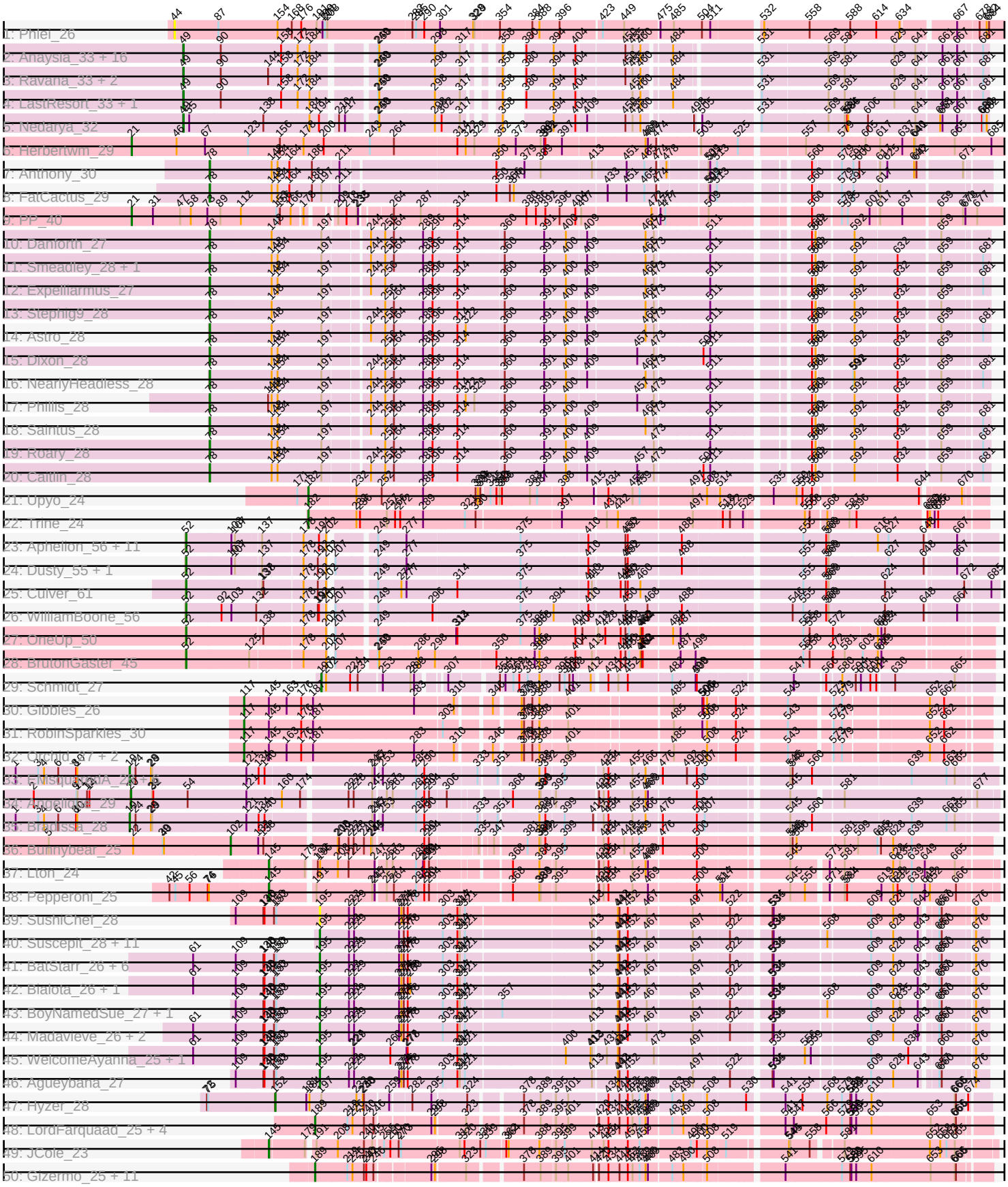
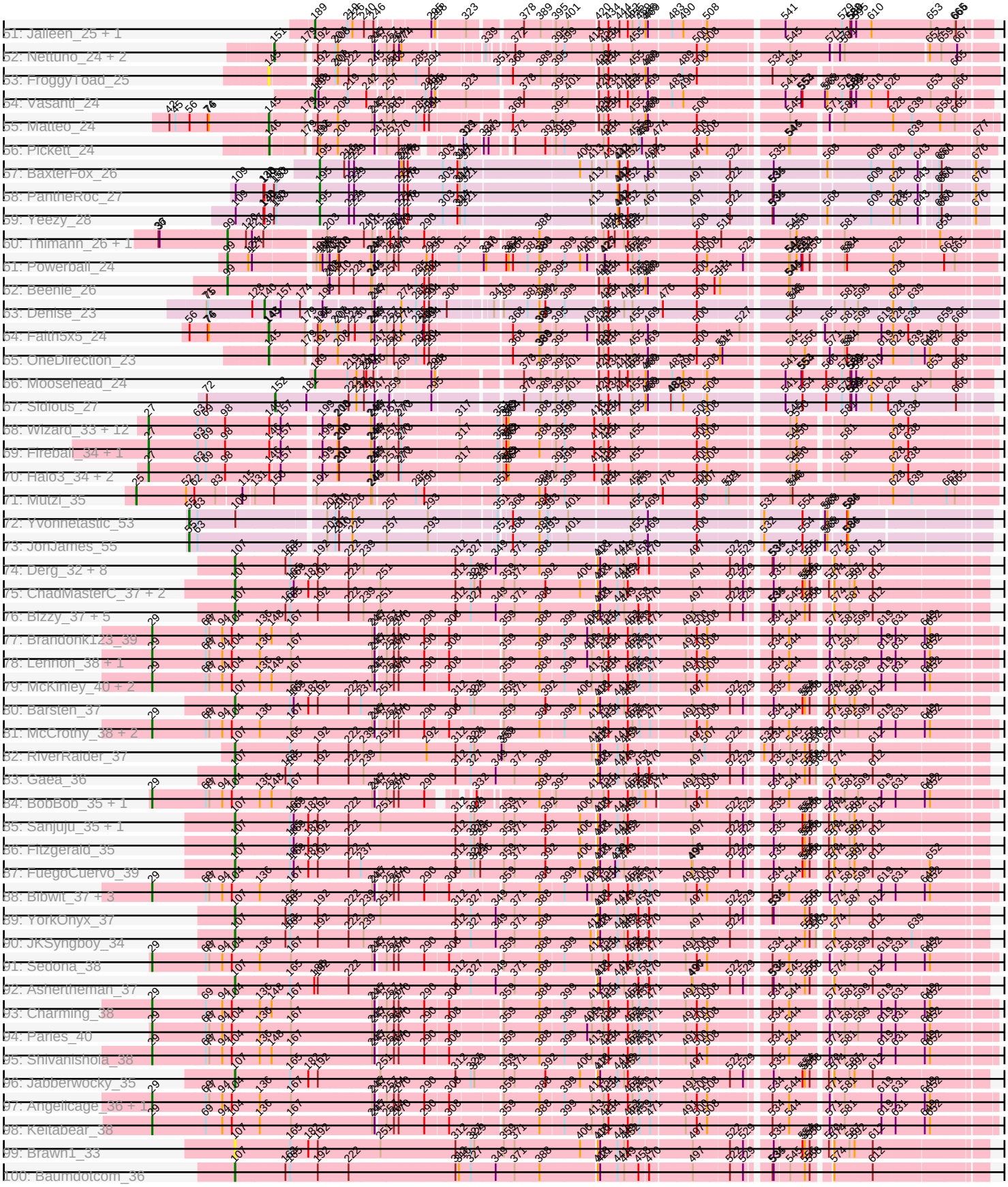
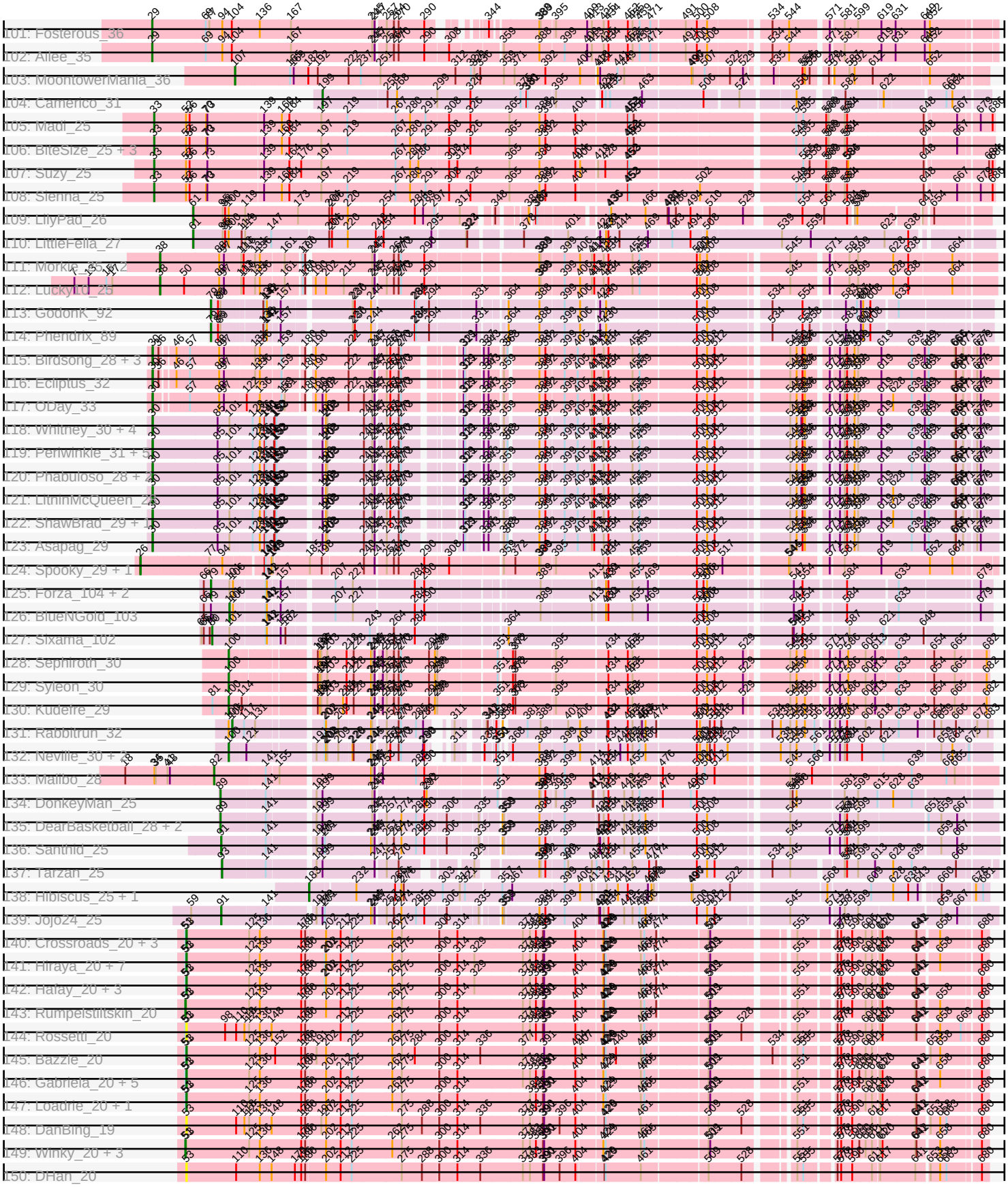
Pham 339243


1: Phlei_26
2: Anaysia_33 + 16
3: Ravana_33 + 2
4: LastResort_33 + 1
5: Nedarya_32
6: Herbertwm_29
7: Anthony_30
8: FatCactus_29
9: PP_40
10: Damforth_27
11: Smeadley_28 + 1
12: Expelliarmus_27
13: Stephig9_28
14: Astro_28
15: Dixon_28
16: NearlyHeadless_28
17: Phillis_28
18: Saintus_28
19: Roary_28
20: Caitlin_28
21: Opyo_24
22: Trine_24
23: Aphelion_56 + 11
24: Dusty_55 + 1
25: Culver_61
26: WilliamBoone_56
27: OneUp_50
28: BrutonGaster_45
29: Schmidt_27
30: Gibbles_26
31: RobinSparkles_30
32: Orchid_37 + 2
33: EMisquitaA_27 + 1
34: Angalicious_29
35: Brandissa_28
36: Bunnybear_25
37: Lion_24
38: Pepperoni_25
39: SushiChef_28
40: Suscepit_28 + 11
41: BatStarr_26 + 6
42: Biatota_26 + 1
43: BoyNamedSue_27 + 1
44: Madavieve_26 + 2
45: WelcomeAyanna_25 + 1
46: Agueybana_27
47: Hyzer_28
48: LordFarquaad_25 + 4
49: JCole_23
50: Gizermo_25 + 11

