26739), (121, 26748), (131, 26799), (167, 26982), (184, 27060), (186, 27072), (202, 27120), (206, 27138), (219, 27201), (246, 27324), (290, 27510), (293, 27531), (322, 27666), (324, 27672),

Gene: Serendipity\_29 Start: 26246, Stop: 27679, Start Num: 25

Candidate Starts for Serendipity\_29:

(Start: 25 @26246 has 339 MA's), (35, 26303), (40, 26327), (45, 26351), (61, 26426), (101, 26642), (108, 26669), (110, 26678), (114, 26699), (119, 26720), (121, 26729), (133, 26792), (153, 26885), (163, 26942), (166, 26960), (198, 27092), (210, 27140), (219, 27182), (220, 27188), (221, 27191), (228, 27230), (235, 27263), (236, 27269), (239, 27278), (242, 27293), (253, 27338), (277, 27443), (287, 27479), (302, 27539), (304, 27548), (316, 27617),

Gene: Serpentine\_0029 Start: 26227, Stop: 27660, Start Num: 25

Candidate Starts for Serpentine\_0029:

(Start: 25 @26227 has 339 MA's), (35, 26284), (40, 26308), (45, 26332), (61, 26407), (101, 26623), (108, 26650), (110, 26659), (114, 26680), (119, 26701), (121, 26710), (133, 26773), (153, 26866), (163, 26923), (166, 26941), (198, 27073), (210, 27121), (219, 27163), (220, 27169), (221, 27172), (228, 27211), (235, 27244), (236, 27250), (239, 27259), (242, 27274), (253, 27319), (277, 27424), (287, 27460), (302, 27520), (304, 27529), (316, 27598),

Gene: ShadowBud\_29 Start: 26247, Stop: 27680, Start Num: 25

Candidate Starts for ShadowBud\_29:

(Start: 25 @26247 has 339 MA's), (35, 26304), (40, 26328), (45, 26352), (61, 26427), (101, 26643), (108, 26670), (110, 26679), (114, 26700), (119, 26721), (121, 26730), (133, 26793), (153, 26886), (163, 26943), (166, 26961), (198, 27093), (210, 27141), (219, 27183), (220, 27189), (221, 27192), (228, 27231), (235, 27264), (236, 27270), (239, 27279), (242, 27294), (253, 27339), (277, 27444), (287, 27480), (302, 27540), (304, 27549), (316, 27618),

Gene: Shatter\_25 Start: 23515, Stop: 25044, Start Num: 9

Candidate Starts for Shatter\_25:

(1, 22570), (2, 22669), (Start: 9 @23515 has 19 MA's), (14, 23548), (Start: 27 @23617 has 38 MA's), (30, 23635), (54, 23758), (59, 23779), (63, 23800), (110, 24043), (119, 24085), (121, 24094), (130, 24142), (165, 24316), (167, 24328), (183, 24397), (186, 24418), (218, 24541), (219, 24547), (222, 24574), (228, 24595), (235, 24628), (236, 24634), (239, 24643), (256, 24712), (263, 24742), (269, 24766), (279, 24814),

Gene: Sheila\_29 Start: 26216, Stop: 27649, Start Num: 25

Candidate Starts for Sheila\_29:

(Start: 25 @26216 has 339 MA's), (35, 26273), (40, 26297), (45, 26321), (61, 26396), (101, 26612), (108, 26639), (110, 26648), (114, 26669), (119, 26690), (121, 26699), (133, 26762), (153, 26855), (163, 26912), (166, 26930), (198, 27062), (210, 27110), (219, 27152), (220, 27158), (221, 27161), (228, 27200), (235, 27233), (236, 27239), (239, 27248), (242, 27263), (253, 27308), (277, 27413), (287, 27449), (302, 27509), (304, 27518), (316, 27587),

Gene: Shenandoah\_29 Start: 26122, Stop: 27552, Start Num: 26

Candidate Starts for Shenandoah\_29:

(Start: 26 @26122 has 105 MA's), (35, 26179), (40, 26203), (41, 26212), (61, 26299), (93, 26476), (108, 26542), (110, 26551), (117, 26581), (121, 26602), (123, 26620), (136, 26674), (167, 26836), (184, 26914), (186, 26926), (193, 26947), (197, 26962), (202, 26974), (219, 27055), (220, 27061), (229, 27109), (230, 27121), (241, 27163), (247, 27181), (254, 27214), (265, 27262), (279, 27322), (283, 27337), (287, 27352), (288, 27355), (303, 27418), (316, 27490), (322, 27520),

Gene: Shenyu\_28 Start: 26417, Stop: 27850, Start Num: 25

Candidate Starts for Shenyu\_28:

(Start: 25 @26417 has 339 MA's), (44, 26519), (76, 26669), (79, 26699), (85, 26717), (91, 26759), (110, 26849), (111, 26855), (119, 26891), (121, 26900), (135, 26969), (167, 27134), (202, 27272), (206, 27290), (219, 27353), (244, 27470), (246, 27476), (279, 27620), (290, 27662), (293, 27683), (322, 27818), (324, 27824),

Gene: ShiVal\_29 Start: 26220, Stop: 27653, Start Num: 25

Candidate Starts for ShiVal\_29:

(Start: 25 @26220 has 339 MA's), (35, 26277), (40, 26301), (45, 26325), (61, 26400), (101, 26616), (108, 26643), (110, 26652), (114, 26673), (119, 26694), (121, 26703), (133, 26766), (153, 26859), (163, 26916), (166, 26934), (198, 27066), (210, 27114), (219, 27156), (220, 27162), (221, 27165), (228, 27204), (235, 27237), (236, 27243), (239, 27252), (242, 27267), (253, 27312), (277, 27417), (287, 27453), (302, 27513), (304, 27522), (316, 27591),

Gene: Sigman\_29 Start: 26212, Stop: 27645, Start Num: 25

Candidate Starts for Sigman\_29:

(Start: 25 @26212 has 339 MA's), (35, 26269), (40, 26293), (45, 26317), (61, 26392), (101, 26608), (108, 26635), (110, 26644), (114, 26665), (119, 26686), (121, 26695), (133, 26758), (153, 26851), (163, 26908), (166, 26926), (198, 27058), (210, 27106), (219, 27148), (220, 27154), (221, 27157), (228, 27196), (235, 27229), (236, 27235), (239, 27244), (242, 27259), (253, 27304), (277, 27409), (287, 27445), (302, 27505), (304, 27514), (316, 27583),

Gene: SilentRX\_32 Start: 25897, Stop: 27111, Start Num: 27

Candidate Starts for SilentRX\_32:

(Start: 27 @25897 has 38 MA's), (88, 26155), (94, 26188), (95, 26191), (112, 26263), (123, 26323), (133, 26353), (138, 26374), (143, 26389), (167, 26497), (233, 26728), (237, 26746), (244, 26770), (280, 26902), (284, 26920), (288, 26932), (290, 26938), (294, 26959), (308, 27007), (311, 27019), (313, 27043), (317, 27055), (318, 27058), (324, 27082),

Gene: SilverBell\_29 Start: 26242, Stop: 27675, Start Num: 25

Candidate Starts for SilverBell\_29:

(Start: 25 @26242 has 339 MA's), (35, 26299), (40, 26323), (45, 26347), (61, 26422), (101, 26638), (108, 26665), (110, 26674), (114, 26695), (119, 26716), (121, 26725), (133, 26788), (153, 26881), (163, 26938), (166, 26956), (198, 27088), (210, 27136), (219, 27178), (220, 27184), (221, 27187), (228, 27226), (235, 27259), (236, 27265), (239, 27274), (242, 27289), (253, 27334), (277, 27439), (287, 27475), (302, 27535), (304, 27544), (316, 27613),

Gene: Simielle\_28 Start: 25915, Stop: 27348, Start Num: 25

Candidate Starts for Simielle\_28:

(Start: 25 @25915 has 339 MA's), (35, 25972), (40, 25996), (45, 26020), (61, 26095), (101, 26311), (108, 26338), (110, 26347), (114, 26368), (119, 26389), (121, 26398), (133, 26461), (153, 26554), (163, 26611), (166, 26629), (198, 26761), (210, 26809), (219, 26851), (220, 26857), (221, 26860), (228, 26899), (235, 26932), (236, 26938), (239, 26947), (242, 26962), (253, 27007), (277, 27112), (287, 27148), (302, 27208), (304, 27217), (316, 27286),

Gene: SirBeauregard\_29 Start: 25919, Stop: 27352, Start Num: 25

Candidate Starts for SirBeauregard\_29:

(Start: 25 @25919 has 339 MA's), (35, 25976), (40, 26000), (45, 26024), (61, 26099), (101, 26315), (108, 26342), (110, 26351), (114, 26372), (119, 26393), (121, 26402), (133, 26465), (153, 26558), (154, 26561), (163, 26615), (166, 26633), (198, 26765), (210, 26813), (219, 26855), (220, 26861), (221, 26864), (228, 26903), (230, 26921), (235, 26936), (236, 26942), (239, 26951), (242, 26966), (253, 27011), (277, 27116), (287, 27152), (302, 27212), (304, 27221), (316, 27290),

Gene: SirJeffery\_28 Start: 26460, Stop: 27893, Start Num: 25

Candidate Starts for SirJeffery\_28:

(13, 26394), (Start: 25 @26460 has 339 MA's), (43, 26556), (44, 26562), (56, 26613), (76, 26712), (79, 26742), (92, 26805), (110, 26892), (111, 26898), (119, 26934), (121, 26943), (131, 26994), (165, 27165), (167, 27177), (184, 27255), (202, 27315), (206, 27333), (219, 27396), (244, 27513), (246, 27519), (279, 27663), (290, 27705), (322, 27861), (324, 27867),