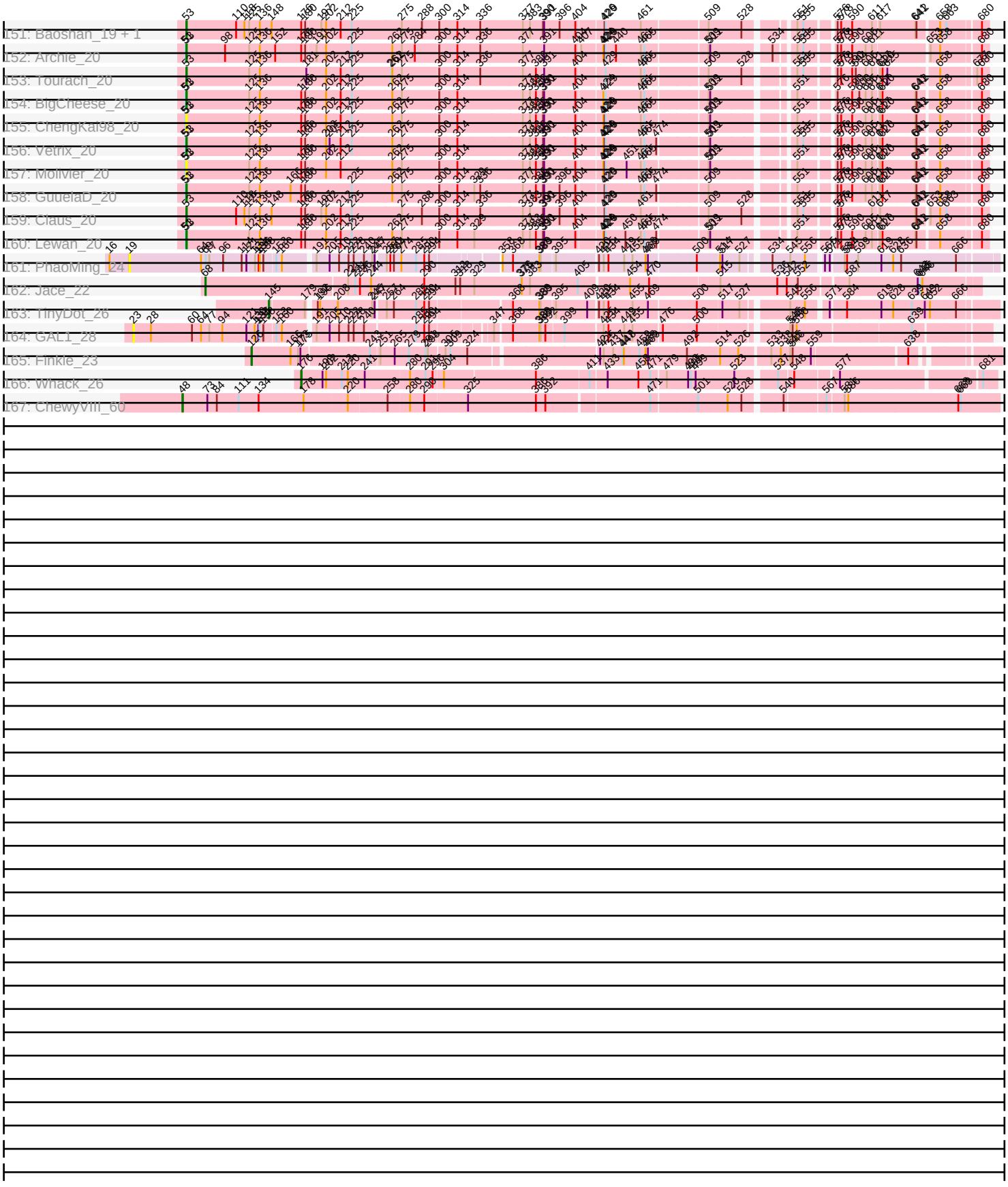
Pham 339243


51: Jalleen_25 + 1
52: Neptuno_24 + 2
53: FroggyToad_25
54: Vasanti_24
55: Matteo_24
56: Pickett_24
57: BaxterFox_26
58: PantheRoc_27
59: Yeezy_28
60: Thimann_26 + 1
61: Powerball_24
62: Beenie_26
63: Denise_23
64: Faith5x5_24
65: OneDirection_23
66: Moosehead_24
67: Sidious_27
68: Wizard_33 + 12
69: Fireball_34 + 1
70: Halo3_34 + 2
71: Mutzi_35
72: YVonnetastic_53
73: JonJames_55
74: Derg_32 + 8
75: ChadMasterC_37 + 2
76: Bizzy_37 + 5
77: Brandonk123_39
78: Lennon_38 + 1
79: McKinley_40 + 2
80: Barsten_37
81: McCrothy_38 + 2
82: RiverRaider_37
83: Gaea_36
84: BobBob_35 + 1
85: Sanjuju_35 + 1
86: Fitzgerald_35
87: FuegoCuervo_39
88: Bibwit_37 + 3
89: YorkOnyx_37
90: JKSyngboy_34
91: Sedona_38
92: Ashertheman_37
93: Charming_38
94: Paries_40
95: Shivanishola_38
96: Jabberwocky_35
97: Angelicage_36 + 1
98: Keitabear_38
99: Brawn1_33
100: Baumdotcom_36

Pham 339243



Pham 339243


151: Baoshan_19 + 1
152: Archie_20
153: Tourach_20
154: BigCheese_20
155: ChengKai98_20
156: Vetrix_20
157: Molivier_20
158: GuuelaD_20
159: Claus_20
160: Lewan_20
161: PhaoMing_24
162: Jace_22
163: TinyDot_26
164: GAL1_28
165: Finkie_23
166: Whack_26
167: ChewyVim_60

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 339243 Report

This analysis was run 11/14/26 on database version 672.

Pham number 339243 has 340 members, 31 are drafts.

Phages represented in each track:
• Track 1 : Phlei_26
• Track 2 : Anaysia_33, Switzerland_33, Soups_33, Warrior24_33, MinecraftSteve_34, Boohoo_33, Remus_33, KatherineG_33, Rosalind_33, Nebulosus_33, ShayRa_34, Battleship_34, JSwag_33, Strosahl_33, Looper_34, DekHockey33_33, Oofda_33
• Track 3 : Ravana_33, Waits_33, Epsocamisio_33
• Track 4 : LastResort_33, ReMo_33
• Track 5 : Nedarya_32
• Track 6 : Herbertwm_29
• Track 7 : Anthony_30
• Track 8 : FatCactus_29
• Track 9 : PP_40
• Track 10 : Danforth_27
• Track 11 : Smeadley_28, Groundhog_27
• Track 12 : Expelliarmus_27
• Track 13 : Stephig9_28
• Track 14 : Astro_28
• Track 15 : Dixon_28
• Track 16 : NearlyHeadless_28
• Track 17 : Phillis_28
• Track 18 : Saintus_28
• Track 19 : Roary_28
• Track 20 : Caitlin_28
• Track 21 : Upyo_24
• Track 22 : Trine_24
• Track 23 : Aphelion_56, ClubL_56, Engineer_58, Lozinak_57, Geeche_55, Bachita_58, Miskis_54, Norvs_57, PhinkBoden_56, Cucurbita_58, Smoothie_58, Toniann_56
• Track 24 : Dusty_55, Abscondus_55
• Track 25 : Culver_61
• Track 26 : WilliamBoone_56
• Track 27 : OneUp_50
• Track 28 : BrutonGaster_45
• Track 29 : Schmidt_27
• Track 30 : Gibbles_26
• Track 31 : RobinSparkles_30
• Track 32 : Orchid_27, Kampe_27, PatrickStar_27

• Track 33 : EMsquaredA_28, Floral_28, Pollux_28, BritBrat_28, Marteena_28, EnalisNailo_28, Lilas_28
• Track 34 : Angelique_29
• Track 35 : Bradissa_28
• Track 36 : Bunnybear_25
• Track 37 : Lton_24
• Track 38 : Pepperoni_25
• Track 39 : SushiChef_28
• Track 40 : Suscepit_28, Antonio_28, Zameen_28, Dillpickles_29, Neobush_28, Polly_25, Eudoria_28, Maridalia_27, Trumpet_28, Tayonia_28, Manasvini_28, Kita_28
• Track 41 : BatStarr_26, Nymphadora_26, Herod_26, TimTam_26, Bosnia_26, Hugley_26, Eviarto_26
• Track 42 : Bialota_26, Zirinka_26
• Track 43 : BoyNamedSue_27, AlumE_27
• Track 44 : Madavieve_26, Madeline_26, Ohgeesy_26
• Track 45 : WelcomeAyanna_25, ThankyouJordi_25
• Track 46 : Agueybana_27
• Track 47 : Hyzer_28
• Track 48 : LordFarquaad_25, Attis_25, Yeet412_25, Bjanes7_25, SoilAssassin_25
• Track 49 : JCole_23
• Track 50 : Gizermo_25, Haley23_25, GemG_25, Savage_25, Clap_25, Cynthia_25, Ebert_25, Sproutie_25, Yinzer_25, Mocha12_25, Whiteclaw_25, TuertoX_25
• Track 51 : Jalleen_25, Sahara_24
• Track 52 : Nettuno_24, Lamberg_24, EdnaMode_24
• Track 53 : FroggyToad_25
• Track 54 : Vasanti_24
• Track 55 : Matteo_24
• Track 56 : Pickett_24
• Track 57 : BaxterFox_26
• Track 58 : PantheRoc_27
• Track 59 : Yeezy_28
• Track 60 : Thimann_26, Suerte_24
• Track 61 : Powerball_24
• Track 62 : Beenie_26
• Track 63 : Denise_23
• Track 64 : Faith5x5_24
• Track 65 : OneDirection_23
• Track 66 : Moosehead_24
• Track 67 : Sidious_27
• Track 68 : Wizard_33, SmokingBunny_33, Gezellig_33, PullumCavea_33, Jambalaya_33, Sendy_34, KimmyK_35, CherryCola_36, Phlop_33, Valary_36, Nubi_33, Togo_33, Savbucketdawg_33
• Track 69 : Fireball_34, TillyBobJoe_33
• Track 70 : Halo3_34, Evamon_33, Salvador_33
• Track 71 : Mutzi_35
• Track 72 : Yvonnetastic_53
• Track 73 : JonJames_55
• Track 74 : Derg_32, LilHam_34, Ribeye_37, Baddon_36, Stichling_34, Kwobi_38, StorminNorm_36, Tycho_36, SchottB_35
• Track 75 : ChadMasterC_37, Kewpiedoll_36, Stultus_35
• Track 76 : Bizzy_37, Saronaya_36, Flatwoods_37, Tangerine_36, Kroos_37, Gustavo_36

• Track 77 : Brandonk123_39
• Track 78 : Lennon_38, Sitar_38
• Track 79 : McKinley_40, Vivi2_40, Tangent_38
• Track 80 : Barsten_37
• Track 81 : McCrothy_38, Nordenberg_32, Love_41
• Track 82 : RiverRaider_37
• Track 83 : Gaea_36
• Track 84 : BobBob_35, Rofo_38
• Track 85 : Sanjuju_35, Geodirt_35
• Track 86 : Fitzgerald_35
• Track 87 : FuegoCuervo_39
• Track 88 : Bibwit_37, Galadriel_38, Kamashten_36, Thing3_36
• Track 89 : YorkOnyx_37
• Track 90 : JKSyngboy_34
• Track 91 : Sedona_38
• Track 92 : Ashertheman_37
• Track 93 : Charming_38
• Track 94 : Paries_40
• Track 95 : Shivanishola_38
• Track 96 : Jabberwocky_35
• Track 97 : Angelicage_36, Affeca_36
• Track 98 : Keitabear_38
• Track 99 : Brawn1_33
• Track 100 : Baumdotcom_36
• Track 101 : Fosterous_36
• Track 102 : Ailee_35
• Track 103 : MoontowerMania_36
• Track 104 : Camerico_31
• Track 105 : Madi_25
• Track 106 : BiteSize_25, Djokovic_25, Terapin_25, Beyoncage_25
• Track 107 : Suzy_25
• Track 108 : Sienna_25
• Track 109 : LilyPad_26
• Track 110 : LittleFella_27
• Track 111 : Morkie_25, InLimbo_26, PhorbesPhlower_25
• Track 112 : Lucky10_25
• Track 113 : GodonK_92
• Track 114 : Phendrix_89
• Track 115 : Birdsong_28, Kuwabara_28, BearBQ_28, MortyNRick_28
• Track 116 : Ecliptus_32
• Track 117 : ODay_33
• Track 118 : Whitney_30, Kamaru_29, Getalong_30, Budski_29, Holliday_29
• Track 119 : Periwinkle_31, Phistory_30, Horus_29, Frickyeah_28, Apricot_28, Leroy_29
• Track 120 : Phabuloso_28, Lutum_29, Kenna_28
• Track 121 : LitninMcQueen_28
• Track 122 : ShawBrad_29, Crater_27
• Track 123 : Asapag_29
• Track 124 : Spooky_29, Squiddly_31
• Track 125 : Forza_104, Boopy_104, Mareelih_102
• Track 126 : BlueNGold_103
• Track 127 : Sixama_102
• Track 128 : Sephiroth_30

• Track 129 : Syleon_30
• Track 130 : Kudefre_29
• Track 131 : Rabbitrun_32
• Track 132 : Neville_30, LilJank_30, Trax_30
• Track 133 : Malibo_28
• Track 134 : DonkeyMan_25
• Track 135 : DearBasketball_28, DinoNuggs_26, Reyja_26
• Track 136 : Santhid_25
• Track 137 : Tarzan_25
• Track 138 : Hibiscus_25, Heinz_25
• Track 139 : Jojo24_25
• Track 140 : Crossroads_20, Zakai_20, MkaliMitinis3_20, Finemlucis_20
• Track 141 : Hiraya_20, LilDestine_20, Nicholasp3_20, Wilder_20, Kahlid_20, Underpass_20, Lynnae_20, Gardann_20
• Track 142 : Hafay_20, Wigglewiggle_20, Soap141_20, Sarshaun_20
• Track 143 : Rumpelstiltskin_20
• Track 144 : Rossetti_20
• Track 145 : Bazzle_20
• Track 146 : Gabriela_20, SoJulia_20, Netyap_20, BobsGarage_20, Miley16_20, DrSeegs_20
• Track 147 : Loadrie_20, OverPar_20
• Track 148 : DanBing_19
• Track 149 : Winky_20, Breezona_20, Faith1_20, Itos_20
• Track 150 : DHan_20
• Track 151 : Baoshan_19, ZhongYanYuan_19
• Track 152 : Archie_20
• Track 153 : Tourach_20
• Track 154 : BigCheese_20
• Track 155 : ChengKai98_20
• Track 156 : Vetrix_20
• Track 157 : Molivier_20
• Track 158 : GuuelaD_20
• Track 159 : Claus_20
• Track 160 : Lewan_20
• Track 161 : PhaoMing_24
• Track 162 : Jace_22
• Track 163 : TinyDot_26
• Track 164 : GAL1_28
• Track 165 : Finkle_23
• Track 166 : Whack_26
• Track 167 : ChewyVIII_60

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

The start number called the most often in the published annotations is 107, it was called in 30 of the 309 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ashertheman_37, Baddon_36, Barsten_37, Baumdotcom_36, Bizzy_37, Brawn1_33, ChadMasterC_37, Derg_32, Fitzgerald_35, Flatwoods_37,