Gene: Sisko\_25 Start: 23995, Stop: 25524, Start Num: 9

Candidate Starts for Sisko\_25:

(Start: 9 @23995 has 19 MA's), (14, 24028), (59, 24259), (77, 24343), (110, 24523), (115, 24547), (119, 24565), (121, 24574), (130, 24622), (131, 24625), (136, 24646), (163, 24787), (165, 24796), (166, 24805), (167, 24808), (171, 24829), (183, 24877), (186, 24898), (197, 24934), (219, 25027), (220, 25033), (228, 25075), (235, 25108), (236, 25114), (239, 25123), (256, 25192), (269, 25246),

(279, 25294), (316, 25462),

Gene: Skippy\_29 Start: 26210, Stop: 27643, Start Num: 25

Candidate Starts for Skippy\_29:

(Start: 25 @26210 has 339 MA's), (35, 26267), (40, 26291), (45, 26315), (61, 26390), (101, 26606), (108, 26633), (110, 26642), (114, 26663), (119, 26684), (121, 26693), (133, 26756), (153, 26849), (163, 26906), (166, 26924), (198, 27056), (210, 27104), (219, 27146), (220, 27152), (221, 27155), (228, 27194), (235, 27227), (236, 27233), (239, 27242), (242, 27257), (253, 27302), (277, 27407), (287, 27443), (302, 27503), (304, 27512), (316, 27581),

Gene: Slatt\_29 Start: 26235, Stop: 27668, Start Num: 25

Candidate Starts for Slatt\_29:

(Start: 25 @26235 has 339 MA's), (35, 26292), (40, 26316), (45, 26340), (61, 26415), (101, 26631), (108, 26658), (110, 26667), (114, 26688), (119, 26709), (121, 26718), (133, 26781), (153, 26874), (163, 26931), (166, 26949), (198, 27081), (210, 27129), (219, 27171), (220, 27177), (221, 27180), (228, 27219), (235, 27252), (236, 27258), (239, 27267), (242, 27282), (253, 27327), (277, 27432), (287, 27468), (302, 27528), (304, 27537), (316, 27606),

Gene: SlippinJimmy\_29 Start: 26911, Stop: 28341, Start Num: 26

Candidate Starts for SlippinJimmy\_29:

(Start: 26 @26911 has 105 MA's), (35, 26968), (40, 26992), (41, 27001), (61, 27088), (89, 27238), (93, 27265), (110, 27340), (117, 27370), (121, 27391), (123, 27409), (136, 27463), (143, 27496), (167, 27625), (184, 27703), (186, 27715), (193, 27736), (197, 27751), (202, 27763), (219, 27844), (220, 27850), (229, 27898), (230, 27910), (241, 27952), (247, 27970), (254, 28003), (265, 28051), (279, 28111), (283, 28126), (287, 28141), (288, 28144), (303, 28207), (316, 28279), (322, 28309),

Gene: Soile\_29 Start: 25942, Stop: 27375, Start Num: 25

Candidate Starts for Soile\_29:

(Start: 25 @25942 has 339 MA's), (35, 25999), (40, 26023), (45, 26047), (61, 26122), (101, 26338), (108, 26365), (110, 26374), (114, 26395), (119, 26416), (121, 26425), (133, 26488), (153, 26581), (154, 26584), (163, 26638), (166, 26656), (198, 26788), (210, 26836), (219, 26878), (220, 26884), (221, 26887), (228, 26926), (235, 26959), (236, 26965), (239, 26974), (242, 26989), (253, 27034), (277, 27139), (287, 27175), (302, 27235), (304, 27244), (316, 27313),

Gene: Solosis\_28 Start: 25937, Stop: 27370, Start Num: 25

Candidate Starts for Solosis\_28:

(Start: 25 @25937 has 339 MA's), (35, 25994), (40, 26018), (45, 26042), (61, 26117), (101, 26333), (108, 26360), (110, 26369), (114, 26390), (119, 26411), (121, 26420), (133, 26483), (153, 26576), (163, 26633), (166, 26651), (198, 26783), (210, 26831), (219, 26873), (220, 26879), (221, 26882), (228, 26921), (235, 26954), (236, 26960), (239, 26969), (242, 26984), (253, 27029), (277, 27134), (287, 27170), (302, 27230), (304, 27239), (309, 27266), (316, 27308),

Gene: Soos\_53 Start: 35379, Stop: 36665, Start Num: 26

Candidate Starts for Soos\_53:

(Start: 26 @35379 has 105 MA's), (29, 35397), (83, 35616), (89, 35658), (118, 35790), (148, 35931), (179, 36078), (192, 36135), (244, 36312), (257, 36363), (272, 36420), (273, 36423), (281, 36453), (284, 36468), (295, 36510), (300, 36525), (325, 36636), (327, 36651),

Gene: Sophia\_28 Start: 25937, Stop: 27370, Start Num: 25

Candidate Starts for Sophia\_28:

(Start: 25 @25937 has 339 MA's), (35, 25994), (40, 26018), (45, 26042), (61, 26117), (101, 26333), (108, 26360), (110, 26369), (114, 26390), (119, 26411), (121, 26420), (133, 26483), (153, 26576), (163, 26633), (166, 26651), (198, 26783), (210, 26831), (219, 26873), (220, 26879), (221, 26882),

(228, 26921), (235, 26954), (236, 26960), (239, 26969), (242, 26984), (253, 27029), (277, 27134), (287, 27170), (302, 27230), (304, 27239), (316, 27308),

Gene: Soto\_29 Start: 26230, Stop: 27663, Start Num: 25

Candidate Starts for Soto\_29:

(Start: 25 @26230 has 339 MA's), (35, 26287), (40, 26311), (45, 26335), (61, 26410), (101, 26626), (108, 26653), (110, 26662), (114, 26683), (119, 26704), (121, 26713), (133, 26776), (153, 26869), (163, 26926), (166, 26944), (198, 27076), (210, 27124), (219, 27166), (220, 27172), (221, 27175), (228, 27214), (235, 27247), (236, 27253), (239, 27262), (242, 27277), (253, 27322), (277, 27427), (287, 27463), (302, 27523), (304, 27532), (316, 27601),

Gene: Sour\_29 Start: 27744, Stop: 29273, Start Num: 9

Candidate Starts for Sour\_29:

(Start: 9 @27744 has 19 MA's), (14, 27777), (30, 27864), (109, 28269), (110, 28272), (115, 28296), (119, 28314), (121, 28323), (122, 28326), (123, 28341), (130, 28371), (165, 28545), (166, 28554), (167, 28557), (183, 28626), (184, 28635), (186, 28647), (188, 28650), (219, 28776), (220, 28782), (224, 28812), (228, 28824), (235, 28857), (254, 28935), (263, 28971), (286, 29070), (288, 29076),

Gene: Spartan300\_29 Start: 26216, Stop: 27649, Start Num: 25

Candidate Starts for Spartan300\_29:

(Start: 25 @26216 has 339 MA's), (35, 26273), (40, 26297), (45, 26321), (61, 26396), (101, 26612), (108, 26639), (110, 26648), (114, 26669), (119, 26690), (121, 26699), (133, 26762), (153, 26855), (163, 26912), (166, 26930), (198, 27062), (210, 27110), (219, 27152), (220, 27158), (221, 27161), (228, 27200), (235, 27233), (236, 27239), (239, 27248), (242, 27263), (253, 27308), (277, 27413), (287, 27449), (302, 27509), (304, 27518), (316, 27587),

Gene: Squid\_29 Start: 25928, Stop: 27361, Start Num: 25

Candidate Starts for Squid\_29:

(Start: 25 @25928 has 339 MA's), (35, 25985), (40, 26009), (45, 26033), (61, 26108), (101, 26324), (108, 26351), (110, 26360), (114, 26381), (119, 26402), (121, 26411), (133, 26474), (153, 26567), (163, 26624), (166, 26642), (198, 26774), (210, 26822), (219, 26864), (220, 26870), (221, 26873), (228, 26912), (235, 26945), (236, 26951), (239, 26960), (242, 26975), (253, 27020), (277, 27125), (287, 27161), (302, 27221), (304, 27230), (316, 27299),

Gene: Squiggle\_29 Start: 25940, Stop: 27373, Start Num: 25

Candidate Starts for Squiggle\_29:

(Start: 25 @25940 has 339 MA's), (35, 25997), (40, 26021), (45, 26045), (61, 26120), (101, 26336), (108, 26363), (110, 26372), (114, 26393), (119, 26414), (121, 26423), (133, 26486), (153, 26579), (163, 26636), (166, 26654), (198, 26786), (210, 26834), (219, 26876), (220, 26882), (221, 26885), (228, 26924), (235, 26957), (236, 26963), (239, 26972), (242, 26987), (253, 27032), (277, 27137), (287, 27173), (302, 27233), (304, 27242), (316, 27311),

Gene: StAugustine\_32 Start: 29356, Stop: 30786, Start Num: 26

Candidate Starts for StAugustine\_32:

(Start: 26 @29356 has 105 MA's), (31, 29380), (35, 29413), (52, 29491), (109, 29785), (110, 29788), (116, 29815), (131, 29890), (133, 29902), (144, 29953), (153, 29992), (168, 30070), (170, 30082), (177, 30115), (183, 30136), (210, 30244), (211, 30247), (216, 30265), (235, 30370), (236, 30376), (253, 30445), (254, 30448), (256, 30454), (282, 30565), (287, 30586),

Gene: Stillion\_57 Start: 35976, Stop: 37262, Start Num: 26

Candidate Starts for Stillion\_57:

(Start: 26 @35976 has 105 MA's), (29, 35994), (83, 36213), (89, 36255), (118, 36387), (148, 36528), (179, 36675), (192, 36732), (244, 36909), (257, 36960), (272, 37017), (273, 37020), (281, 37050),

(284, 37065), (295, 37107), (300, 37122), (325, 37233), (327, 37248),

Gene: Sting\_56 Start: 35818, Stop: 37104, Start Num: 26

Candidate Starts for Sting\_56:

(Start: 26 @35818 has 105 MA's), (29, 35836), (83, 36055), (89, 36097), (118, 36229), (148, 36370), (179, 36517), (192, 36574), (244, 36751), (257, 36802), (272, 36859), (273, 36862), (281, 36892), (284, 36907), (295, 36949), (300, 36964), (325, 37075), (327, 37090),

Gene: Stinger\_24 Start: 25034, Stop: 26467, Start Num: 25

Candidate Starts for Stinger\_24:

(Start: 25 @25034 has 339 MA's), (32, 25067), (35, 25091), (36, 25094), (41, 25124), (53, 25172), (61, 25214), (70, 25247), (77, 25289), (101, 25430), (109, 25463), (110, 25466), (111, 25472), (119, 25508), (121, 25517), (126, 25547), (131, 25568), (133, 25580), (145, 25640), (160, 25721), (165, 25739), (166, 25748), (167, 25751), (171, 25772), (183, 25820), (184, 25829), (186, 25841), (200, 25883), (202, 25889), (206, 25907), (207, 25910), (219, 25970), (220, 25976), (228, 26018), (235, 26051), (239, 26066), (241, 26078), (254, 26129), (258, 26141), (282, 26246), (287, 26267), (303, 26333), (306, 26345), (307, 26354), (315, 26402), (322, 26435), (324, 26441), (328, 26462),

Gene: StinkyVeggy\_30 Start: 26607, Stop: 28040, Start Num: 25

Candidate Starts for StinkyVeggy\_30:

(Start: 25 @26607 has 339 MA's), (44, 26709), (76, 26859), (79, 26889), (85, 26907), (91, 26949), (110, 27039), (111, 27045), (119, 27081), (121, 27090), (135, 27159), (167, 27324), (202, 27462), (206, 27480), (219, 27543), (244, 27660), (246, 27666), (279, 27810), (290, 27852), (293, 27873), (322, 28008), (324, 28014),

Gene: Struggle\_28 Start: 25778, Stop: 27211, Start Num: 25

Candidate Starts for Struggle\_28:

(Start: 25 @25778 has 339 MA's), (35, 25835), (40, 25859), (45, 25883), (61, 25958), (101, 26174), (108, 26201), (110, 26210), (114, 26231), (119, 26252), (121, 26261), (133, 26324), (153, 26417), (166, 26492), (198, 26624), (210, 26672), (219, 26714), (220, 26720), (221, 26723), (228, 26762), (230, 26780), (235, 26795), (236, 26801), (239, 26810), (242, 26825), (253, 26870), (277, 26975), (287, 27011), (302, 27071), (304, 27080), (309, 27107), (316, 27149), (321, 27170),

Gene: Suffolk\_29 Start: 26224, Stop: 27657, Start Num: 25

Candidate Starts for Suffolk\_29:

(Start: 25 @26224 has 339 MA's), (35, 26281), (40, 26305), (45, 26329), (61, 26404), (101, 26620), (108, 26647), (110, 26656), (114, 26677), (119, 26698), (121, 26707), (133, 26770), (153, 26863), (163, 26920), (166, 26938), (198, 27070), (210, 27118), (219, 27160), (220, 27166), (221, 27169), (228, 27208), (235, 27241), (236, 27247), (239, 27256), (242, 27271), (253, 27316), (277, 27421), (287, 27457), (302, 27517), (304, 27526), (316, 27595),

Gene: Suigeneris\_28 Start: 26463, Stop: 27896, Start Num: 25

Candidate Starts for Suigeneris\_28:

(13, 26397), (Start: 25 @26463 has 339 MA's), (43, 26559), (44, 26565), (56, 26616), (76, 26715), (79, 26745), (92, 26808), (110, 26895), (111, 26901), (119, 26937), (121, 26946), (131, 26997), (165, 27168), (167, 27180), (184, 27258), (202, 27318), (206, 27336), (219, 27399), (244, 27516), (246, 27522), (279, 27666), (290, 27708), (322, 27864), (324, 27870),

Gene: Surely\_29 Start: 26230, Stop: 27663, Start Num: 25

Candidate Starts for Surely\_29:

(Start: 25 @26230 has 339 MA's), (35, 26287), (40, 26311), (45, 26335), (61, 26410), (101, 26626), (108, 26653), (110, 26662), (114, 26683), (119, 26704), (121, 26713), (133, 26776), (153, 26869), (163, 26926), (166, 26944), (198, 27076), (210, 27124), (219, 27166), (220, 27172), (221, 27175),

(228, 27214), (235, 27247), (236, 27253), (239, 27262), (242, 27277), (253, 27322), (277, 27427), (287, 27463), (302, 27523), (304, 27532), (316, 27601),

Gene: SwainyDoc\_29 Start: 26144, Stop: 27574, Start Num: 26

Candidate Starts for SwainyDoc\_29:

(Start: 26 @26144 has 105 MA's), (35, 26201), (40, 26225), (41, 26234), (61, 26321), (89, 26471), (93, 26498), (110, 26573), (117, 26603), (121, 26624), (123, 26642), (136, 26696), (143, 26729), (167, 26858), (184, 26936), (186, 26948), (193, 26969), (197, 26984), (202, 26996), (219, 27077), (220, 27083), (229, 27131), (230, 27143), (241, 27185), (247, 27203), (254, 27236), (265, 27284), (279, 27344), (283, 27359), (287, 27374), (288, 27377), (316, 27512), (322, 27542),

Gene: Swiphy\_29 Start: 26225, Stop: 27658, Start Num: 25

Candidate Starts for Swiphy\_29:

(Start: 25 @26225 has 339 MA's), (35, 26282), (40, 26306), (45, 26330), (61, 26405), (108, 26648), (110, 26657), (114, 26678), (119, 26699), (121, 26708), (133, 26771), (153, 26864), (154, 26867), (163, 26921), (166, 26939), (198, 27071), (210, 27119), (219, 27161), (220, 27167), (221, 27170), (228, 27209), (230, 27227), (235, 27242), (236, 27248), (239, 27257), (242, 27272), (253, 27317), (277, 27422), (287, 27458), (302, 27518), (304, 27527), (309, 27554), (316, 27596), (321, 27617),

Gene: Swish\_29 Start: 26213, Stop: 27646, Start Num: 25

Candidate Starts for Swish\_29:

(Start: 25 @26213 has 339 MA's), (35, 26270), (40, 26294), (45, 26318), (61, 26393), (101, 26609), (108, 26636), (110, 26645), (114, 26666), (119, 26687), (121, 26696), (133, 26759), (153, 26852), (163, 26909), (166, 26927), (198, 27059), (210, 27107), (219, 27149), (220, 27155), (221, 27158), (228, 27197), (235, 27230), (236, 27236), (239, 27245), (242, 27260), (253, 27305), (277, 27410), (287, 27446), (302, 27506), (304, 27515), (316, 27584),

Gene: SynergyX\_29 Start: 26147, Stop: 27577, Start Num: 26

Candidate Starts for SynergyX\_29:

(Start: 26 @26147 has 105 MA's), (35, 26204), (40, 26228), (41, 26237), (61, 26324), (89, 26474), (93, 26501), (110, 26576), (117, 26606), (121, 26627), (123, 26645), (136, 26699), (143, 26732), (167, 26861), (184, 26939), (186, 26951), (193, 26972), (197, 26987), (202, 26999), (219, 27080), (220, 27086), (229, 27134), (230, 27146), (241, 27188), (247, 27206), (254, 27239), (265, 27287), (279, 27347), (283, 27362), (287, 27377), (288, 27380), (303, 27443), (316, 27515), (322, 27545),

Gene: TA17A\_31 Start: 27470, Stop: 28906, Start Num: 26

Candidate Starts for TA17A\_31:

(Start: 26 @27470 has 105 MA's), (32, 27503), (35, 27527), (36, 27530), (40, 27551), (44, 27572), (51, 27605), (60, 27650), (63, 27659), (77, 27722), (109, 27902), (110, 27905), (114, 27926), (120, 27950), (121, 27956), (123, 27974), (130, 28004), (131, 28007), (134, 28022), (136, 28028), (150, 28097), (158, 28151), (163, 28169), (166, 28187), (167, 28190), (172, 28214), (184, 28268), (195, 28307), (201, 28325), (206, 28346), (218, 28403), (219, 28409), (221, 28418), (230, 28475), (244, 28526), (247, 28535), (254, 28568), (257, 28577), (271, 28643), (282, 28685), (287, 28706), (290, 28718), (292, 28736), (304, 28775), (315, 28841), (316, 28844), (322, 28874),

Gene: TP1604\_21 Start: 20262, Stop: 21599, Start Num: 27

Candidate Starts for TP1604\_21:

(3, 19857), (4, 20082), (6, 20130), (8, 20142), (Start: 27 @20262 has 38 MA's), (39, 20337), (71, 20436), (84, 20508), (89, 20544), (92, 20556), (104, 20610), (114, 20658), (127, 20724), (165, 20892), (168, 20907), (176, 20946), (178, 20955), (185, 20988), (213, 21063), (232, 21102), (238, 21126), (247, 21156), (251, 21180), (276, 21267), (297, 21357), (310, 21414), (311, 21417), (324, 21483), (332, 21564), (334, 21579),