FuegoCuervo_39, Gaea_36, Geodirt_35, Gustavo_36, JKSyngboy_34, Jabberwocky_35, Kewpiedoll_36, Kroos_37, Kwobi_38, LilHam_34, MoontowerMania_36, Ribeye_37, RiverRaider_37, Sanjuju_35, Saronaya_36, SchottB_35, Stichling_34, StorminNorm_36, Stultus_35, Tangerine_36, Tycho_36, YorkOnyx_37,

Genes that have the "Most Annotated" start but do not call it:
• Abscondus_55, Aphelion_56, Bachita_58, ClubL_56, Cucurbita_58, Dusty_55, Engineer_58, Geeche_55, Lozinak_57, Miskis_54, Norvs_57, PhinkBoden_56, Smoothie_58, Toniann_56,

Genes that do not have the "Most Annotated" start:
• Affeca_36, Agueybana_27, Ailee_35, AlumE_27, Anaysia_33, Angelicage_36, Angelique_29, Anthony_30, Antonio_28, Apricot_28, Archie_20, Asapag_29, Astro_28, Attis_25, Baoshan_19, BatStarr_26, Battleship_34, BaxterFox_26, Bazzle_20, BearBQ_28, Beenie_26, Beyoncage_25, Bialota_26, Bibwit_37, BigCheese_20, Birdsong_28, BiteSize_25, Bjanes7_25, BlueNGold_103, BobBob_35, BobsGarage_20, Boohoo_33, Boopy_104, Bosnia_26, BoyNamedSue_27, Bradissa_28, Brandonk123_39, Breezona_20, BritBrat_28, BrutonGaster_45, Budski_29, Bunnybear_25, Caitlin_28, Camerico_31, Charming_38, ChengKai98_20, CherryCola_36, ChewyVIII_60, Clap_25, Claus_20, Crater_27, Crossroads_20, Culver_61, Cynthia_25, DHan_20, DanBing_19, Danforth_27, DearBasketball_28, DekHockey33_33, Denise_23, Dillpickles_29, DinoNuggs_26, Dixon_28, Djokovic_25, DonkeyMan_25, DrSeegs_20, EMsquaredA_28, Ebert_25, Ecliptus_32, EdnaMode_24, EnalisNailo_28, Epsocamisio_33, Eudoria_28, Evamon_33, Eviarto_26, Expelliarmus_27, Faith1_20, Faith5x5_24, FatCactus_29, Finemlucis_20, Finkle_23, Fireball_34, Floral_28, Forza_104, Fosterous_36, Frickyeah_28, FroggyToad_25, GAL1_28, Gabriela_20, Galadriel_38, Gardann_20, GemG_25, Getalong_30, Gezellig_33, Gibbles_26, Gizermo_25, GodonK_92, Groundhog_27, GuuelaD_20, Hafay_20, Haley23_25, Halo3_34, Heinz_25, Herbertwm_29, Herod_26, Hibiscus_25, Hiraya_20, Holliday_29, Horus_29, Hugley_26, Hyzer_28, InLimbo_26, Itos_20, JCole_23, JSwag_33, Jace_22, Jalleen_25, Jambalaya_33, Jojo24_25, JonJames_55, Kahlid_20, Kamaru_29, Kamashten_36, Kampe_27, KatherineG_33, Keitabear_38, Kenna_28, KimmyK_35, Kita_28, Kudefre_29, Kuwabara_28, Lamberg_24, LastResort_33, Lennon_38, Leroy_29, Lewan_20, LilDestine_20, LilJank_30, Lilas_28, LilyPad_26, LitninMcQueen_28, LittleFella_27, Loadrie_20, Looper_34, LordFarquaad_25, Love_41, Lton_24, Lucky10_25, Lutum_29, Lynnae_20, Madavieve_26, Madeline_26, Madi_25, Malibo_28, Manasvini_28, Mareelih_102, Maridalia_27, Marteena_28, Matteo_24, McCrothy_38, McKinley_40, Miley16_20, MinecraftSteve_34, MkaliMitinis3_20, Mocha12_25, Molivier_20, Moosehead_24, Morkie_25, MortyNRick_28, Mutzi_35, NearlyHeadless_28, Nebulosus_33, Nedarya_32, Neobush_28, Nettuno_24, Netyap_20, Neville_30, Nicholasp3_20, Nordenberg_32, Nubi_33, Nymphadora_26, ODay_33, Ohgeesy_26, OneDirection_23, OneUp_50, Oofda_33, Orchid_27, OverPar_20, PP_40, PantheRoc_27, Paries_40, PatrickStar_27, Pepperoni_25, Periwinkle_31, Phabuloso_28, PhaoMing_24, Phendrix_89, Phillis_28, Phistory_30, Phlei_26, Phlop_33, PhorbesPhlower_25, Pickett_24, Pollux_28, Polly_25, Powerball_24, PullumCavea_33, Rabbitrun_32, Ravana_33, ReMo_33, Remus_33, Reyja_26, Roary_28, RobinSparkles_30, Rofo_38, Rosalind_33, Rossetti_20, Rumpelstiltskin_20, Sahara_24, Saintus_28, Salvador_33, Santhid_25, Sarshaun_20, Savage_25, Savbucketdawg_33, Schmidt_27, Sedona_38, Sendy_34, Sephiroth_30, ShawBrad_29, ShayRa_34, Shivanishola_38, Sidious_27, Sienna_25, Sitar_38,

Sixama_102, Smeadley_28, SmokingBunny_33, SoJulia_20, Soap141_20, SoilAssassin_25, Soups_33, Spooky_29, Sproutie_25, Squiddly_31, Stephig9_28, Strosahl_33, Suerte_24, Suscepit_28, SushiChef_28, Suzy_25, Switzerland_33, Syleon_30, Tangent_38, Tarzan_25, Tayonia_28, Terapin_25, ThankyouJordi_25, Thimann_26, Thing3_36, TillyBobJoe_33, TimTam_26, TinyDot_26, Togo_33, Tourach_20, Trax_30, Trine_24, Trumpet_28, TuertoX_25, Underpass_20, Upyo_24, Valary_36, Vasanti_24, Vetrix_20, Vivi2_40, Waits_33, Warrior24_33, WelcomeAyanna_25, Whack_26, Whiteclaw_25, Whitney_30, Wigglewiggle_20, Wilder_20, WilliamBoone_56, Winky_20, Wizard_33, Yeet412_25, Yeezy_28, Yinzer_25, Yvonnetastic_53, Zakai_20, Zameen_28, ZhongYanYuan_19, Zirinka_26,

Summary by start number:

Start 19:
• Found in 9 of 340 (2.6%) of genes in pham
• Manual Annotations of this start: 8 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bradissa_28 (CY1), BritBrat_28 (CY2), EMsquaredA_28 (CY1), EnalisNailo_28 (CY1), Floral_28 (CY1), Lilas_28 (CY1), Marteena_28 (CY1), PhaoMing_24 (UNK), Pollux_28 (CY1),

Start 20:
• Found in 1 of 340 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Angelique_29 (CY1),

Start 21:
• Found in 2 of 340 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Herbertwm_29 (A2), PP_40 (A7),

Start 23:
• Found in 1 of 340 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GAL1_28 (singleton),

Start 25:
• Found in 1 of 340 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mutzi_35 (DC1),

Start 26:
• Found in 2 of 340 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Spooky_29 (DN2), Squiddly_31 (DN2),

Start 27:
• Found in 18 of 340 (5.3%) of genes in pham

• Manual Annotations of this start: 17 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CherryCola_36 (DC1), Evamon_33 (DC1), Fireball_34 (DC1), Gezellig_33 (DC1), Halo3_34 (DC1), Jambalaya_33 (DC1), KimmyK_35 (DC1), Nubi_33 (DC1), Phlop_33 (DC1), PullumCavea_33 (DC1), Salvador_33 (DC1), Savbucketdawg_33 (DC1), Sendy_34 (DC1), SmokingBunny_33 (DC1), TillyBobJoe_33 (DC1), Togo_33 (DC1), Valary_36 (DC1), Wizard_33 (DC1),

Start 29:
• Found in 33 of 340 (9.7%) of genes in pham
• Manual Annotations of this start: 23 of 309
• Called 72.7% of time when present
• Phage (with cluster) where this start called: Affeca_36 (DE1), Ailee_35 (DE1), Angelicage_36 (DE1), Bibwit_37 (DE1), BobBob_35 (DE1), Brandonk123_39 (DE1), Charming_38 (DE1), Fosterous_36 (DE1), Galadriel_38 (DE1), Kamashten_36 (DE1), Keitabear_38 (DE1), Lennon_38 (DE1), Love_41 (DE1), McCrothy_38 (DE1), McKinley_40 (DE1), Nordenberg_32 (DE1), Paries_40 (DE1), Rofo_38 (DE1), Sedona_38 (DE1), Shivanishola_38 (DE1), Sitar_38 (DE1), Tangent_38 (DE1), Thing3_36 (DE1), Vivi2_40 (DE1),

Start 30:
• Found in 24 of 340 (7.1%) of genes in pham
• Manual Annotations of this start: 23 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apricot_28 (DN3), Asapag_29 (DN1), BearBQ_28 (DN), Birdsong_28 (DN), Budski_29 (DN), Crater_27 (DN3), Ecliptus_32 (DN), Frickyeah_28 (DN1), Getalong_30 (DN1), Holliday_29 (DN1), Horus_29 (DN1), Kamaru_29 (DN1), Kenna_28 (DN1), Kuwabara_28 (DN4), Leroy_29 (DN1), LitninMcQueen_28 (DN1), Lutum_29 (DN1), MortyNRick_28 (DN), ODay_33 (DN), Periwinkle_31 (DN1), Phabuloso_28 (DN1), Phistory_30 (DN1), ShawBrad_29 (DN1), Whitney_30 (DN1),

Start 33:
• Found in 7 of 340 (2.1%) of genes in pham
• Manual Annotations of this start: 7 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beyoncage_25 (DG1), BiteSize_25 (DG1), Djokovic_25 (DG1), Madi_25 (DG1), Sienna_25 (DG1), Suzy_25 (DG1), Terapin_25 (DG1),

Start 38:
• Found in 4 of 340 (1.2%) of genes in pham
• Manual Annotations of this start: 3 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: InLimbo_26 (DH), Lucky10_25 (DH), Morkie_25 (DH), PhorbesPhlower_25 (DH),

Start 44:
• Found in 1 of 340 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phlei_26 (A13),

Start 48:
• Found in 1 of 340 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ChewyVIII_60 (singleton),

Start 49:
• Found in 23 of 340 (6.8%) of genes in pham
• Manual Annotations of this start: 23 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anaysia_33 (A15), Battleship_34 (A15), Boohoo_33 (A15), DekHockey33_33 (A15), Epsocamisio_33 (A15), JSwag_33 (A15), KatherineG_33 (A15), LastResort_33 (A15), Looper_34 (A15), MinecraftSteve_34 (A15), Nebulosus_33 (A15), Nedarya_32 (A15), Oofda_33 (A15), Ravana_33 (A15), ReMo_33 (A15), Remus_33 (A15), Rosalind_33 (A15), ShayRa_34 (A15), Soups_33 (A15), Strosahl_33 (A15), Switzerland_33 (A15), Waits_33 (A15), Warrior24_33 (A15),

Start 51:
• Found in 38 of 340 (11.2%) of genes in pham
• Manual Annotations of this start: 5 of 309
• Called 13.2% of time when present
• Phage (with cluster) where this start called: Breezona_20 (L2), Faith1_20 (L2), Itos_20 (L2), Rumpelstiltskin_20 (L2), Winky_20 (L2),

Start 52:
• Found in 26 of 340 (7.6%) of genes in pham
• Manual Annotations of this start: 17 of 309
• Called 69.2% of time when present
• Phage (with cluster) where this start called: Abscondus_55 (CQ1), Aphelion_56 (CQ1), Bachita_58 (CQ1), BrutonGaster_45 (CQ2), ClubL_56 (CQ1), Cucurbita_58 (CQ1), Culver_61 (CQ1), Dusty_55 (CQ1), Engineer_58 (CQ1), Geeche_55 (CQ1), Lozinak_57 (CQ1), Miskis_54 (CQ1), Norvs_57 (CQ1), OneUp_50 (CQ2), PhinkBoden_56 (CQ1), Smoothie_58 (CQ1), Toniann_56 (CQ1), WilliamBoone_56 (CQ1),

Start 53:
• Found in 44 of 340 (12.9%) of genes in pham
• Manual Annotations of this start: 27 of 309
• Called 88.6% of time when present
• Phage (with cluster) where this start called: Archie_20 (L2), Baoshan_19 (L2), Bazzle_20 (L2), BigCheese_20 (L2), BobsGarage_20 (L2), ChengKai98_20 (L2), Claus_20 (L2), Crossroads_20 (L2), DHan_20 (L2), DanBing_19 (L2), DrSeegs_20 (L2), Finemlucis_20 (L2), Gabriela_20 (L2), Gardann_20 (L2), GuuelaD_20 (L2), Hafay_20 (L2), Hiraya_20 (L2), Kahlid_20 (L2), Lewan_20 (L2), LilDestine_20 (L2), Loadrie_20 (L2), Lynnae_20 (L2), Miley16_20 (L2), MkaliMitinis3_20 (L2), Molivier_20 (L2), Netyap_20 (L2), Nicholasp3_20 (L2), OverPar_20 (L2), Rossetti_20 (L2), Sarshaun_20 (L2), SoJulia_20 (L2), Soap141_20 (L2), Tourach_20 (L2), Underpass_20 (L2), Vetrix_20 (L2), Wigglewiggle_20 (L2), Wilder_20 (L2), Zakai_20 (L2), ZhongYanYuan_19 (L2),

Start 55:
• Found in 3 of 340 (0.9%) of genes in pham

• Manual Annotations of this start: 2 of 309
• Called 66.7% of time when present
• Phage (with cluster) where this start called: JonJames_55 (DD), Yvonnetastic_53 (DD),

Start 61:
• Found in 16 of 340 (4.7%) of genes in pham
• Manual Annotations of this start: 2 of 309
• Called 12.5% of time when present
• Phage (with cluster) where this start called: LilyPad_26 (DG1), LittleFella_27 (DG2),

Start 68:
• Found in 1 of 340 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jace_22 (singleton),

Start 78:
• Found in 15 of 340 (4.4%) of genes in pham
• Manual Annotations of this start: 14 of 309
• Called 93.3% of time when present
• Phage (with cluster) where this start called: Anthony_30 (A20), Astro_28 (A8), Caitlin_28 (A8), Danforth_27 (A8), Dixon_28 (A8), Expelliarmus_27 (A8), FatCactus_29 (A20), Groundhog_27 (A8), NearlyHeadless_28 (A8), Phillis_28 (A8), Roary_28 (A8), Saintus_28 (A8), Smeadley_28 (A8), Stephig9_28 (A8),

Start 79:
• Found in 6 of 340 (1.8%) of genes in pham
• Manual Annotations of this start: 5 of 309
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Boopy_104 (DS), Forza_104 (DS), GodonK_92 (DK), Mareelih_102 (DS), Phendrix_89 (DK),

Start 80:
• Found in 1 of 340 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sixama_102 (DS),

Start 82:
• Found in 1 of 340 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Malibo_28 (DW),

Start 89:
• Found in 7 of 340 (2.1%) of genes in pham
• Manual Annotations of this start: 2 of 309
• Called 57.1% of time when present
• Phage (with cluster) where this start called: DearBasketball_28 (DY), DinoNuggs_26 (DY), DonkeyMan_25 (DY), Reyja_26 (DY),

Start 91:

• Found in 2 of 340 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jojo24_25 (DY), Santhid_25 (DY),

Start 93:
• Found in 1 of 340 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tarzan_25 (DY),

Start 99:
• Found in 4 of 340 (1.2%) of genes in pham
• Manual Annotations of this start: 4 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beenie_26 (CZ4), Powerball_24 (CZ4), Suerte_24 (CZ4), Thimann_26 (CZ4),

Start 100:
• Found in 9 of 340 (2.6%) of genes in pham
• Manual Annotations of this start: 6 of 309
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Kudefre_29 (DU1), LilJank_30 (DU2), Neville_30 (DU2), Sephiroth_30 (DU1), Syleon_30 (DU1), Trax_30 (DU2),

Start 101:
• Found in 23 of 340 (6.8%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 4.3% of time when present
• Phage (with cluster) where this start called: BlueNGold_103 (DS),

Start 102:
• Found in 1 of 340 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bunnybear_25 (CZ),

Start 105:
• Found in 1 of 340 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rabbitrun_32 (DU2),

Start 107:
• Found in 46 of 340 (13.5%) of genes in pham
• Manual Annotations of this start: 30 of 309
• Called 69.6% of time when present
• Phage (with cluster) where this start called: Ashertheman_37 (DE1), Baddon_36 (DE1), Barsten_37 (DE1), Baumdotcom_36 (DE1), Bizzy_37 (DE1), Brawn1_33 (DE1), ChadMasterC_37 (DE1), Derg_32 (DE1), Fitzgerald_35 (DE1), Flatwoods_37 (DE1), FuegoCuervo_39 (DE1), Gaea_36 (DE1), Geodirt_35 (DE1), Gustavo_36 (DE1), JKSyngboy_34 (DE1), Jabberwocky_35 (DE1), Kewpiedoll_36 (DE1), Kroos_37 (DE1), Kwobi_38 (DE1), LilHam_34 (DE1), MoontowerMania_36 (DE1),

Ribeye_37 (DE1), RiverRaider_37 (DE1), Sanjuju_35 (DE1), Saronaya_36 (DE1), SchottB_35 (DE1), Stichling_34 (DE1), StorminNorm_36 (DE1), Stultus_35 (DE1), Tangerine_36 (DE1), Tycho_36 (DE1), YorkOnyx_37 (DE1),

Start 117:
• Found in 6 of 340 (1.8%) of genes in pham
• Manual Annotations of this start: 5 of 309
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Gibbles_26 (CX), Kampe_27 (CX), Orchid_27 (CX), PatrickStar_27 (CX), RobinSparkles_30 (CX),

Start 126:
• Found in 1 of 340 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finkle_23 (singleton),

Start 140:
• Found in 49 of 340 (14.4%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 2.0% of time when present
• Phage (with cluster) where this start called: Denise_23 (CZ5),

Start 145:
• Found in 13 of 340 (3.8%) of genes in pham
• Manual Annotations of this start: 7 of 309
• Called 61.5% of time when present
• Phage (with cluster) where this start called: Faith5x5_24 (CZ6), FroggyToad_25 (CZ2), JCole_23 (CZ2), Lton_24 (CZ), Matteo_24 (CZ2), OneDirection_23 (CZ6), Pepperoni_25 (CZ), TinyDot_26 (singleton),

Start 146:
• Found in 19 of 340 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 5.3% of time when present
• Phage (with cluster) where this start called: Pickett_24 (CZ2),

Start 151:
• Found in 3 of 340 (0.9%) of genes in pham
• Manual Annotations of this start: 3 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EdnaMode_24 (CZ2), Lamberg_24 (CZ2), Nettuno_24 (CZ2),

Start 152:
• Found in 22 of 340 (6.5%) of genes in pham
• Manual Annotations of this start: 2 of 309
• Called 9.1% of time when present
• Phage (with cluster) where this start called: Hyzer_28 (CZ1), Sidious_27 (CZ7),

Start 176:
• Found in 51 of 340 (15.0%) of genes in pham
• Manual Annotations of this start: 1 of 309

• Called 2.0% of time when present
• Phage (with cluster) where this start called: Whack_26 (singleton),

Start 182:
• Found in 13 of 340 (3.8%) of genes in pham
• Manual Annotations of this start: 2 of 309
• Called 15.4% of time when present
• Phage (with cluster) where this start called: Trine_24 (CD), Upyo_24 (CD),

Start 183:
• Found in 2 of 340 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Heinz_25 (DY), Hibiscus_25 (DY),

Start 189:
• Found in 21 of 340 (6.2%) of genes in pham
• Manual Annotations of this start: 19 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Attis_25 (CZ2), Bjanes7_25 (CZ2), Clap_25 (CZ2), Cynthia_25 (CZ2), Ebert_25 (CZ2), GemG_25 (CZ2), Gizermo_25 (CZ2), Haley23_25 (CZ2), Jalleen_25 (CZ2), LordFarquaad_25 (CZ2), Mocha12_25 (CZ2), Moosehead_24 (CZ6), Sahara_24 (CZ2), Savage_25 (CZ2), SoilAssassin_25 (CZ2), Sproutie_25 (CZ2), TuertoX_25 (CZ2), Vasanti_24 (CZ2), Whiteclaw_25 (CZ2), Yeet412_25 (CZ2), Yinzer_25 (CZ2),

Start 195:
• Found in 33 of 340 (9.7%) of genes in pham
• Manual Annotations of this start: 29 of 309
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agueybana_27 (CZ1), AlumE_27 (CZ1), Antonio_28 (CZ1), BatStarr_26 (CZ1), BaxterFox_26 (CZ3), Bialota_26 (CZ1), Bosnia_26 (CZ1), BoyNamedSue_27 (CZ1), Dillpickles_29 (CZ1), Eudoria_28 (CZ1), Eviarto_26 (CZ1), Herod_26 (CZ1), Hugley_26 (CZ1), Kita_28 (CZ1), Madavieve_26 (CZ1), Madeline_26 (CZ1), Manasvini_28 (CZ1), Maridalia_27 (CZ1), Neobush_28 (CZ1), Nymphadora_26 (CZ1), Ohgeesy_26 (CZ), PantheRoc_27 (CZ3), Polly_25 (CZ1), Suscepit_28 (CZ1), SushiChef_28 (CZ), Tayonia_28 (CZ1), ThankyouJordi_25 (CZ1), TimTam_26 (CZ1), Trumpet_28 (CZ1), WelcomeAyanna_25 (CZ1), Yeezy_28 (CZ3), Zameen_28 (CZ1), Zirinka_26 (CZ1),

Start 197:
• Found in 29 of 340 (8.5%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 3.4% of time when present
• Phage (with cluster) where this start called: Schmidt_27 (CU4),

Start 199:
• Found in 49 of 340 (14.4%) of genes in pham
• Manual Annotations of this start: 1 of 309
• Called 2.0% of time when present
• Phage (with cluster) where this start called: Camerico_31 (DF4),

Summary by clusters:

There are 42 clusters represented in this pham: DN, singleton, DK, DH, CZ2, CZ3, DD, CZ1, CZ6, CZ7, CZ4, CZ5, DY, DW, DS, A15, CU4, A13, DF4, DN4, A2, DN1, DN3, DN2, A8, DU2, CY2, CY1, A7, CD, DG2, CZ, CX, L2, DU1, UNK, CQ1, DC1, A20, CQ2, DE1, DG1,

Info for manual annotations of cluster A15:
•Start number 49 was manually annotated 23 times for cluster A15.

Info for manual annotations of cluster A2:
•Start number 21 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:
•Start number 78 was manually annotated 2 times for cluster A20.

Info for manual annotations of cluster A7:
•Start number 21 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A8:
•Start number 78 was manually annotated 12 times for cluster A8.

Info for manual annotations of cluster CD:
•Start number 182 was manually annotated 2 times for cluster CD.

Info for manual annotations of cluster CQ1:
•Start number 52 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 52 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CU4:
•Start number 197 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CX:
•Start number 117 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster CY1:
•Start number 19 was manually annotated 7 times for cluster CY1.
•Start number 20 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster CY2:
•Start number 19 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CZ:
•Start number 102 was manually annotated 1 time for cluster CZ.
•Start number 145 was manually annotated 2 times for cluster CZ.
•Start number 195 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 152 was manually annotated 1 time for cluster CZ1.
•Start number 195 was manually annotated 25 times for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 145 was manually annotated 2 times for cluster CZ2.
•Start number 146 was manually annotated 1 time for cluster CZ2.
•Start number 151 was manually annotated 3 times for cluster CZ2.
•Start number 189 was manually annotated 18 times for cluster CZ2.

Info for manual annotations of cluster CZ3:
•Start number 195 was manually annotated 3 times for cluster CZ3.

Info for manual annotations of cluster CZ4:
•Start number 99 was manually annotated 4 times for cluster CZ4.

Info for manual annotations of cluster CZ5:
•Start number 140 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:
•Start number 145 was manually annotated 2 times for cluster CZ6.
•Start number 189 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster CZ7:
•Start number 152 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DC1:
•Start number 25 was manually annotated 1 time for cluster DC1.
•Start number 27 was manually annotated 17 times for cluster DC1.

Info for manual annotations of cluster DD:
•Start number 55 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DE1:
•Start number 29 was manually annotated 23 times for cluster DE1.
•Start number 107 was manually annotated 30 times for cluster DE1.

Info for manual annotations of cluster DF4:
•Start number 199 was manually annotated 1 time for cluster DF4.

Info for manual annotations of cluster DG1:
•Start number 33 was manually annotated 7 times for cluster DG1.
•Start number 61 was manually annotated 1 time for cluster DG1.

Info for manual annotations of cluster DG2:
•Start number 61 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DH:
•Start number 38 was manually annotated 3 times for cluster DH.

Info for manual annotations of cluster DK:
•Start number 79 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DN:
•Start number 30 was manually annotated 6 times for cluster DN.

Info for manual annotations of cluster DN1:

•Start number 30 was manually annotated 14 times for cluster DN1.

Info for manual annotations of cluster DN2:
•Start number 26 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:
•Start number 30 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:
•Start number 30 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DS:
•Start number 79 was manually annotated 3 times for cluster DS.
•Start number 80 was manually annotated 1 time for cluster DS.
•Start number 101 was manually annotated 1 time for cluster DS.

Info for manual annotations of cluster DU1:
•Start number 100 was manually annotated 3 times for cluster DU1.

Info for manual annotations of cluster DU2:
•Start number 100 was manually annotated 3 times for cluster DU2.
•Start number 105 was manually annotated 1 time for cluster DU2.

Info for manual annotations of cluster DW:
•Start number 82 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster DY:
•Start number 89 was manually annotated 2 times for cluster DY.
•Start number 91 was manually annotated 2 times for cluster DY.
•Start number 93 was manually annotated 1 time for cluster DY.
•Start number 183 was manually annotated 2 times for cluster DY.

Info for manual annotations of cluster L2:
•Start number 51 was manually annotated 5 times for cluster L2.
•Start number 53 was manually annotated 27 times for cluster L2.