Gene: TPA2\_34 Start: 28281, Stop: 29273, Start Num: 110

Candidate Starts for TPA2\_34:

(Start: 10 @27750 has 3 MA's), (62, 28038), (64, 28044), (86, 28155), (110, 28281), (111, 28287), (125, 28359), (130, 28380), (134, 28398), (136, 28404), (167, 28566), (173, 28596), (183, 28635), (186, 28656), (189, 28662), (206, 28722), (207, 28725), (218, 28779), (235, 28860), (253, 28935), (254, 28938), (256, 28944), (279, 29043), (311, 29178), (315, 29208), (322, 29241),

Gene: TallGrassMM\_29 Start: 25852, Stop: 27285, Start Num: 25

Candidate Starts for TallGrassMM\_29:

(Start: 25 @25852 has 339 MA's), (35, 25909), (40, 25933), (45, 25957), (61, 26032), (101, 26248), (108, 26275), (110, 26284), (114, 26305), (119, 26326), (121, 26335), (133, 26398), (153, 26491), (163, 26548), (166, 26566), (198, 26698), (210, 26746), (219, 26788), (220, 26794), (221, 26797), (228, 26836), (235, 26869), (236, 26875), (239, 26884), (242, 26899), (253, 26944), (277, 27049), (287, 27085), (302, 27145), (304, 27154), (316, 27223),

Gene: Tank\_32 Start: 25546, Stop: 26763, Start Num: 27

Candidate Starts for Tank\_32:

(Start: 27 @25546 has 38 MA's), (40, 25624), (55, 25666), (104, 25876), (105, 25879), (107, 25888), (112, 25912), (123, 25972), (132, 25999), (159, 26119), (165, 26134), (191, 26254), (280, 26554), (281, 26557), (290, 26590), (311, 26671), (313, 26695), (318, 26710),

Gene: Taptic\_22 Start: 24689, Stop: 26125, Start Num: 27

Candidate Starts for Taptic\_22:

(Start: 27 @24689 has 38 MA's), (31, 24710), (32, 24719), (60, 24866), (63, 24875), (82, 24977), (86, 24995), (93, 25046), (99, 25076), (108, 25112), (110, 25121), (115, 25145), (117, 25151), (131, 25223), (163, 25385), (164, 25391), (166, 25403), (167, 25406), (184, 25484), (186, 25496), (197, 25532), (203, 25547), (206, 25565), (219, 25628), (220, 25634), (222, 25655), (227, 25673), (228, 25676), (230, 25694), (241, 25736), (244, 25745), (247, 25754), (254, 25787), (269, 25847), (271, 25862), (279, 25895), (287, 25925), (315, 26060), (316, 26063),

Gene: Taraxa\_28 Start: 25437, Stop: 26870, Start Num: 25

Candidate Starts for Taraxa\_28:

(Start: 25 @25437 has 339 MA's), (35, 25494), (40, 25518), (45, 25542), (61, 25617), (101, 25833), (108, 25860), (110, 25869), (114, 25890), (119, 25911), (121, 25920), (133, 25983), (153, 26076), (166, 26151), (198, 26283), (210, 26331), (219, 26373), (220, 26379), (221, 26382), (228, 26421), (230, 26439), (235, 26454), (236, 26460), (239, 26469), (242, 26484), (253, 26529), (277, 26634), (287, 26670), (302, 26730), (304, 26739), (309, 26766), (316, 26808), (321, 26829),

Gene: Telesworld\_28 Start: 25924, Stop: 27357, Start Num: 25

Candidate Starts for Telesworld\_28:

(Start: 25 @25924 has 339 MA's), (35, 25981), (40, 26005), (45, 26029), (61, 26104), (101, 26320), (108, 26347), (110, 26356), (114, 26377), (119, 26398), (121, 26407), (133, 26470), (153, 26563), (163, 26620), (166, 26638), (198, 26770), (210, 26818), (219, 26860), (220, 26866), (221, 26869), (228, 26908), (235, 26941), (236, 26947), (239, 26956), (242, 26971), (253, 27016), (277, 27121), (287, 27157), (302, 27217), (304, 27226), (316, 27295),

Gene: Thonko\_27 Start: 24655, Stop: 26097, Start Num: 26

Candidate Starts for Thonko\_27:

(Start: 26 @24655 has 105 MA's), (51, 24796), (61, 24844), (75, 24910), (108, 25087), (110, 25096), (123, 25165), (153, 25303), (167, 25381), (184, 25459), (186, 25471), (189, 25477), (219, 25600), (220, 25606), (235, 25681), (241, 25708), (244, 25717), (254, 25759), (258, 25771), (277, 25861), (279, 25867), (286, 25894),

Gene: Thora\_29 Start: 26229, Stop: 27662, Start Num: 25

Candidate Starts for Thora\_29:

(Start: 25 @26229 has 339 MA's), (35, 26286), (40, 26310), (45, 26334), (61, 26409), (101, 26625), (108, 26652), (110, 26661), (114, 26682), (119, 26703), (121, 26712), (133, 26775), (153, 26868), (163, 26925), (166, 26943), (198, 27075), (210, 27123), (219, 27165), (220, 27171), (221, 27174), (228, 27213), (235, 27246), (236, 27252), (239, 27261), (242, 27276), (253, 27321), (277, 27426), (287, 27462), (302, 27522), (304, 27531), (316, 27600),

Gene: ThreeOh3D2\_29 Start: 26227, Stop: 27660, Start Num: 25

Candidate Starts for ThreeOh3D2\_29:

(Start: 25 @26227 has 339 MA's), (35, 26284), (40, 26308), (45, 26332), (61, 26407), (101, 26623), (108, 26650), (110, 26659), (114, 26680), (119, 26701), (121, 26710), (133, 26773), (153, 26866), (163, 26923), (166, 26941), (198, 27073), (210, 27121), (219, 27163), (220, 27169), (221, 27172), (228, 27211), (235, 27244), (236, 27250), (239, 27259), (242, 27274), (253, 27319), (277, 27424), (287, 27460), (302, 27520), (304, 27529), (316, 27598),

Gene: Thunderbird\_28 Start: 25933, Stop: 27366, Start Num: 25

Candidate Starts for Thunderbird\_28:

(Start: 25 @25933 has 339 MA's), (35, 25990), (40, 26014), (45, 26038), (61, 26113), (108, 26356), (110, 26365), (114, 26386), (119, 26407), (121, 26416), (133, 26479), (153, 26572), (154, 26575), (166, 26647), (198, 26779), (210, 26827), (219, 26869), (220, 26875), (221, 26878), (228, 26917), (230, 26935), (235, 26950), (236, 26956), (239, 26965), (242, 26980), (253, 27025), (277, 27130), (287, 27166), (302, 27226), (304, 27235), (309, 27262), (316, 27304), (321, 27325),

Gene: Timmi\_28 Start: 25938, Stop: 27371, Start Num: 25

Candidate Starts for Timmi\_28:

(Start: 25 @25938 has 339 MA's), (35, 25995), (40, 26019), (45, 26043), (61, 26118), (101, 26334), (108, 26361), (110, 26370), (114, 26391), (119, 26412), (121, 26421), (133, 26484), (153, 26577), (163, 26634), (166, 26652), (198, 26784), (210, 26832), (219, 26874), (220, 26880), (221, 26883), (228, 26922), (235, 26955), (236, 26961), (239, 26970), (242, 26985), (253, 27030), (277, 27135), (287, 27171), (302, 27231), (304, 27240), (316, 27309),

Gene: Tinciduntolum\_31 Start: 27608, Stop: 29044, Start Num: 26

Candidate Starts for Tinciduntolum\_31:

(Start: 26 @27608 has 105 MA's), (32, 27641), (35, 27665), (36, 27668), (40, 27689), (44, 27710), (51, 27743), (60, 27788), (63, 27797), (77, 27860), (109, 28040), (110, 28043), (114, 28064), (120, 28088), (121, 28094), (123, 28112), (130, 28142), (131, 28145), (134, 28160), (136, 28166), (150, 28235), (158, 28289), (163, 28307), (166, 28325), (167, 28328), (172, 28352), (184, 28406), (195, 28445), (201, 28463), (206, 28484), (218, 28541), (219, 28547), (221, 28556), (230, 28613), (244, 28664), (247, 28673), (254, 28706), (257, 28715), (271, 28781), (282, 28823), (287, 28844), (290, 28856), (292, 28874), (304, 28913), (315, 28979), (316, 28982), (322, 29012),

Gene: TinyTerror\_29 Start: 26135, Stop: 27565, Start Num: 26

Candidate Starts for TinyTerror\_29:

(Start: 26 @26135 has 105 MA's), (35, 26192), (40, 26216), (41, 26225), (61, 26312), (89, 26462), (93, 26489), (110, 26564), (117, 26594), (121, 26615), (123, 26633), (136, 26687), (143, 26720), (167, 26849), (184, 26927), (186, 26939), (193, 26960), (197, 26975), (202, 26987), (219, 27068), (220, 27074), (230, 27134), (241, 27176), (247, 27194), (254, 27227), (265, 27275), (279, 27335), (283, 27350), (287, 27365), (288, 27368), (316, 27503), (322, 27533),

Gene: TomBombadil\_29 Start: 26223, Stop: 27656, Start Num: 25

Candidate Starts for TomBombadil\_29:

(Start: 25 @26223 has 339 MA's), (35, 26280), (40, 26304), (45, 26328), (61, 26403), (101, 26619), (108, 26646), (110, 26655), (114, 26676), (119, 26697), (121, 26706), (133, 26769), (153, 26862), (163, 26919), (166, 26937), (198, 27069), (210, 27117), (219, 27159), (220, 27165), (221, 27168), (228, 27207), (235, 27240), (236, 27246), (239, 27255), (242, 27270), (253, 27315), (277, 27420), (287, 27456), (302, 27516), (304, 27525), (316, 27594),

Gene: Tomlarah\_29 Start: 26214, Stop: 27647, Start Num: 25

Candidate Starts for Tomlarah\_29:

(Start: 25 @26214 has 339 MA's), (35, 26271), (40, 26295), (45, 26319), (61, 26394), (101, 26610), (108, 26637), (110, 26646), (114, 26667), (119, 26688), (121, 26697), (133, 26760), (153, 26853), (163, 26910), (166, 26928), (198, 27060), (210, 27108), (219, 27150), (220, 27156), (221, 27159), (228, 27198), (235, 27231), (236, 27237), (239, 27246), (242, 27261), (253, 27306), (277, 27411), (287, 27447), (302, 27507), (304, 27516), (316, 27585),

Gene: Toni\_28 Start: 25930, Stop: 27363, Start Num: 25

Candidate Starts for Toni\_28:

(Start: 25 @25930 has 339 MA's), (35, 25987), (40, 26011), (45, 26035), (61, 26110), (101, 26326), (108, 26353), (110, 26362), (114, 26383), (119, 26404), (121, 26413), (133, 26476), (153, 26569), (163, 26626), (166, 26644), (198, 26776), (210, 26824), (219, 26866), (220, 26872), (221, 26875), (228, 26914), (235, 26947), (236, 26953), (239, 26962), (242, 26977), (253, 27022), (277, 27127), (287, 27163), (302, 27223), (304, 27232), (316, 27301),

Gene: Tonitrus\_44 Start: 33595, Stop: 34905, Start Num: 26

Candidate Starts for Tonitrus\_44:

(Start: 26 @33595 has 105 MA's), (40, 33676), (78, 33823), (83, 33832), (84, 33838), (90, 33877), (124, 34039), (136, 34084), (143, 34117), (152, 34162), (165, 34231), (187, 34339), (192, 34357), (229, 34471), (235, 34498), (239, 34513), (249, 34549), (260, 34594), (270, 34648), (274, 34663), (276, 34672), (289, 34723), (291, 34729), (301, 34765), (308, 34792), (313, 34828), (314, 34831), (327, 34891),

Gene: TooFast2Furius\_30 Start: 26459, Stop: 27892, Start Num: 25

Candidate Starts for TooFast2Furius\_30:

(Start: 25 @26459 has 339 MA's), (35, 26516), (40, 26540), (45, 26564), (61, 26639), (101, 26855), (108, 26882), (110, 26891), (114, 26912), (119, 26933), (121, 26942), (133, 27005), (153, 27098), (163, 27155), (166, 27173), (198, 27305), (210, 27353), (219, 27395), (220, 27401), (221, 27404), (228, 27443), (235, 27476), (236, 27482), (239, 27491), (242, 27506), (253, 27551), (277, 27656), (287, 27692), (302, 27752), (304, 27761), (316, 27830),

Gene: Tooj\_29 Start: 26284, Stop: 27717, Start Num: 25

Candidate Starts for Tooj\_29:

(Start: 25 @26284 has 339 MA's), (35, 26341), (40, 26365), (45, 26389), (61, 26464), (101, 26680), (108, 26707), (110, 26716), (114, 26737), (119, 26758), (121, 26767), (133, 26830), (153, 26923), (163, 26980), (166, 26998), (198, 27130), (210, 27178), (219, 27220), (220, 27226), (221, 27229), (228, 27268), (235, 27301), (236, 27307), (239, 27316), (242, 27331), (253, 27376), (277, 27481), (287, 27517), (302, 27577), (304, 27586), (316, 27655),

Gene: TraderJ\_27 Start: 25487, Stop: 27013, Start Num: 9

Candidate Starts for TraderJ\_27:

(Start: 9 @25487 has 19 MA's), (14, 25520), (16, 25544), (18, 25547), (21, 25568), (24, 25583), (Start: 27 @25589 has 38 MA's), (Start: 28 @25592 has 1 MA's), (54, 25730), (66, 25781), (93, 25937), (108, 26003), (117, 26042), (132, 26117), (153, 26219), (163, 26276), (183, 26366), (184, 26375), (186, 26387), (200, 26429), (205, 26450), (219, 26516), (220, 26522), (227, 26561), (228, 26564), (235, 26597), (241, 26624), (244, 26633), (247, 26642), (258, 26687), (265, 26723), (269, 26735), (279,

26783), (302, 26873), (315, 26948), (322, 26981),

Gene: Tres\_30 Start: 27483, Stop: 28919, Start Num: 26

Candidate Starts for Tres\_30:

(Start: 26 @27483 has 105 MA's), (32, 27516), (35, 27540), (36, 27543), (40, 27564), (44, 27585), (51, 27618), (60, 27663), (63, 27672), (77, 27735), (109, 27915), (110, 27918), (114, 27939), (120, 27963), (121, 27969), (123, 27987), (130, 28017), (131, 28020), (134, 28035), (136, 28041), (150, 28110), (158, 28164), (163, 28182), (166, 28200), (167, 28203), (172, 28227), (184, 28281), (195, 28320), (201, 28338), (206, 28359), (218, 28416), (219, 28422), (221, 28431), (230, 28488), (244, 28539), (247, 28548), (254, 28581), (257, 28590), (271, 28656), (282, 28698), (287, 28719), (290, 28731), (292, 28749), (304, 28788), (315, 28854), (316, 28857), (322, 28887),

Gene: Triad\_29 Start: 25091, Stop: 26524, Start Num: 25

Candidate Starts for Triad\_29:

(Start: 25 @25091 has 339 MA's), (35, 25148), (40, 25172), (45, 25196), (61, 25271), (101, 25487), (108, 25514), (110, 25523), (114, 25544), (119, 25565), (121, 25574), (133, 25637), (153, 25730), (163, 25787), (166, 25805), (198, 25937), (210, 25985), (219, 26027), (220, 26033), (221, 26036), (228, 26075), (235, 26108), (236, 26114), (239, 26123), (242, 26138), (253, 26183), (262, 26213), (277, 26288), (287, 26324), (302, 26384), (304, 26393), (316, 26462),

Gene: True\_28 Start: 25927, Stop: 27360, Start Num: 25

Candidate Starts for True\_28:

(Start: 25 @25927 has 339 MA's), (35, 25984), (40, 26008), (45, 26032), (61, 26107), (101, 26323), (108, 26350), (110, 26359), (114, 26380), (119, 26401), (121, 26410), (133, 26473), (153, 26566), (163, 26623), (166, 26641), (198, 26773), (210, 26821), (219, 26863), (220, 26869), (221, 26872), (228, 26911), (235, 26944), (236, 26950), (239, 26959), (242, 26974), (253, 27019), (277, 27124), (287, 27160), (302, 27220), (304, 27229), (316, 27298),

Gene: Trypo\_29 Start: 26222, Stop: 27655, Start Num: 25

Candidate Starts for Trypo\_29:

(Start: 25 @26222 has 339 MA's), (35, 26279), (40, 26303), (45, 26327), (61, 26402), (108, 26645), (110, 26654), (114, 26675), (119, 26696), (121, 26705), (133, 26768), (153, 26861), (154, 26864), (163, 26918), (166, 26936), (198, 27068), (210, 27116), (219, 27158), (220, 27164), (221, 27167), (228, 27206), (230, 27224), (235, 27239), (236, 27245), (239, 27254), (242, 27269), (253, 27314), (277, 27419), (287, 27455), (302, 27515), (304, 27524), (309, 27551), (316, 27593), (321, 27614),

Gene: TurkishDelight\_29 Start: 26684, Stop: 28108, Start Num: 26

Candidate Starts for TurkishDelight\_29:

(Start: 26 @26684 has 105 MA's), (Start: 28 @26690 has 1 MA's), (32, 26717), (39, 26762), (58, 26813), (81, 26909), (98, 27002), (112, 27056), (117, 27077), (122, 27101), (145, 27215), (165, 27296), (178, 27359), (192, 27422), (204, 27458), (206, 27467), (215, 27506), (219, 27533), (226, 27575), (234, 27620), (248, 27671), (261, 27722), (262, 27728), (275, 27773), (282, 27800), (288, 27830), (290, 27839), (297, 27872), (310, 27929), (330, 28031), (331, 28049),

Gene: Tydolla\_29 Start: 26884, Stop: 28314, Start Num: 26

Candidate Starts for Tydolla\_29:

(Start: 26 @26884 has 105 MA's), (35, 26941), (40, 26965), (41, 26974), (61, 27061), (93, 27238), (108, 27304), (110, 27313), (117, 27343), (121, 27364), (123, 27382), (136, 27436), (167, 27598), (184, 27676), (186, 27688), (193, 27709), (197, 27724), (202, 27736), (219, 27817), (220, 27823), (229, 27871), (230, 27883), (241, 27925), (247, 27943), (254, 27976), (265, 28024), (279, 28084), (283, 28099), (287, 28114), (288, 28117), (303, 28180), (316, 28252), (322, 28282),

Gene: TyrionL\_28 Start: 25786, Stop: 27219, Start Num: 25

Candidate Starts for TyrionL\_28:

(Start: 25 @25786 has 339 MA's), (35, 25843), (40, 25867), (45, 25891), (61, 25966), (108, 26209), (110, 26218), (114, 26239), (119, 26260), (121, 26269), (133, 26332), (153, 26425), (154, 26428), (163, 26482), (166, 26500), (198, 26632), (210, 26680), (219, 26722), (220, 26728), (221, 26731), (228, 26770), (230, 26788), (235, 26803), (236, 26809), (239, 26818), (242, 26833), (253, 26878), (277, 26983), (287, 27019), (302, 27079), (304, 27088), (309, 27115), (316, 27157), (321, 27178),

Gene: UAch1\_29 Start: 26236, Stop: 27669, Start Num: 25

Candidate Starts for UAch1\_29:

(Start: 25 @26236 has 339 MA's), (35, 26293), (40, 26317), (45, 26341), (61, 26416), (101, 26632), (108, 26659), (110, 26668), (114, 26689), (119, 26710), (121, 26719), (133, 26782), (153, 26875), (163, 26932), (166, 26950), (198, 27082), (210, 27130), (219, 27172), (220, 27178), (221, 27181), (228, 27220), (235, 27253), (236, 27259), (239, 27268), (242, 27283), (253, 27328), (277, 27433), (287, 27469), (302, 27529), (304, 27538), (316, 27607),

Gene: UncleHowie\_29 Start: 25926, Stop: 27359, Start Num: 25

Candidate Starts for UncleHowie\_29:

(Start: 25 @25926 has 339 MA's), (35, 25983), (40, 26007), (45, 26031), (61, 26106), (101, 26322), (108, 26349), (110, 26358), (114, 26379), (119, 26400), (121, 26409), (133, 26472), (153, 26565), (163, 26622), (166, 26640), (198, 26772), (210, 26820), (219, 26862), (220, 26868), (221, 26871), (228, 26910), (235, 26943), (236, 26949), (239, 26958), (242, 26973), (253, 27018), (277, 27123), (287, 27159), (302, 27219), (304, 27228), (316, 27297),

Gene: Usavi\_29 Start: 26227, Stop: 27660, Start Num: 25

Candidate Starts for Usavi\_29:

(Start: 25 @26227 has 339 MA's), (35, 26284), (40, 26308), (45, 26332), (61, 26407), (101, 26623), (108, 26650), (110, 26659), (114, 26680), (119, 26701), (121, 26710), (133, 26773), (153, 26866), (163, 26923), (166, 26941), (198, 27073), (210, 27121), (219, 27163), (220, 27169), (221, 27172), (228, 27211), (235, 27244), (236, 27250), (239, 27259), (242, 27274), (253, 27319), (277, 27424), (287, 27460), (302, 27520), (304, 27529), (316, 27598),

Gene: Vaishali24\_28 Start: 25888, Stop: 27321, Start Num: 25

Candidate Starts for Vaishali24\_28:

(Start: 25 @25888 has 339 MA's), (35, 25945), (40, 25969), (45, 25993), (61, 26068), (101, 26284), (108, 26311), (110, 26320), (114, 26341), (119, 26362), (121, 26371), (133, 26434), (153, 26527), (163, 26584), (166, 26602), (198, 26734), (210, 26782), (219, 26824), (220, 26830), (221, 26833), (228, 26872), (235, 26905), (236, 26911), (239, 26920), (242, 26935), (253, 26980), (277, 27085), (287, 27121), (302, 27181), (304, 27190), (316, 27259),

Gene: Valjean\_29 Start: 26219, Stop: 27652, Start Num: 25

Candidate Starts for Valjean\_29:

(Start: 25 @26219 has 339 MA's), (35, 26276), (40, 26300), (45, 26324), (61, 26399), (101, 26615), (108, 26642), (110, 26651), (114, 26672), (119, 26693), (121, 26702), (133, 26765), (153, 26858), (163, 26915), (166, 26933), (198, 27065), (210, 27113), (219, 27155), (220, 27161), (221, 27164), (228, 27203), (235, 27236), (236, 27242), (239, 27251), (242, 27266), (253, 27311), (277, 27416), (287, 27452), (302, 27512), (304, 27521), (316, 27590),

Gene: Vaticameos\_29 Start: 25917, Stop: 27350, Start Num: 25

Candidate Starts for Vaticameos\_29:

(Start: 25 @25917 has 339 MA's), (35, 25974), (40, 25998), (45, 26022), (61, 26097), (101, 26313), (108, 26340), (110, 26349), (114, 26370), (119, 26391), (121, 26400), (133, 26463), (153, 26556), (163, 26613), (166, 26631), (198, 26763), (210, 26811), (219, 26853), (220, 26859), (221, 26862), (228, 26901), (235, 26934), (236, 26940), (239, 26949), (242, 26964), (253, 27009), (277, 27114),

(287, 27150), (302, 27210), (304, 27219), (316, 27288),

Gene: Veritas\_28 Start: 25789, Stop: 27222, Start Num: 25

Candidate Starts for Veritas\_28:

(Start: 25 @25789 has 339 MA's), (35, 25846), (40, 25870), (45, 25894), (61, 25969), (108, 26212), (110, 26221), (114, 26242), (119, 26263), (121, 26272), (133, 26335), (153, 26428), (163, 26485), (166, 26503), (198, 26635), (210, 26683), (219, 26725), (220, 26731), (221, 26734), (228, 26773), (230, 26791), (235, 26806), (236, 26812), (239, 26821), (242, 26836), (253, 26881), (277, 26986), (287, 27022), (302, 27082), (304, 27091), (309, 27118), (316, 27160), (321, 27181),

Gene: Vic9\_00030 Start: 27927, Stop: 29363, Start Num: 26

Candidate Starts for Vic9\_00030:

(Start: 26 @27927 has 105 MA's), (32, 27960), (35, 27984), (36, 27987), (40, 28008), (44, 28029), (51, 28062), (60, 28107), (63, 28116), (77, 28179), (109, 28359), (110, 28362), (114, 28383), (120, 28407), (121, 28413), (123, 28431), (130, 28461), (131, 28464), (134, 28479), (136, 28485), (150, 28554), (158, 28608), (163, 28626), (166, 28644), (167, 28647), (172, 28671), (184, 28725), (195, 28764), (201, 28782), (206, 28803), (218, 28860), (219, 28866), (221, 28875), (230, 28932), (244, 28983), (247, 28992), (254, 29025), (257, 29034), (271, 29100), (282, 29142), (287, 29163), (290, 29175), (292, 29193), (303, 29229), (304, 29232), (315, 29298), (316, 29301), (322, 29331),

Gene: Vincenzo\_27 Start: 27172, Stop: 28605, Start Num: 25

Candidate Starts for Vincenzo\_27:

(Start: 25 @27172 has 339 MA's), (35, 27229), (41, 27262), (53, 27310), (59, 27337), (61, 27352), (77, 27427), (79, 27454), (91, 27514), (101, 27568), (109, 27601), (110, 27604), (126, 27685), (131, 27706), (139, 27748), (153, 27811), (160, 27859), (166, 27886), (167, 27889), (183, 27958), (184, 27967), (186, 27979), (189, 27985), (202, 28027), (206, 28045), (210, 28066), (219, 28108), (220, 28114), (227, 28153), (235, 28189), (254, 28267), (258, 28279), (282, 28384), (287, 28405), (303, 28471), (315, 28540), (316, 28543), (322, 28573), (324, 28579), (326, 28588), (328, 28600),

Gene: VioletZ\_26 Start: 26533, Stop: 27966, Start Num: 25

Candidate Starts for VioletZ\_26:

(Start: 25 @26533 has 339 MA's), (32, 26566), (35, 26590), (36, 26593), (41, 26623), (51, 26665), (53, 26671), (61, 26713), (70, 26746), (77, 26788), (96, 26905), (101, 26929), (110, 26965), (111, 26971), (119, 27007), (121, 27016), (131, 27067), (139, 27109), (160, 27220), (165, 27238), (166, 27247), (167, 27250), (171, 27271), (184, 27328), (186, 27340), (200, 27382), (202, 27388), (219, 27469), (220, 27475), (223, 27499), (228, 27517), (235, 27550), (239, 27565), (241, 27577), (254, 27628), (256, 27634), (258, 27640), (282, 27745), (286, 27763), (287, 27766), (303, 27832), (307, 27853), (315, 27901), (324, 27940), (328, 27961),

Gene: Virapocalypse\_29 Start: 26213, Stop: 27646, Start Num: 25

Candidate Starts for Virapocalypse\_29:

(Start: 25 @26213 has 339 MA's), (35, 26270), (40, 26294), (45, 26318), (61, 26393), (101, 26609), (108, 26636), (110, 26645), (114, 26666), (119, 26687), (121, 26696), (133, 26759), (153, 26852), (163, 26909), (166, 26927), (198, 27059), (210, 27107), (219, 27149), (220, 27155), (221, 27158), (228, 27197), (230, 27215), (235, 27230), (236, 27236), (239, 27245), (242, 27260), (253, 27305), (277, 27410), (287, 27446), (302, 27506), (304, 27515), (316, 27584),

Gene: Virgeve\_28 Start: 25988, Stop: 27421, Start Num: 25

Candidate Starts for Virgeve\_28:

(Start: 25 @25988 has 339 MA's), (35, 26045), (40, 26069), (45, 26093), (61, 26168), (101, 26384), (108, 26411), (110, 26420), (114, 26441), (119, 26462), (121, 26471), (133, 26534), (153, 26627), (166, 26702), (198, 26834), (210, 26882), (219, 26924), (220, 26930), (221, 26933), (228, 26972), (230, 26990), (235, 27005), (236, 27011), (239, 27020), (242, 27035), (253, 27080), (277, 27185),