Gene Information:

Gene: Abscondus_55 Start: 35127, Stop: 36959, Start Num: 52
Candidate Starts for Abscondus_55:
(Start: 52 @35127 has 17 MA's), (103, 35232), (Start: 107 @35241 has 30 MA's), (137, 35295), (178, 35385), (192, 35421), (202, 35442), (207, 35445), (249, 35526), (277, 35595), (375, 35865), (410, 36027), (450, 36111), (452, 36117), (488, 36237), (555, 36513), (566, 36570), (569, 36576), (627, 36720), (648, 36804), (667, 36873),

Gene: Affeca_36 Start: 33574, Stop: 35496, Start Num: 29
Candidate Starts for Affeca_36:
(Start: 29 @33574 has 23 MA's), (69, 33709), (77, 33718), (94, 33751), (104, 33775), (136, 33844), (167, 33919), (245, 34111), (247, 34117), (257, 34138), (264, 34156), (270, 34168), (290, 34228), (308, 34282), (359, 34396), (388, 34483), (399, 34537), (413, 34603), (425, 34633), (434, 34645),

(452, 34690), (455, 34702), (459, 34720), (471, 34747), (491, 34825), (500, 34852), (508, 34876), (534, 34999), (544, 35041), (571, 35125), (581, 35155), (619, 35236), (631, 35266), (649, 35338), (652, 35347),

Gene: Agueybana_27 Start: 22803, Stop: 24308, Start Num: 195
Candidate Starts for Agueybana_27:
(109, 22596), (138, 22665), (Start: 140 @22668 has 1 MA's), (150, 22692), (153, 22698), (Start: 195 @22803 has 29 MA's), (223, 22872), (229, 22884), (271, 22995), (274, 23001), (276, 23007), (278, 23013), (303, 23100), (314, 23136), (317, 23142), (321, 23151), (413, 23445), (442, 23499), (444, 23502), (452, 23523), (497, 23673), (522, 23757), (534, 23838), (535, 23841), (609, 24060), (628, 24108), (643, 24168), (657, 24201), (660, 24207), (676, 24279),

Gene: Ailee_35 Start: 33459, Stop: 35381, Start Num: 29
Candidate Starts for Ailee_35:
(Start: 29 @33459 has 23 MA's), (69, 33594), (94, 33636), (104, 33660), (167, 33804), (245, 33996), (247, 34002), (257, 34023), (264, 34041), (270, 34053), (290, 34113), (308, 34167), (359, 34281), (388, 34368), (399, 34422), (409, 34476), (413, 34488), (425, 34518), (434, 34530), (452, 34575), (455, 34587), (459, 34605), (471, 34632), (491, 34710), (500, 34737), (508, 34761), (534, 34884), (544, 34926), (571, 35010), (581, 35040), (619, 35121), (631, 35151), (649, 35223), (652, 35232),

Gene: AlumE_27 Start: 22802, Stop: 24307, Start Num: 195
Candidate Starts for AlumE_27:
(109, 22595), (138, 22664), (Start: 140 @22667 has 1 MA's), (150, 22691), (153, 22697), (Start: 195 @22802 has 29 MA's), (223, 22871), (229, 22883), (271, 22994), (274, 23000), (276, 23006), (278, 23012), (303, 23099), (314, 23135), (317, 23141), (321, 23150), (357, 23234), (413, 23444), (442, 23498), (444, 23501), (452, 23522), (467, 23567), (497, 23672), (522, 23756), (534, 23837), (535, 23840), (568, 23963), (609, 24059), (628, 24107), (635, 24122), (643, 24167), (657, 24200), (660, 24206), (676, 24278),

Gene: Anaysia_33 Start: 21746, Stop: 23458, Start Num: 49
Candidate Starts for Anaysia_33:
(Start: 49 @21746 has 23 MA's), (90, 21839), (158, 21989), (172, 22028), (184, 22058), (249, 22184), (250, 22187), (298, 22325), (317, 22382), (358, 22427), (380, 22433), (394, 22499), (404, 22553), (450, 22667), (455, 22685), (460, 22703), (484, 22760), (531, 22937), (569, 23096), (581, 23132), (629, 23249), (641, 23300), (661, 23360), (667, 23396), (681, 23444),

Gene: Angelicage_36 Start: 33992, Stop: 35914, Start Num: 29
Candidate Starts for Angelicage_36:
(Start: 29 @33992 has 23 MA's), (69, 34127), (77, 34136), (94, 34169), (104, 34193), (136, 34262), (167, 34337), (245, 34529), (247, 34535), (257, 34556), (264, 34574), (270, 34586), (290, 34646), (308, 34700), (359, 34814), (388, 34901), (399, 34955), (413, 35021), (425, 35051), (434, 35063), (452, 35108), (455, 35120), (459, 35138), (471, 35165), (491, 35243), (500, 35270), (508, 35294), (534, 35417), (544, 35459), (571, 35543), (581, 35573), (619, 35654), (631, 35684), (649, 35756), (652, 35765),

Gene: Angelique_29 Start: 23414, Stop: 25348, Start Num: 20
Candidate Starts for Angelique_29:
(2, 23168), (9, 23276), (11, 23279), (12, 23303), (14, 23309), (Start: 20 @23414 has 1 MA's), (Start: 29 @23468 has 23 MA's), (32, 23471), (54, 23558), (121, 23699), (160, 23777), (174, 23816), (222, 23918), (228, 23930), (245, 23975), (257, 24002), (263, 24017), (285, 24071), (290, 24092), (294, 24104), (306, 24140), (368, 24269), (388, 24335), (389, 24338), (395, 24368), (420, 24467), (425, 24479), (434, 24491), (455, 24548), (466, 24581), (469, 24587), (500, 24698), (545, 24890), (581, 25001), (677, 25301),

Gene: Anthony_30 Start: 21219, Stop: 22928, Start Num: 78
Candidate Starts for Anthony_30:
(Start: 78 @21219 has 14 MA's), (148, 21366), (154, 21381), (164, 21408), (186, 21456), (211, 21513), (350, 21867), (379, 21930), (389, 21966), (413, 22080), (451, 22158), (465, 22197), (474, 22224), (478, 22242), (509, 22332), (511, 22335), (513, 22350), (560, 22536), (579, 22596), (591, 22623), (600, 22638), (617, 22683), (625, 22701), (640, 22764), (642, 22770), (671, 22872),

Gene: Antonio_28 Start: 22923, Stop: 24428, Start Num: 195
Candidate Starts for Antonio_28:
(Start: 195 @22923 has 29 MA's), (223, 22992), (229, 23004), (271, 23115), (276, 23127), (278, 23133), (303, 23220), (314, 23256), (317, 23262), (321, 23271), (413, 23565), (442, 23619), (444, 23622), (452, 23643), (467, 23688), (497, 23793), (522, 23877), (534, 23958), (535, 23961), (568, 24084), (609, 24180), (628, 24228), (643, 24288), (657, 24321), (660, 24327), (676, 24399),

Gene: Aphelion_56 Start: 35396, Stop: 37228, Start Num: 52
Candidate Starts for Aphelion_56:
(Start: 52 @35396 has 17 MA's), (103, 35501), (Start: 107 @35510 has 30 MA's), (137, 35564), (178, 35654), (194, 35693), (202, 35711), (249, 35795), (277, 35864), (375, 36134), (410, 36296), (450, 36380), (452, 36386), (488, 36506), (555, 36782), (566, 36839), (569, 36845), (616, 36962), (627, 36989), (648, 37073), (667, 37142),

Gene: Apricot_28 Start: 21679, Stop: 23514, Start Num: 30
Candidate Starts for Apricot_28:
(Start: 30 @21679 has 23 MA's), (85, 21841), (Start: 101 @21871 has 1 MA's), (129, 21925), (136, 21940), (Start: 140 @21952 has 1 MA's), (141, 21955), (150, 21970), (Start: 152 @21973 has 2 MA's), (153, 21976), (Start: 199 @22066 has 1 MA's), (202, 22075), (203, 22078), (240, 22165), (245, 22186), (247, 22192), (257, 22213), (260, 22222), (270, 22243), (273, 22249), (319, 22351), (321, 22354), (337, 22384), (343, 22396), (359, 22420), (363, 22429), (388, 22495), (392, 22507), (399, 22549), (405, 22582), (413, 22615), (416, 22621), (425, 22645), (434, 22657), (455, 22714), (459, 22732), (500, 22864), (508, 22888), (512, 22906), (545, 23059), (550, 23074), (554, 23089), (556, 23095), (571, 23140), (577, 23158), (581, 23170), (584, 23176), (592, 23188), (599, 23197), (619, 23251), (639, 23320), (649, 23353), (651, 23359), (665, 23422), (666, 23425), (671, 23443), (677, 23464), (679, 23473),

Gene: Archie_20 Start: 19444, Stop: 21240, Start Num: 53
Candidate Starts for Archie_20:
(Start: 51 @19441 has 5 MA's), (Start: 53 @19444 has 27 MA's), (98, 19540), (125, 19597), (136, 19621), (Start: 152 @19657 has 2 MA's), (Start: 176 @19717 has 1 MA's), (180, 19726), (191, 19750), (202, 19771), (225, 19828), (262, 19921), (275, 19945), (284, 19975), (300, 20029), (314, 20074), (336, 20125), (377, 20230), (391, 20284), (404, 20362), (407, 20371), (424, 20419), (426, 20422), (429, 20425), (440, 20449), (461, 20509), (465, 20518), (509, 20656), (511, 20659), (534, 20788), (551, 20827), (555, 20842), (576, 20902), (578, 20911), (590, 20938), (605, 20971), (611, 20986), (653, 21112), (658, 21136), (680, 21223),

Gene: Asapag_29 Start: 22121, Stop: 23956, Start Num: 30
Candidate Starts for Asapag_29:
(Start: 30 @22121 has 23 MA's), (85, 22283), (Start: 101 @22313 has 1 MA's), (129, 22367), (136, 22382), (Start: 140 @22394 has 1 MA's), (141, 22397), (150, 22412), (Start: 152 @22415 has 2 MA's), (153, 22418), (Start: 199 @22508 has 1 MA's), (202, 22517), (203, 22520), (240, 22607), (245, 22628), (247, 22634), (257, 22655), (270, 22685), (273, 22691), (319, 22793), (321, 22796), (337, 22826), (343, 22838), (359, 22862), (363, 22871), (388, 22937), (392, 22949), (399, 22991), (405, 23024), (413, 23057), (416, 23063), (425, 23087), (434, 23099), (455, 23156), (459, 23174), (500, 23306),

(508, 23330), (512, 23348), (545, 23501), (550, 23516), (554, 23531), (556, 23537), (571, 23582), (577, 23600), (581, 23612), (584, 23618), (592, 23630), (599, 23639), (619, 23693), (639, 23762), (649, 23795), (651, 23801), (665, 23864), (666, 23867), (671, 23885), (677, 23906), (679, 23915),

Gene: Ashertheman_37 Start: 32252, Stop: 33973, Start Num: 107
Candidate Starts for Ashertheman_37:
(Start: 107 @32252 has 30 MA's), (165, 32387), (188, 32444), (192, 32453), (222, 32522), (312, 32783), (327, 32822), (349, 32882), (371, 32927), (388, 32987), (418, 33122), (421, 33128), (441, 33170), (449, 33185), (458, 33221), (470, 33242), (496, 33338), (497, 33341), (522, 33425), (529, 33458), (534, 33503), (535, 33506), (545, 33542), (556, 33578), (558, 33590), (574, 33626), (612, 33716),

Gene: Astro_28 Start: 21515, Stop: 23236, Start Num: 78
Candidate Starts for Astro_28:
(Start: 78 @21515 has 14 MA's), (148, 21659), (Start: 197 @21773 has 1 MA's), (244, 21863), (256, 21899), (264, 21920), (289, 21992), (296, 22016), (314, 22070), (322, 22088), (360, 22172), (391, 22268), (400, 22322), (409, 22370), (466, 22499), (473, 22517), (511, 22643), (560, 22847), (562, 22856), (592, 22937), (632, 23033), (659, 23132), (681, 23219),

Gene: Attis_25 Start: 20498, Stop: 22021, Start Num: 189
Candidate Starts for Attis_25:
(Start: 189 @20498 has 19 MA's), (219, 20570), (226, 20582), (240, 20609), (246, 20633), (295, 20753), (298, 20762), (323, 20828), (378, 20942), (389, 20984), (395, 21014), (401, 21044), (420, 21110), (434, 21134), (444, 21158), (452, 21176), (455, 21188), (459, 21206), (466, 21221), (469, 21227), (483, 21278), (490, 21305), (508, 21356), (541, 21524), (547, 21545), (566, 21623), (579, 21662), (588, 21683), (589, 21686), (595, 21698), (610, 21737), (653, 21884), (665, 21944), (666, 21947),

Gene: Bachita_58 Start: 35829, Stop: 37661, Start Num: 52
Candidate Starts for Bachita_58:
(Start: 52 @35829 has 17 MA's), (103, 35934), (Start: 107 @35943 has 30 MA's), (137, 35997), (178, 36087), (194, 36126), (202, 36144), (249, 36228), (277, 36297), (375, 36567), (410, 36729), (450, 36813), (452, 36819), (488, 36939), (555, 37215), (566, 37272), (569, 37278), (616, 37395), (627, 37422), (648, 37506), (667, 37575),

Gene: Baddon_36 Start: 33049, Stop: 34770, Start Num: 107
Candidate Starts for Baddon_36:
(Start: 107 @33049 has 30 MA's), (162, 33172), (165, 33184), (192, 33250), (222, 33319), (239, 33355), (312, 33580), (327, 33619), (349, 33679), (371, 33724), (388, 33784), (418, 33919), (421, 33925), (441, 33967), (449, 33982), (458, 34018), (470, 34039), (497, 34138), (522, 34222), (529, 34255), (534, 34300), (535, 34303), (545, 34339), (556, 34375), (558, 34387), (574, 34423), (587, 34459), (612, 34513),

Gene: Baoshan_19 Start: 19053, Stop: 20849, Start Num: 53
Candidate Starts for Baoshan_19:
(Start: 53 @19053 has 27 MA's), (110, 19173), (118, 19194), (125, 19206), (136, 19230), (148, 19257), (Start: 176 @19326 has 1 MA's), (180, 19335), (Start: 197 @19368 has 1 MA's), (202, 19380), (212, 19410), (225, 19437), (275, 19554), (288, 19602), (300, 19638), (314, 19683), (336, 19734), (377, 19839), (383, 19857), (390, 19890), (391, 19893), (396, 19932), (404, 19971), (426, 20031), (429, 20034), (461, 20118), (509, 20265), (528, 20343), (551, 20436), (555, 20451), (576, 20511), (578, 20520), (590, 20547), (611, 20595), (617, 20610), (641, 20694), (642, 20697), (658, 20745), (663, 20760), (680, 20832),

Gene: Barsten_37 Start: 32600, Stop: 34321, Start Num: 107
Candidate Starts for Barsten_37:
(Start: 107 @32600 has 30 MA's), (165, 32735), (169, 32744), (Start: 182 @32777 has 2 MA's), (192, 32801), (222, 32870), (237, 32900), (251, 32945), (312, 33131), (327, 33170), (329, 33179), (359, 33251), (371, 33275), (392, 33347), (406, 33434), (418, 33470), (421, 33476), (441, 33518), (449, 33533), (452, 33542), (497, 33689), (522, 33773), (529, 33806), (535, 33854), (554, 33920), (556, 33926), (558, 33938), (570, 33968), (574, 33974), (587, 34010), (592, 34019), (612, 34064),

Gene: BatStarr_26 Start: 22926, Stop: 24431, Start Num: 195
Candidate Starts for BatStarr_26:
(Start: 61 @22611 has 2 MA's), (109, 22719), (138, 22788), (Start: 140 @22791 has 1 MA's), (150, 22815), (153, 22821), (Start: 195 @22926 has 29 MA's), (223, 22995), (229, 23007), (271, 23118), (274, 23124), (276, 23130), (278, 23136), (303, 23223), (314, 23259), (317, 23265), (321, 23274), (413, 23568), (442, 23622), (444, 23625), (452, 23646), (467, 23691), (497, 23796), (522, 23880), (534, 23961), (535, 23964), (609, 24183), (628, 24231), (643, 24291), (657, 24324), (660, 24330), (676, 24402),

Gene: Battleship_34 Start: 21858, Stop: 23570, Start Num: 49
Candidate Starts for Battleship_34:
(Start: 49 @21858 has 23 MA's), (90, 21951), (158, 22101), (172, 22140), (184, 22170), (249, 22296), (250, 22299), (298, 22437), (317, 22494), (358, 22539), (380, 22545), (394, 22611), (404, 22665), (450, 22779), (455, 22797), (460, 22815), (484, 22872), (531, 23049), (569, 23208), (581, 23244), (629, 23361), (641, 23412), (661, 23472), (667, 23508), (681, 23556),

Gene: Baumdotcom_36 Start: 31904, Stop: 33625, Start Num: 107
Candidate Starts for Baumdotcom_36:
(Start: 107 @31904 has 30 MA's), (162, 32027), (165, 32039), (192, 32105), (222, 32174), (312, 32435), (316, 32444), (327, 32474), (349, 32534), (371, 32579), (388, 32639), (418, 32774), (421, 32780), (441, 32822), (449, 32837), (458, 32873), (470, 32894), (497, 32993), (522, 33077), (529, 33110), (534, 33155), (535, 33158), (545, 33194), (556, 33230), (558, 33242), (574, 33278), (612, 33368),

Gene: BaxterFox_26 Start: 22126, Stop: 23631, Start Num: 195
Candidate Starts for BaxterFox_26:
(Start: 195 @22126 has 29 MA's), (216, 22183), (223, 22195), (229, 22207), (271, 22318), (274, 22324), (276, 22330), (278, 22336), (303, 22423), (314, 22459), (317, 22465), (321, 22474), (406, 22738), (413, 22768), (431, 22795), (442, 22822), (444, 22825), (452, 22846), (469, 22894), (473, 22906), (497, 22996), (522, 23080), (535, 23164), (568, 23287), (609, 23383), (628, 23431), (643, 23491), (657, 23524), (660, 23530), (676, 23602),

Gene: Bazzle_20 Start: 19193, Stop: 20989, Start Num: 53
Candidate Starts for Bazzle_20:
(Start: 51 @19190 has 5 MA's), (Start: 53 @19193 has 27 MA's), (125, 19346), (136, 19370), (Start: 152 @19406 has 2 MA's), (Start: 176 @19466 has 1 MA's), (180, 19475), (191, 19499), (202, 19520), (225, 19577), (262, 19670), (275, 19694), (284, 19724), (300, 19778), (314, 19823), (336, 19874), (377, 19979), (391, 20033), (404, 20111), (407, 20120), (424, 20168), (426, 20171), (429, 20174), (440, 20198), (461, 20258), (465, 20267), (509, 20405), (511, 20408), (534, 20537), (551, 20576), (555, 20591), (576, 20651), (578, 20660), (590, 20687), (605, 20720), (611, 20735), (653, 20861), (658, 20885), (680, 20972),

Gene: BearBQ_28 Start: 22958, Stop: 24742, Start Num: 30
Candidate Starts for BearBQ_28:

(Start: 30 @22958 has 23 MA's), (36, 22973), (46, 23000), (57, 23030), (88, 23102), (97, 23114), (131, 23177), (136, 23189), (159, 23231), (180, 23270), (190, 23279), (222, 23357), (245, 23414), (247, 23420), (257, 23441), (260, 23450), (270, 23471), (273, 23477), (319, 23579), (321, 23582), (337, 23612), (343, 23624), (359, 23648), (363, 23657), (388, 23723), (392, 23735), (399, 23777), (405, 23810), (413, 23843), (416, 23849), (425, 23873), (434, 23885), (455, 23942), (459, 23960), (500, 24092), (508, 24116), (512, 24134), (545, 24287), (550, 24302), (554, 24317), (556, 24323), (571, 24368), (577, 24386), (581, 24398), (584, 24404), (592, 24416), (599, 24425), (619, 24479), (639, 24548), (649, 24581), (651, 24587), (665, 24650), (666, 24653), (671, 24671), (677, 24692), (679, 24701),

Gene: Beenie_26 Start: 22391, Stop: 24076, Start Num: 99
Candidate Starts for Beenie_26:
(Start: 99 @22391 has 4 MA's), (203, 22601), (205, 22607), (210, 22628), (228, 22664), (244, 22706), (245, 22709), (257, 22736), (285, 22805), (290, 22826), (294, 22838), (388, 23066), (395, 23099), (420, 23198), (425, 23210), (434, 23222), (455, 23279), (459, 23297), (466, 23312), (469, 23318), (500, 23429), (512, 23471), (514, 23480), (544, 23618), (545, 23621), (628, 23843),

Gene: Beyoncage_25 Start: 21340, Stop: 23304, Start Num: 33
Candidate Starts for Beyoncage_25:
(Start: 33 @21340 has 7 MA's), (Start: 52 @21421 has 17 MA's), (56, 21430), (70, 21469), (73, 21472), (139, 21604), (160, 21646), (164, 21664), (Start: 197 @21742 has 1 MA's), (219, 21805), (267, 21919), (280, 21955), (291, 21994), (308, 22048), (326, 22099), (365, 22198), (388, 22273), (392, 22285), (404, 22360), (452, 22477), (453, 22480), (456, 22492), (549, 22849), (555, 22867), (566, 22924), (569, 22930), (581, 22966), (584, 22972), (648, 23158), (667, 23227),

Gene: Bialota_26 Start: 22938, Stop: 24443, Start Num: 195
Candidate Starts for Bialota_26:
(Start: 61 @22623 has 2 MA's), (109, 22731), (138, 22800), (Start: 140 @22803 has 1 MA's), (150, 22827), (153, 22833), (Start: 195 @22938 has 29 MA's), (223, 23007), (229, 23019), (271, 23130), (274, 23136), (276, 23142), (278, 23148), (280, 23154), (303, 23235), (314, 23271), (317, 23277), (321, 23286), (413, 23580), (442, 23634), (444, 23637), (452, 23658), (467, 23703), (497, 23808), (522, 23892), (534, 23973), (535, 23976), (609, 24195), (628, 24243), (643, 24303), (657, 24336), (660, 24342), (676, 24414),

Gene: Bibwit_37 Start: 33393, Stop: 35315, Start Num: 29
Candidate Starts for Bibwit_37:
(Start: 29 @33393 has 23 MA's), (69, 33528), (77, 33537), (94, 33570), (104, 33594), (136, 33663), (167, 33738), (245, 33930), (247, 33936), (257, 33957), (264, 33975), (270, 33987), (290, 34047), (308, 34101), (359, 34215), (388, 34302), (399, 34356), (409, 34410), (413, 34422), (425, 34452), (434, 34464), (452, 34509), (455, 34521), (459, 34539), (471, 34566), (491, 34644), (500, 34671), (508, 34695), (534, 34818), (544, 34860), (571, 34944), (581, 34974), (599, 35001), (619, 35055), (631, 35085), (649, 35157), (652, 35166),

Gene: BigCheese_20 Start: 19228, Stop: 21024, Start Num: 53
Candidate Starts for BigCheese_20:
(Start: 51 @19225 has 5 MA's), (Start: 53 @19228 has 27 MA's), (125, 19381), (136, 19405), (Start: 176 @19501 has 1 MA's), (180, 19510), (202, 19555), (212, 19585), (225, 19612), (262, 19705), (275, 19729), (300, 19813), (314, 19858), (377, 20014), (383, 20032), (386, 20047), (390, 20065), (391, 20068), (404, 20146), (424, 20203), (429, 20209), (461, 20293), (465, 20302), (509, 20440), (511, 20443), (551, 20611), (576, 20686), (590, 20722), (600, 20740), (605, 20755), (611, 20770), (617, 20785), (620, 20791), (641, 20869), (642, 20872), (658, 20920), (680, 21007),

Gene: Birdsong_28 Start: 21851, Stop: 23635, Start Num: 30

Candidate Starts for Birdsong_28:
(Start: 30 @21851 has 23 MA's), (36, 21866), (46, 21893), (57, 21923), (88, 21995), (97, 22007), (131, 22070), (136, 22082), (159, 22124), (180, 22163), (190, 22172), (222, 22250), (245, 22307), (247, 22313), (257, 22334), (260, 22343), (270, 22364), (273, 22370), (319, 22472), (321, 22475), (337, 22505), (343, 22517), (359, 22541), (363, 22550), (388, 22616), (392, 22628), (399, 22670), (405, 22703), (413, 22736), (416, 22742), (425, 22766), (434, 22778), (455, 22835), (459, 22853), (500, 22985), (508, 23009), (512, 23027), (545, 23180), (550, 23195), (554, 23210), (556, 23216), (571, 23261), (577, 23279), (581, 23291), (584, 23297), (592, 23309), (599, 23318), (619, 23372), (639, 23441), (649, 23474), (651, 23480), (665, 23543), (666, 23546), (671, 23564), (677, 23585), (679, 23594),

Gene: BiteSize_25 Start: 21340, Stop: 23304, Start Num: 33
Candidate Starts for BiteSize_25:
(Start: 33 @21340 has 7 MA's), (Start: 52 @21421 has 17 MA's), (56, 21430), (70, 21469), (73, 21472), (139, 21604), (160, 21646), (164, 21664), (Start: 197 @21742 has 1 MA's), (219, 21805), (267, 21919), (280, 21955), (291, 21994), (308, 22048), (326, 22099), (365, 22198), (388, 22273), (392, 22285), (404, 22360), (452, 22477), (453, 22480), (456, 22492), (549, 22849), (555, 22867), (566, 22924), (569, 22930), (581, 22966), (584, 22972), (648, 23158), (667, 23227),

Gene: Bizzy_37 Start: 32196, Stop: 33917, Start Num: 107
Candidate Starts for Bizzy_37:
(Start: 107 @32196 has 30 MA's), (162, 32319), (165, 32331), (192, 32397), (222, 32466), (239, 32502), (251, 32541), (312, 32727), (327, 32766), (349, 32826), (371, 32871), (388, 32931), (418, 33066), (421, 33072), (441, 33114), (449, 33129), (458, 33165), (470, 33186), (497, 33285), (522, 33369), (529, 33402), (534, 33447), (535, 33450), (545, 33486), (556, 33522), (558, 33534), (574, 33570), (587, 33606), (612, 33660),

Gene: Bjanes7_25 Start: 20498, Stop: 22021, Start Num: 189
Candidate Starts for Bjanes7_25:
(Start: 189 @20498 has 19 MA's), (219, 20570), (226, 20582), (240, 20609), (246, 20633), (295, 20753), (298, 20762), (323, 20828), (378, 20942), (389, 20984), (395, 21014), (401, 21044), (420, 21110), (434, 21134), (444, 21158), (452, 21176), (455, 21188), (459, 21206), (466, 21221), (469, 21227), (483, 21278), (490, 21305), (508, 21356), (541, 21524), (547, 21545), (566, 21623), (579, 21662), (588, 21683), (589, 21686), (595, 21698), (610, 21737), (653, 21884), (665, 21944), (666, 21947),

Gene: BlueNGold_103 Start: 62535, Stop: 64172, Start Num: 101
Candidate Starts for BlueNGold_103:
(66, 62475), (Start: 79 @62493 has 5 MA's), (Start: 101 @62535 has 1 MA's), (106, 62544), (141, 62610), (142, 62613), (157, 62634), (207, 62745), (227, 62787), (284, 62925), (290, 62949), (389, 63195), (413, 63312), (430, 63339), (434, 63345), (455, 63399), (469, 63438), (500, 63549), (506, 63564), (508, 63573), (547, 63744), (554, 63765), (584, 63858), (633, 63966), (679, 64143),

Gene: BobBob_35 Start: 32673, Stop: 34526, Start Num: 29
Candidate Starts for BobBob_35:
(Start: 29 @32673 has 23 MA's), (69, 32808), (77, 32817), (94, 32850), (104, 32874), (136, 32943), (148, 32973), (167, 33018), (245, 33210), (247, 33216), (257, 33237), (264, 33255), (270, 33267), (290, 33327), (332, 33393), (388, 33513), (395, 33546), (413, 33633), (425, 33663), (434, 33675), (452, 33720), (455, 33732), (459, 33750), (466, 33765), (474, 33789), (491, 33855), (500, 33882), (508, 33906), (534, 34029), (544, 34071), (571, 34155), (581, 34185), (599, 34212), (619, 34266), (631, 34296), (649, 34368), (652, 34377),

Gene: BobsGarage_20 Start: 19228, Stop: 21024, Start Num: 53

Candidate Starts for BobsGarage_20:
(Start: 51 @19225 has 5 MA's), (Start: 53 @19228 has 27 MA's), (125, 19381), (136, 19405), (Start: 176 @19501 has 1 MA's), (180, 19510), (202, 19555), (212, 19585), (225, 19612), (262, 19705), (275, 19729), (300, 19813), (314, 19858), (377, 20014), (383, 20032), (386, 20047), (390, 20065), (391, 20068), (404, 20146), (424, 20203), (429, 20209), (461, 20293), (465, 20302), (509, 20440), (511, 20443), (551, 20611), (576, 20686), (578, 20695), (590, 20722), (600, 20740), (605, 20755), (611, 20770), (617, 20785), (620, 20791), (641, 20869), (642, 20872), (658, 20920), (680, 21007),

Gene: Boohoo_33 Start: 21746, Stop: 23458, Start Num: 49
Candidate Starts for Boohoo_33:
(Start: 49 @21746 has 23 MA's), (90, 21839), (158, 21989), (172, 22028), (184, 22058), (249, 22184), (250, 22187), (298, 22325), (317, 22382), (358, 22427), (380, 22433), (394, 22499), (404, 22553), (450, 22667), (455, 22685), (460, 22703), (484, 22760), (531, 22937), (569, 23096), (581, 23132), (629, 23249), (641, 23300), (661, 23360), (667, 23396), (681, 23444),