(287, 27221), (302, 27281), (304, 27290), (309, 27317), (316, 27359), (321, 27380),

Gene: Vista\_29 Start: 26227, Stop: 27660, Start Num: 25

Candidate Starts for Vista\_29:

(Start: 25 @26227 has 339 MA's), (35, 26284), (40, 26308), (45, 26332), (61, 26407), (101, 26623), (108, 26650), (110, 26659), (114, 26680), (119, 26701), (121, 26710), (133, 26773), (153, 26866), (163, 26923), (166, 26941), (198, 27073), (210, 27121), (219, 27163), (220, 27169), (221, 27172), (228, 27211), (235, 27244), (236, 27250), (239, 27259), (242, 27274), (253, 27319), (277, 27424), (287, 27460), (302, 27520), (304, 27529), (316, 27598),

Gene: Vivaldi\_29 Start: 26253, Stop: 27686, Start Num: 25

Candidate Starts for Vivaldi\_29:

(Start: 25 @26253 has 339 MA's), (35, 26310), (40, 26334), (45, 26358), (61, 26433), (101, 26649), (108, 26676), (110, 26685), (114, 26706), (119, 26727), (121, 26736), (133, 26799), (153, 26892), (163, 26949), (166, 26967), (198, 27099), (210, 27147), (219, 27189), (220, 27195), (221, 27198), (228, 27237), (235, 27270), (236, 27276), (239, 27285), (242, 27300), (253, 27345), (277, 27450), (287, 27486), (302, 27546), (304, 27555), (316, 27624),

Gene: Vortex\_29 Start: 25933, Stop: 27366, Start Num: 25

Candidate Starts for Vortex\_29:

(Start: 25 @25933 has 339 MA's), (35, 25990), (40, 26014), (45, 26038), (61, 26113), (101, 26329), (108, 26356), (110, 26365), (114, 26386), (119, 26407), (121, 26416), (133, 26479), (153, 26572), (163, 26629), (166, 26647), (198, 26779), (210, 26827), (219, 26869), (220, 26875), (221, 26878), (228, 26917), (235, 26950), (236, 26956), (239, 26965), (242, 26980), (253, 27025), (277, 27130), (287, 27166), (302, 27226), (304, 27235), (316, 27304),

Gene: Waleliano\_26 Start: 26460, Stop: 27893, Start Num: 25

Candidate Starts for Waleliano\_26:

(Start: 25 @26460 has 339 MA's), (32, 26493), (35, 26517), (36, 26520), (41, 26550), (51, 26592), (53, 26598), (61, 26640), (70, 26673), (77, 26715), (96, 26832), (101, 26856), (110, 26892), (111, 26898), (119, 26934), (121, 26943), (131, 26994), (139, 27036), (160, 27147), (165, 27165), (166, 27174), (167, 27177), (171, 27198), (184, 27255), (186, 27267), (200, 27309), (202, 27315), (219, 27396), (220, 27402), (223, 27426), (227, 27441), (228, 27444), (235, 27477), (239, 27492), (241, 27504), (254, 27555), (256, 27561), (258, 27567), (282, 27672), (286, 27690), (287, 27693), (303, 27759), (307, 27780), (315, 27828), (324, 27867), (328, 27888),

Gene: Wallhey\_28 Start: 25790, Stop: 27223, Start Num: 25

Candidate Starts for Wallhey\_28:

(Start: 25 @25790 has 339 MA's), (35, 25847), (40, 25871), (45, 25895), (61, 25970), (108, 26213), (110, 26222), (114, 26243), (119, 26264), (121, 26273), (133, 26336), (153, 26429), (154, 26432), (163, 26486), (166, 26504), (198, 26636), (210, 26684), (219, 26726), (220, 26732), (221, 26735), (228, 26774), (230, 26792), (235, 26807), (236, 26813), (239, 26822), (242, 26837), (253, 26882), (277, 26987), (287, 27023), (302, 27083), (304, 27092), (309, 27119), (316, 27161), (321, 27182),

Gene: Waterdiva\_29 Start: 26219, Stop: 27652, Start Num: 25

Candidate Starts for Waterdiva\_29:

(Start: 25 @26219 has 339 MA's), (35, 26276), (40, 26300), (45, 26324), (61, 26399), (101, 26615), (108, 26642), (110, 26651), (114, 26672), (119, 26693), (121, 26702), (133, 26765), (153, 26858), (163, 26915), (166, 26933), (198, 27065), (210, 27113), (219, 27155), (220, 27161), (221, 27164), (228, 27203), (235, 27236), (236, 27242), (239, 27251), (242, 27266), (253, 27311), (277, 27416), (287, 27452), (302, 27512), (304, 27521), (316, 27590),

Gene: Weher20\_29 Start: 26218, Stop: 27651, Start Num: 25

Candidate Starts for Weher20\_29:

(Start: 25 @26218 has 339 MA's), (35, 26275), (40, 26299), (45, 26323), (61, 26398), (108, 26641), (110, 26650), (114, 26671), (119, 26692), (121, 26701), (133, 26764), (153, 26857), (163, 26914), (166, 26932), (210, 27112), (219, 27154), (220, 27160), (221, 27163), (228, 27202), (230, 27220), (235, 27235), (236, 27241), (239, 27250), (242, 27265), (253, 27310), (277, 27415), (287, 27451), (302, 27511), (304, 27520), (309, 27547), (316, 27589), (321, 27610),

Gene: West99\_30 Start: 27603, Stop: 29039, Start Num: 26

Candidate Starts for West99\_30:

(Start: 26 @27603 has 105 MA's), (32, 27636), (35, 27660), (36, 27663), (40, 27684), (44, 27705), (51, 27738), (60, 27783), (63, 27792), (77, 27855), (109, 28035), (110, 28038), (114, 28059), (120, 28083), (121, 28089), (123, 28107), (130, 28137), (131, 28140), (134, 28155), (136, 28161), (150, 28230), (158, 28284), (163, 28302), (166, 28320), (167, 28323), (172, 28347), (184, 28401), (195, 28440), (201, 28458), (206, 28479), (218, 28536), (219, 28542), (221, 28551), (230, 28608), (244, 28659), (247, 28668), (254, 28701), (257, 28710), (271, 28776), (282, 28818), (287, 28839), (290, 28851), (292, 28869), (304, 28908), (315, 28974), (316, 28977), (322, 29007),

Gene: Wilde\_32 Start: 25388, Stop: 26605, Start Num: 27

Candidate Starts for Wilde\_32:

(Start: 27 @25388 has 38 MA's), (40, 25466), (55, 25508), (104, 25718), (107, 25730), (112, 25754), (123, 25814), (132, 25841), (159, 25961), (165, 25976), (191, 26096), (280, 26396), (281, 26399), (290, 26432), (311, 26513), (313, 26537), (318, 26552),

Gene: Windsor\_28 Start: 25917, Stop: 27350, Start Num: 25

Candidate Starts for Windsor\_28:

(Start: 25 @25917 has 339 MA's), (35, 25974), (40, 25998), (45, 26022), (61, 26097), (101, 26313), (108, 26340), (110, 26349), (114, 26370), (119, 26391), (121, 26400), (133, 26463), (153, 26556), (166, 26631), (198, 26763), (210, 26811), (219, 26853), (220, 26859), (221, 26862), (228, 26901), (230, 26919), (235, 26934), (236, 26940), (239, 26949), (242, 26964), (253, 27009), (277, 27114), (287, 27150), (302, 27210), (304, 27219), (309, 27246), (316, 27288), (321, 27309),

Gene: Wooper\_27 Start: 25493, Stop: 27019, Start Num: 9

Candidate Starts for Wooper\_27:

(Start: 9 @25493 has 19 MA's), (14, 25526), (16, 25550), (18, 25553), (21, 25574), (24, 25589), (Start: 27 @25595 has 38 MA's), (Start: 28 @25598 has 1 MA's), (54, 25736), (66, 25787), (93, 25943), (108, 26009), (117, 26048), (132, 26123), (153, 26225), (163, 26282), (183, 26372), (184, 26381), (186, 26393), (200, 26435), (205, 26456), (219, 26522), (220, 26528), (227, 26567), (228, 26570), (235, 26603), (241, 26630), (244, 26639), (247, 26648), (258, 26693), (265, 26729), (269, 26741), (279, 26789), (302, 26879), (315, 26954), (322, 26987),

Gene: Xavier\_28 Start: 25940, Stop: 27373, Start Num: 25

Candidate Starts for Xavier\_28:

(Start: 25 @25940 has 339 MA's), (35, 25997), (40, 26021), (45, 26045), (61, 26120), (101, 26336), (108, 26363), (110, 26372), (114, 26393), (119, 26414), (121, 26423), (133, 26486), (153, 26579), (163, 26636), (166, 26654), (198, 26786), (210, 26834), (219, 26876), (220, 26882), (221, 26885), (228, 26924), (235, 26957), (236, 26963), (239, 26972), (242, 26987), (253, 27032), (277, 27137), (287, 27173), (302, 27233), (304, 27242), (316, 27311),

Gene: Xincheng\_25 Start: 25918, Stop: 27351, Start Num: 25

Candidate Starts for Xincheng\_25:

(Start: 25 @25918 has 339 MA's), (32, 25951), (35, 25975), (36, 25978), (41, 26008), (51, 26050), (53, 26056), (56, 26071), (61, 26098), (70, 26131), (77, 26173), (79, 26200), (101, 26314), (109, 26347), (110, 26350), (111, 26356), (119, 26392), (121, 26401), (131, 26452), (160, 26605), (165, 26623),