Gene: Boopy_104 Start: 62505, Stop: 64184, Start Num: 79
Candidate Starts for Boopy_104:
(66, 62487), (Start: 79 @62505 has 5 MA's), (Start: 101 @62547 has 1 MA's), (106, 62556), (141, 62622), (142, 62625), (157, 62646), (207, 62757), (227, 62799), (284, 62937), (290, 62961), (389, 63207), (413, 63324), (430, 63351), (434, 63357), (455, 63411), (469, 63450), (500, 63561), (506, 63576), (508, 63585), (547, 63756), (554, 63777), (584, 63870), (633, 63978), (679, 64155),

Gene: Bosnia_26 Start: 22926, Stop: 24431, Start Num: 195
Candidate Starts for Bosnia_26:
(Start: 61 @22611 has 2 MA's), (109, 22719), (138, 22788), (Start: 140 @22791 has 1 MA's), (150, 22815), (153, 22821), (Start: 195 @22926 has 29 MA's), (223, 22995), (229, 23007), (271, 23118), (274, 23124), (276, 23130), (278, 23136), (303, 23223), (314, 23259), (317, 23265), (321, 23274), (413, 23568), (442, 23622), (444, 23625), (452, 23646), (467, 23691), (497, 23796), (522, 23880), (534, 23961), (535, 23964), (609, 24183), (628, 24231), (643, 24291), (657, 24324), (660, 24330), (676, 24402),

Gene: BoyNamedSue_27 Start: 22802, Stop: 24307, Start Num: 195
Candidate Starts for BoyNamedSue_27:
(109, 22595), (138, 22664), (Start: 140 @22667 has 1 MA's), (150, 22691), (153, 22697), (Start: 195 @22802 has 29 MA's), (223, 22871), (229, 22883), (271, 22994), (274, 23000), (276, 23006), (278, 23012), (303, 23099), (314, 23135), (317, 23141), (321, 23150), (357, 23234), (413, 23444), (442, 23498), (444, 23501), (452, 23522), (467, 23567), (497, 23672), (522, 23756), (534, 23837), (535, 23840), (568, 23963), (609, 24059), (628, 24107), (635, 24122), (643, 24167), (657, 24200), (660, 24206), (676, 24278),

Gene: Bradissa_28 Start: 22770, Stop: 24722, Start Num: 19
Candidate Starts for Bradissa_28:
(1, 22482), (3, 22539), (4, 22554), (6, 22590), (8, 22635), (10, 22638), (Start: 19 @22770 has 8 MA's), (24, 22785), (28, 22824), (Start: 29 @22827 has 23 MA's), (121, 23055), (134, 23082), (Start: 140 @23097 has 1 MA's), (245, 23331), (247, 23337), (253, 23349), (285, 23427), (290, 23448), (333, 23568), (351, 23610), (388, 23703), (392, 23715), (399, 23757), (414, 23829), (425, 23847), (434, 23859), (455, 23916), (466, 23949), (476, 23982), (500, 24066), (507, 24084), (545, 24258), (560, 24312), (639, 24534), (663, 24615), (665, 24636),

Gene: Brandonk123_39 Start: 33739, Stop: 35661, Start Num: 29
Candidate Starts for Brandonk123_39:
(Start: 29 @33739 has 23 MA's), (69, 33874), (77, 33883), (94, 33916), (104, 33940), (136, 34009), (148, 34039), (167, 34084), (245, 34276), (247, 34282), (257, 34303), (264, 34321), (270, 34333),

(290, 34393), (308, 34447), (359, 34561), (388, 34648), (399, 34702), (409, 34756), (413, 34768), (425, 34798), (434, 34810), (452, 34855), (455, 34867), (459, 34885), (471, 34912), (491, 34990), (500, 35017), (508, 35041), (534, 35164), (544, 35206), (571, 35290), (581, 35320), (599, 35347), (619, 35401), (631, 35431), (649, 35503), (652, 35512),

Gene: Brawn1_33 Start: 31942, Stop: 33663, Start Num: 107
Candidate Starts for Brawn1_33:
(Start: 107 @31942 has 30 MA's), (165, 32077), (Start: 182 @32119 has 2 MA's), (192, 32143), (251, 32287), (312, 32473), (327, 32512), (329, 32521), (359, 32593), (371, 32617), (406, 32776), (418, 32812), (421, 32818), (441, 32860), (449, 32875), (452, 32884), (497, 33031), (522, 33115), (529, 33148), (535, 33196), (554, 33262), (556, 33268), (558, 33280), (570, 33310), (574, 33316), (587, 33352), (592, 33361), (612, 33406),

Gene: Breezona_20 Start: 19225, Stop: 21024, Start Num: 51
Candidate Starts for Breezona_20:
(Start: 51 @19225 has 5 MA's), (Start: 53 @19228 has 27 MA's), (125, 19381), (136, 19405), (Start: 176 @19501 has 1 MA's), (180, 19510), (202, 19555), (212, 19585), (225, 19612), (262, 19705), (275, 19729), (300, 19813), (314, 19858), (377, 20014), (383, 20032), (386, 20047), (390, 20065), (391, 20068), (404, 20146), (424, 20203), (429, 20209), (461, 20293), (465, 20302), (509, 20440), (511, 20443), (551, 20611), (576, 20686), (578, 20695), (590, 20722), (600, 20740), (605, 20755), (611, 20770), (617, 20785), (620, 20791), (641, 20869), (642, 20872), (658, 20920), (680, 21007),

Gene: BritBrat_28 Start: 22623, Stop: 24575, Start Num: 19
Candidate Starts for BritBrat_28:
(1, 22335), (3, 22392), (4, 22407), (6, 22443), (8, 22488), (10, 22491), (Start: 19 @22623 has 8 MA's), (24, 22638), (28, 22677), (Start: 29 @22680 has 23 MA's), (121, 22908), (134, 22935), (Start: 140 @22950 has 1 MA's), (245, 23184), (247, 23190), (253, 23202), (285, 23280), (290, 23301), (333, 23421), (351, 23463), (388, 23556), (392, 23568), (399, 23610), (425, 23700), (434, 23712), (455, 23769), (466, 23802), (476, 23835), (492, 23895), (500, 23919), (507, 23937), (545, 24111), (546, 24117), (560, 24165), (639, 24387), (663, 24468), (665, 24489),

Gene: BrutonGaster_45 Start: 32466, Stop: 34274, Start Num: 52
Candidate Starts for BrutonGaster_45:
(Start: 52 @32466 has 17 MA's), (125, 32613), (178, 32724), (202, 32781), (207, 32784), (249, 32865), (250, 32868), (286, 32964), (298, 33006), (350, 33144), (385, 33237), (388, 33249), (404, 33336), (413, 33372), (446, 33429), (450, 33441), (453, 33450), (460, 33477), (462, 33480), (464, 33483), (487, 33564), (499, 33600), (555, 33834), (558, 33849), (572, 33903), (581, 33933), (603, 33978), (616, 34014), (619, 34023),

Gene: Budski_29 Start: 22226, Stop: 24061, Start Num: 30
Candidate Starts for Budski_29:
(Start: 30 @22226 has 23 MA's), (85, 22388), (Start: 101 @22418 has 1 MA's), (129, 22472), (136, 22487), (Start: 140 @22499 has 1 MA's), (141, 22502), (150, 22517), (Start: 152 @22520 has 2 MA's), (153, 22523), (Start: 199 @22613 has 1 MA's), (202, 22622), (203, 22625), (240, 22712), (245, 22733), (247, 22739), (257, 22760), (260, 22769), (270, 22790), (273, 22796), (319, 22898), (321, 22901), (337, 22931), (343, 22943), (359, 22967), (388, 23042), (392, 23054), (399, 23096), (405, 23129), (413, 23162), (416, 23168), (425, 23192), (434, 23204), (455, 23261), (459, 23279), (500, 23411), (508, 23435), (512, 23453), (545, 23606), (550, 23621), (553, 23633), (554, 23636), (556, 23642), (571, 23687), (577, 23705), (581, 23717), (584, 23723), (592, 23735), (599, 23744), (619, 23798), (639, 23867), (649, 23900), (651, 23906), (665, 23969), (666, 23972), (671, 23990), (677, 24011), (679, 24020),

Gene: Bunnybear_25 Start: 23020, Stop: 24708, Start Num: 102

Candidate Starts for Bunnybear_25:
(5, 22567), (22, 22780), (39, 22852), (40, 22855), (Start: 102 @23020 has 1 MA's), (133, 23089), (138, 23101), (208, 23254), (210, 23257), (222, 23281), (228, 23293), (240, 23317), (244, 23335), (245, 23338), (290, 23455), (294, 23467), (335, 23569), (347, 23593), (381, 23665), (388, 23695), (389, 23698), (392, 23707), (399, 23755), (425, 23845), (434, 23857), (449, 23893), (455, 23914), (459, 23932), (476, 23980), (500, 24064), (545, 24256), (546, 24262), (550, 24271), (581, 24382), (599, 24409), (615, 24457), (618, 24460), (628, 24487), (639, 24532),

Gene: Caitlin_28 Start: 21508, Stop: 23229, Start Num: 78
Candidate Starts for Caitlin_28:
(Start: 78 @21508 has 14 MA's), (148, 21652), (154, 21667), (Start: 197 @21766 has 1 MA's), (244, 21856), (256, 21892), (264, 21913), (289, 21985), (296, 22009), (314, 22063), (360, 22165), (391, 22261), (400, 22315), (409, 22363), (457, 22474), (473, 22510), (506, 22621), (511, 22636), (560, 22840), (562, 22849), (592, 22930), (632, 23026), (659, 23125), (681, 23212),

Gene: Camerico_31 Start: 38003, Stop: 39535, Start Num: 199
Candidate Starts for Camerico_31:
(Start: 199 @38003 has 1 MA's), (258, 38162), (268, 38186), (299, 38288), (326, 38372), (375, 38495), (380, 38510), (381, 38513), (395, 38579), (422, 38681), (429, 38690), (435, 38696), (463, 38777), (506, 38921), (527, 38999), (550, 39122), (582, 39212), (622, 39299), (663, 39440), (664, 39455),

Gene: ChadMasterC_37 Start: 33999, Stop: 35720, Start Num: 107
Candidate Starts for ChadMasterC_37:
(Start: 107 @33999 has 30 MA's), (165, 34134), (169, 34143), (Start: 182 @34176 has 2 MA's), (192, 34200), (222, 34269), (251, 34344), (312, 34530), (327, 34569), (329, 34578), (336, 34593), (359, 34650), (371, 34674), (392, 34746), (406, 34833), (418, 34869), (421, 34875), (441, 34917), (449, 34932), (452, 34941), (497, 35088), (522, 35172), (529, 35205), (535, 35253), (554, 35319), (556, 35325), (558, 35337), (570, 35367), (574, 35373), (587, 35409), (592, 35418), (612, 35463),

Gene: Charming_38 Start: 33240, Stop: 35162, Start Num: 29
Candidate Starts for Charming_38:
(Start: 29 @33240 has 23 MA's), (69, 33375), (94, 33417), (104, 33441), (136, 33510), (148, 33540), (167, 33585), (245, 33777), (247, 33783), (257, 33804), (264, 33822), (270, 33834), (290, 33894), (308, 33948), (359, 34062), (388, 34149), (399, 34203), (413, 34269), (425, 34299), (434, 34311), (452, 34356), (455, 34368), (459, 34386), (471, 34413), (491, 34491), (500, 34518), (508, 34542), (534, 34665), (544, 34707), (571, 34791), (581, 34821), (599, 34848), (619, 34902), (631, 34932), (649, 35004), (652, 35013),

Gene: ChengKai98_20 Start: 19233, Stop: 21029, Start Num: 53
Candidate Starts for ChengKai98_20:
(Start: 51 @19230 has 5 MA's), (Start: 53 @19233 has 27 MA's), (125, 19386), (136, 19410), (Start: 176 @19506 has 1 MA's), (180, 19515), (202, 19560), (212, 19590), (225, 19617), (262, 19710), (275, 19734), (300, 19818), (314, 19863), (377, 20019), (383, 20037), (386, 20052), (390, 20070), (391, 20073), (404, 20151), (424, 20208), (426, 20211), (429, 20214), (461, 20298), (465, 20307), (509, 20445), (511, 20448), (551, 20616), (576, 20691), (578, 20700), (590, 20727), (605, 20760), (611, 20775), (617, 20790), (620, 20796), (641, 20874), (642, 20877), (658, 20925), (680, 21012),

Gene: CherryCola_36 Start: 29154, Stop: 31076, Start Num: 27
Candidate Starts for CherryCola_36:
(Start: 27 @29154 has 17 MA's), (63, 29277), (69, 29298), (98, 29346), (Start: 146 @29454 has 1 MA's), (157, 29475), (Start: 199 @29556 has 1 MA's), (208, 29592), (210, 29595), (244, 29673), (245, 29676), (247, 29682), (257, 29703), (270, 29733), (273, 29739), (317, 29874), (351, 29961), (359, 29970), (362, 29976), (364, 29982), (388, 30057), (395, 30090), (399, 30111), (416, 30183), (425,

30207), (434, 30219), (455, 30276), (500, 30426), (508, 30450), (545, 30618), (550, 30633), (581, 30729), (628, 30840), (638, 30876),

Gene: ChewyVIII_60 Start: 41681, Stop: 43558, Start Num: 48
Candidate Starts for ChewyVIII_60:
(Start: 48 @41681 has 1 MA's), (73, 41744), (84, 41768), (111, 41819), (134, 41867), (178, 41978), (220, 42080), (258, 42161), (280, 42212), (290, 42248), (325, 42347), (386, 42512), (392, 42530), (471, 42758), (501, 42866), (520, 42938), (528, 42971), (540, 43052), (567, 43145), (581, 43184), (586, 43193), (668, 43454), (669, 43460),

Gene: Clap_25 Start: 20505, Stop: 22028, Start Num: 189
Candidate Starts for Clap_25:
(Start: 189 @20505 has 19 MA's), (219, 20577), (226, 20589), (240, 20616), (242, 20622), (246, 20640), (295, 20760), (298, 20769), (323, 20835), (378, 20949), (389, 20991), (395, 21021), (401, 21051), (414, 21111), (420, 21117), (434, 21141), (444, 21165), (452, 21183), (455, 21195), (459, 21213), (466, 21228), (469, 21234), (483, 21285), (490, 21312), (508, 21363), (541, 21531), (579, 21669), (588, 21690), (589, 21693), (595, 21705), (610, 21744), (653, 21891), (665, 21951), (666, 21954),