(166, 26632), (167, 26635), (171, 26656), (175, 26674), (183, 26704), (184, 26713), (186, 26725), (200, 26767), (202, 26773), (219, 26854), (220, 26860), (223, 26884), (227, 26899), (228, 26902), (235, 26935), (239, 26950), (241, 26962), (254, 27013), (258, 27025), (282, 27130), (286, 27148), (287, 27151), (303, 27217), (307, 27238), (315, 27286), (322, 27319), (324, 27325), (328, 27346),

Gene: Xkcd426\_27 Start: 27567, Stop: 28907, Start Num: 27

Candidate Starts for Xkcd426\_27:

(12, 27492), (Start: 27 @27567 has 38 MA's), (39, 27642), (92, 27864), (102, 27912), (104, 27918), (114, 27966), (117, 27975), (119, 27987), (127, 28032), (134, 28062), (145, 28119), (165, 28203), (168, 28218), (194, 28323), (232, 28413), (238, 28437), (262, 28527), (266, 28533), (276, 28578), (288, 28626), (292, 28653), (311, 28728), (329, 28827), (333, 28875), (334, 28887),

Gene: YDN12\_23 Start: 20231, Stop: 21568, Start Num: 27

Candidate Starts for YDN12\_23:

(4, 20018), (6, 20066), (7, 20081), (8, 20093), (Start: 27 @20231 has 38 MA's), (39, 20306), (71, 20405), (84, 20477), (89, 20513), (92, 20525), (104, 20579), (106, 20588), (114, 20627), (127, 20693), (165, 20861), (168, 20876), (176, 20915), (178, 20924), (185, 20957), (213, 21032), (232, 21071), (247, 21125), (250, 21137), (251, 21149), (276, 21236), (297, 21326), (310, 21383), (311, 21386), (324, 21452), (334, 21548),

Gene: Yago84\_25 Start: 24069, Stop: 25598, Start Num: 9

Candidate Starts for Yago84\_25:

(Start: 9 @24069 has 19 MA's), (14, 24102), (59, 24333), (77, 24417), (110, 24597), (115, 24621), (119, 24639), (121, 24648), (130, 24696), (131, 24699), (136, 24720), (163, 24861), (165, 24870), (166, 24879), (167, 24882), (171, 24903), (183, 24951), (186, 24972), (219, 25101), (220, 25107), (228, 25149), (235, 25182), (236, 25188), (239, 25197), (256, 25266), (269, 25320), (279, 25368), (316, 25536),

Gene: Yahalom\_29 Start: 26159, Stop: 27589, Start Num: 26

Candidate Starts for Yahalom\_29:

(Start: 26 @26159 has 105 MA's), (35, 26216), (40, 26240), (41, 26249), (61, 26336), (89, 26486), (93, 26513), (110, 26588), (117, 26618), (121, 26639), (123, 26657), (136, 26711), (143, 26744), (167, 26873), (184, 26951), (186, 26963), (193, 26984), (197, 26999), (202, 27011), (219, 27092), (220, 27098), (229, 27146), (230, 27158), (241, 27200), (247, 27218), (254, 27251), (265, 27299), (279, 27359), (283, 27374), (287, 27389), (288, 27392), (316, 27527), (322, 27557),

Gene: Yeshua\_27 Start: 25470, Stop: 26996, Start Num: 9

Candidate Starts for Yeshua\_27:

(Start: 9 @25470 has 19 MA's), (14, 25503), (16, 25527), (18, 25530), (21, 25551), (24, 25566), (Start: 27 @25572 has 38 MA's), (Start: 28 @25575 has 1 MA's), (54, 25713), (66, 25764), (93, 25920), (108, 25986), (117, 26025), (132, 26100), (153, 26202), (163, 26259), (183, 26349), (184, 26358), (186, 26370), (200, 26412), (205, 26433), (219, 26499), (220, 26505), (227, 26544), (228, 26547), (235, 26580), (241, 26607), (244, 26616), (247, 26625), (258, 26670), (265, 26706), (269, 26718), (279, 26766), (302, 26856), (315, 26931), (322, 26964),

Gene: Yinz\_29 Start: 26182, Stop: 27612, Start Num: 26

Candidate Starts for Yinz\_29:

(Start: 26 @26182 has 105 MA's), (35, 26239), (40, 26263), (41, 26272), (61, 26359), (89, 26509), (93, 26536), (108, 26602), (110, 26611), (117, 26641), (121, 26662), (123, 26680), (136, 26734), (167, 26896), (184, 26974), (186, 26986), (193, 27007), (197, 27022), (202, 27034), (219, 27115), (220, 27121), (229, 27169), (230, 27181), (241, 27223), (247, 27241), (254, 27274), (265, 27322), (279, 27382), (283, 27397), (287, 27412), (288, 27415), (316, 27550), (322, 27580),

Gene: Yoshand\_29 Start: 26226, Stop: 27659, Start Num: 25

Candidate Starts for Yoshand\_29:

(Start: 25 @26226 has 339 MA's), (35, 26283), (40, 26307), (45, 26331), (61, 26406), (101, 26622), (108, 26649), (110, 26658), (114, 26679), (119, 26700), (121, 26709), (133, 26772), (153, 26865), (163, 26922), (166, 26940), (198, 27072), (210, 27120), (219, 27162), (220, 27168), (221, 27171), (228, 27210), (235, 27243), (236, 27249), (239, 27258), (242, 27273), (253, 27318), (277, 27423), (287, 27459), (302, 27519), (304, 27528), (316, 27597),

Gene: YouGoGlencoco\_29 Start: 26221, Stop: 27654, Start Num: 25

Candidate Starts for YouGoGlencoco\_29:

(Start: 25 @26221 has 339 MA's), (35, 26278), (40, 26302), (45, 26326), (61, 26401), (101, 26617), (108, 26644), (110, 26653), (114, 26674), (119, 26695), (121, 26704), (133, 26767), (153, 26860), (163, 26917), (166, 26935), (198, 27067), (210, 27115), (219, 27157), (220, 27163), (221, 27166), (228, 27205), (235, 27238), (236, 27244), (239, 27253), (242, 27268), (253, 27313), (277, 27418), (287, 27454), (302, 27514), (304, 27523), (316, 27592),

Gene: Zaider\_30 Start: 26451, Stop: 27884, Start Num: 25

Candidate Starts for Zaider\_30:

(Start: 25 @26451 has 339 MA's), (35, 26508), (40, 26532), (45, 26556), (61, 26631), (101, 26847), (108, 26874), (110, 26883), (114, 26904), (119, 26925), (121, 26934), (133, 26997), (153, 27090), (163, 27147), (166, 27165), (198, 27297), (210, 27345), (219, 27387), (220, 27393), (221, 27396), (228, 27435), (235, 27468), (236, 27474), (239, 27483), (242, 27498), (253, 27543), (277, 27648), (287, 27684), (302, 27744), (304, 27753), (316, 27822),

Gene: Zelda\_29 Start: 26217, Stop: 27650, Start Num: 25

Candidate Starts for Zelda\_29:

(Start: 25 @26217 has 339 MA's), (35, 26274), (40, 26298), (45, 26322), (61, 26397), (101, 26613), (108, 26640), (110, 26649), (114, 26670), (119, 26691), (121, 26700), (133, 26763), (153, 26856), (163, 26913), (166, 26931), (198, 27063), (210, 27111), (219, 27153), (220, 27159), (221, 27162), (228, 27201), (235, 27234), (236, 27240), (239, 27249), (242, 27264), (253, 27309), (277, 27414), (287, 27450), (302, 27510), (304, 27519), (316, 27588),

Gene: Zemanar\_27 Start: 26460, Stop: 27893, Start Num: 25

Candidate Starts for Zemanar\_27:

(Start: 25 @26460 has 339 MA's), (32, 26493), (35, 26517), (36, 26520), (41, 26550), (51, 26592), (53, 26598), (61, 26640), (70, 26673), (77, 26715), (101, 26856), (110, 26892), (111, 26898), (119, 26934), (121, 26943), (131, 26994), (139, 27036), (160, 27147), (165, 27165), (166, 27174), (167, 27177), (171, 27198), (184, 27255), (186, 27267), (200, 27309), (202, 27315), (219, 27396), (220, 27402), (223, 27426), (228, 27444), (235, 27477), (239, 27492), (241, 27504), (254, 27555), (258, 27567), (286, 27690), (287, 27693), (303, 27759), (307, 27780), (315, 27828), (324, 27867), (328, 27888),

Gene: Zenteno07\_32 Start: 26206, Stop: 27639, Start Num: 25

Candidate Starts for Zenteno07\_32:

(Start: 25 @26206 has 339 MA's), (36, 26266), (40, 26287), (45, 26311), (52, 26341), (61, 26386), (89, 26539), (109, 26635), (128, 26725), (131, 26740), (163, 26902), (174, 26956), (202, 27061), (203, 27064), (219, 27142), (227, 27187), (239, 27238), (253, 27298), (304, 27508), (316, 27577), (319, 27592), (324, 27613),

Gene: Zonia\_29 Start: 26240, Stop: 27673, Start Num: 25

Candidate Starts for Zonia\_29:

(Start: 25 @26240 has 339 MA's), (35, 26297), (40, 26321), (45, 26345), (61, 26420), (101, 26636), (108, 26663), (110, 26672), (114, 26693), (119, 26714), (121, 26723), (133, 26786), (153, 26879), (163, 26936), (166, 26954), (198, 27086), (210, 27134), (219, 27176), (220, 27182), (221, 27185),

(228, 27224), (235, 27257), (236, 27263), (239, 27272), (242, 27287), (253, 27332), (277, 27437),  
(287, 27473), (302, 27533), (304, 27542), (316, 27611),