Gene: Claus_20 Start: 19209, Stop: 21005, Start Num: 53
Candidate Starts for Claus_20:
(Start: 53 @19209 has 27 MA's), (110, 19329), (118, 19350), (125, 19362), (136, 19386), (148, 19413), (Start: 176 @19482 has 1 MA's), (180, 19491), (Start: 197 @19524 has 1 MA's), (202, 19536), (212, 19566), (225, 19593), (275, 19710), (288, 19758), (300, 19794), (314, 19839), (336, 19890), (377, 19995), (383, 20013), (390, 20046), (391, 20049), (396, 20088), (404, 20127), (426, 20187), (429, 20190), (461, 20274), (509, 20421), (528, 20499), (551, 20592), (555, 20607), (576, 20667), (578, 20676), (611, 20751), (617, 20766), (641, 20850), (642, 20853), (653, 20877), (658, 20901), (663, 20916), (680, 20988),

Gene: ClubL_56 Start: 35318, Stop: 37150, Start Num: 52
Candidate Starts for ClubL_56:
(Start: 52 @35318 has 17 MA's), (103, 35423), (Start: 107 @35432 has 30 MA's), (137, 35486), (178, 35576), (194, 35615), (202, 35633), (249, 35717), (277, 35786), (375, 36056), (410, 36218), (450, 36302), (452, 36308), (488, 36428), (555, 36704), (566, 36761), (569, 36767), (616, 36884), (627, 36911), (648, 36995), (667, 37064),

Gene: Crater_27 Start: 21679, Stop: 23514, Start Num: 30
Candidate Starts for Crater_27:
(Start: 30 @21679 has 23 MA's), (85, 21841), (Start: 101 @21871 has 1 MA's), (129, 21925), (136, 21940), (Start: 140 @21952 has 1 MA's), (141, 21955), (150, 21970), (Start: 152 @21973 has 2 MA's), (153, 21976), (Start: 199 @22066 has 1 MA's), (202, 22075), (203, 22078), (240, 22165), (245, 22186), (247, 22192), (257, 22213), (260, 22222), (270, 22243), (273, 22249), (319, 22351), (321, 22354), (337, 22384), (343, 22396), (359, 22420), (388, 22495), (392, 22507), (399, 22549), (405, 22582), (413, 22615), (416, 22621), (425, 22645), (434, 22657), (455, 22714), (459, 22732), (500, 22864), (508, 22888), (512, 22906), (545, 23059), (550, 23074), (554, 23089), (556, 23095), (571, 23140), (577, 23158), (581, 23170), (584, 23176), (592, 23188), (599, 23197), (619, 23251), (628, 23275), (639, 23320), (649, 23353), (651, 23359), (665, 23422), (666, 23425), (671, 23443), (677, 23464), (679, 23473),

Gene: Crossroads_20 Start: 19228, Stop: 21024, Start Num: 53
Candidate Starts for Crossroads_20:
(Start: 51 @19225 has 5 MA's), (Start: 53 @19228 has 27 MA's), (125, 19381), (136, 19405), (Start: 176 @19501 has 1 MA's), (180, 19510), (202, 19555), (212, 19585), (225, 19612), (262, 19705), (275,

19729), (300, 19813), (314, 19858), (377, 20014), (383, 20032), (386, 20047), (390, 20065), (391, 20068), (404, 20146), (424, 20203), (426, 20206), (429, 20209), (461, 20293), (465, 20302), (474, 20329), (509, 20440), (511, 20443), (551, 20611), (576, 20686), (578, 20695), (590, 20722), (605, 20755), (611, 20770), (617, 20785), (620, 20791), (641, 20869), (642, 20872), (658, 20920), (680, 21007),

Gene: Cucurbita_58 Start: 36688, Stop: 38520, Start Num: 52
Candidate Starts for Cucurbita_58:
(Start: 52 @36688 has 17 MA's), (103, 36793), (Start: 107 @36802 has 30 MA's), (137, 36856), (178, 36946), (194, 36985), (202, 37003), (249, 37087), (277, 37156), (375, 37426), (410, 37588), (450, 37672), (452, 37678), (488, 37798), (555, 38074), (566, 38131), (569, 38137), (616, 38254), (627, 38281), (648, 38365), (667, 38434),

Gene: Culver_61 Start: 38678, Stop: 40513, Start Num: 52
Candidate Starts for Culver_61:
(Start: 52 @38678 has 17 MA's), (137, 38846), (138, 38849), (178, 38936), (192, 38972), (202, 38993), (249, 39077), (274, 39134), (277, 39146), (314, 39269), (375, 39416), (410, 39578), (413, 39587), (446, 39650), (450, 39662), (452, 39668), (460, 39698), (555, 40064), (566, 40121), (569, 40127), (624, 40262), (672, 40442), (685, 40493),

Gene: Cynthia_25 Start: 20505, Stop: 22028, Start Num: 189
Candidate Starts for Cynthia_25:
(Start: 189 @20505 has 19 MA's), (219, 20577), (226, 20589), (240, 20616), (242, 20622), (246, 20640), (295, 20760), (298, 20769), (323, 20835), (378, 20949), (389, 20991), (395, 21021), (401, 21051), (414, 21111), (420, 21117), (434, 21141), (444, 21165), (452, 21183), (455, 21195), (459, 21213), (466, 21228), (469, 21234), (483, 21285), (490, 21312), (508, 21363), (541, 21531), (579, 21669), (588, 21690), (589, 21693), (595, 21705), (610, 21744), (653, 21891), (665, 21951), (666, 21954),

Gene: DHan_20 Start: 19145, Stop: 20941, Start Num: 53
Candidate Starts for DHan_20:
(Start: 53 @19145 has 27 MA's), (110, 19265), (136, 19322), (148, 19349), (170, 19406), (Start: 176 @19418 has 1 MA's), (180, 19427), (202, 19472), (212, 19502), (225, 19529), (275, 19646), (288, 19694), (300, 19730), (314, 19775), (336, 19826), (377, 19931), (383, 19949), (390, 19982), (391, 19985), (396, 20024), (404, 20063), (426, 20123), (429, 20126), (461, 20210), (509, 20357), (528, 20435), (551, 20528), (555, 20543), (576, 20603), (578, 20612), (590, 20639), (611, 20687), (617, 20702), (641, 20786), (653, 20813), (658, 20837), (663, 20852), (680, 20924),

Gene: DanBing_19 Start: 19049, Stop: 20845, Start Num: 53
Candidate Starts for DanBing_19:
(Start: 53 @19049 has 27 MA's), (110, 19169), (118, 19190), (125, 19202), (136, 19226), (148, 19253), (Start: 176 @19322 has 1 MA's), (180, 19331), (Start: 197 @19364 has 1 MA's), (202, 19376), (212, 19406), (225, 19433), (275, 19550), (288, 19598), (300, 19634), (314, 19679), (336, 19730), (377, 19835), (383, 19853), (390, 19886), (391, 19889), (396, 19928), (404, 19967), (426, 20027), (429, 20030), (461, 20114), (509, 20261), (528, 20339), (551, 20432), (555, 20447), (576, 20507), (578, 20516), (590, 20543), (611, 20591), (617, 20606), (641, 20690), (642, 20693), (653, 20717), (658, 20741), (663, 20756), (680, 20828),

Gene: Danforth_27 Start: 21490, Stop: 23211, Start Num: 78
Candidate Starts for Danforth_27:
(Start: 78 @21490 has 14 MA's), (148, 21634), (Start: 197 @21748 has 1 MA's), (244, 21838), (256, 21874), (264, 21895), (289, 21967), (296, 21991), (314, 22045), (360, 22147), (391, 22243), (400, 22297), (409, 22345), (466, 22474), (473, 22492), (511, 22618), (560, 22822), (562, 22831), (592,

22912), (659, 23107),

Gene: DearBasketball_28 Start: 19898, Stop: 21595, Start Num: 89
Candidate Starts for DearBasketball_28:
(Start: 89 @19898 has 2 MA's), (141, 19997), (191, 20093), (Start: 199 @20108 has 1 MA's), (245, 20228), (247, 20234), (257, 20255), (274, 20291), (285, 20324), (290, 20345), (306, 20393), (335, 20462), (358, 20498), (359, 20501), (388, 20582), (399, 20636), (420, 20717), (425, 20729), (434, 20741), (449, 20777), (455, 20798), (459, 20816), (466, 20831), (500, 20948), (508, 20972), (545, 21143), (577, 21260), (581, 21272), (584, 21278), (599, 21299), (651, 21446), (659, 21476), (667, 21515),

Gene: DekHockey33_33 Start: 21865, Stop: 23577, Start Num: 49
Candidate Starts for DekHockey33_33:
(Start: 49 @21865 has 23 MA's), (90, 21958), (158, 22108), (172, 22147), (184, 22177), (249, 22303), (250, 22306), (298, 22444), (317, 22501), (358, 22546), (380, 22552), (394, 22618), (404, 22672), (450, 22786), (455, 22804), (460, 22822), (484, 22879), (531, 23056), (569, 23215), (581, 23251), (629, 23368), (641, 23419), (661, 23479), (667, 23515), (681, 23563),

Gene: Denise_23 Start: 19509, Stop: 21110, Start Num: 140
Candidate Starts for Denise_23:
(71, 19368), (75, 19371), (128, 19479), (Start: 140 @19509 has 1 MA's), (157, 19542), (174, 19581), (Start: 199 @19620 has 1 MA's), (245, 19728), (247, 19734), (274, 19791), (285, 19824), (290, 19845), (294, 19857), (306, 19893), (347, 19983), (359, 19998), (381, 20055), (388, 20085), (392, 20097), (399, 20145), (425, 20235), (434, 20247), (449, 20283), (455, 20304), (476, 20370), (500, 20454), (545, 20646), (546, 20652), (581, 20772), (599, 20799), (628, 20877), (639, 20922),

Gene: Derg_32 Start: 31792, Stop: 33513, Start Num: 107
Candidate Starts for Derg_32:
(Start: 107 @31792 has 30 MA's), (162, 31915), (165, 31927), (192, 31993), (222, 32062), (239, 32098), (312, 32323), (327, 32362), (349, 32422), (371, 32467), (388, 32527), (418, 32662), (421, 32668), (441, 32710), (449, 32725), (458, 32761), (470, 32782), (497, 32881), (522, 32965), (529, 32998), (534, 33043), (535, 33046), (545, 33082), (556, 33118), (558, 33130), (574, 33166), (587, 33202), (612, 33256),

Gene: Dillpickles_29 Start: 22923, Stop: 24428, Start Num: 195
Candidate Starts for Dillpickles_29:
(Start: 195 @22923 has 29 MA's), (223, 22992), (229, 23004), (271, 23115), (276, 23127), (278, 23133), (303, 23220), (314, 23256), (317, 23262), (321, 23271), (413, 23565), (442, 23619), (444, 23622), (452, 23643), (467, 23688), (497, 23793), (522, 23877), (534, 23958), (535, 23961), (568, 24084), (609, 24180), (628, 24228), (643, 24288), (657, 24321), (660, 24327), (676, 24399),

Gene: DinoNuggs_26 Start: 19864, Stop: 21561, Start Num: 89
Candidate Starts for DinoNuggs_26:
(Start: 89 @19864 has 2 MA's), (141, 19963), (191, 20059), (Start: 199 @20074 has 1 MA's), (245, 20194), (247, 20200), (257, 20221), (274, 20257), (285, 20290), (290, 20311), (306, 20359), (335, 20428), (358, 20464), (359, 20467), (388, 20548), (399, 20602), (420, 20683), (425, 20695), (434, 20707), (449, 20743), (455, 20764), (459, 20782), (466, 20797), (500, 20914), (508, 20938), (545, 21109), (577, 21226), (581, 21238), (584, 21244), (599, 21265), (651, 21412), (659, 21442), (667, 21481),

Gene: Dixon_28 Start: 21509, Stop: 23230, Start Num: 78
Candidate Starts for Dixon_28:

(Start: 78 @21509 has 14 MA's), (148, 21653), (154, 21668), (Start: 197 @21767 has 1 MA's), (256, 21893), (264, 21914), (289, 21986), (296, 22010), (314, 22064), (360, 22166), (391, 22262), (400, 22316), (409, 22364), (457, 22475), (473, 22511), (506, 22622), (511, 22637), (560, 22841), (562, 22850), (592, 22931), (632, 23027), (659, 23126),

Gene: Djokovic_25 Start: 21340, Stop: 23304, Start Num: 33
Candidate Starts for Djokovic_25:
(Start: 33 @21340 has 7 MA's), (Start: 52 @21421 has 17 MA's), (56, 21430), (70, 21469), (73, 21472), (139, 21604), (160, 21646), (164, 21664), (Start: 197 @21742 has 1 MA's), (219, 21805), (267, 21919), (280, 21955), (291, 21994), (308, 22048), (326, 22099), (365, 22198), (388, 22273), (392, 22285), (404, 22360), (452, 22477), (453, 22480), (456, 22492), (549, 22849), (555, 22867), (566, 22924), (569, 22930), (581, 22966), (584, 22972), (648, 23158), (667, 23227),

Gene: DonkeyMan_25 Start: 19656, Stop: 21356, Start Num: 89
Candidate Starts for DonkeyMan_25:
(Start: 89 @19656 has 2 MA's), (141, 19755), (191, 19851), (Start: 199 @19866 has 1 MA's), (245, 19986), (247, 19992), (290, 20103), (292, 20109), (351, 20262), (388, 20355), (389, 20358), (392, 20367), (395, 20388), (399, 20409), (413, 20478), (414, 20481), (425, 20499), (434, 20511), (449, 20547), (455, 20568), (459, 20586), (476, 20634), (495, 20703), (500, 20718), (545, 20910), (546, 20916), (550, 20925), (581, 21036), (599, 21063), (615, 21111), (628, 21141), (639, 21186),

Gene: DrSeegs_20 Start: 19228, Stop: 21024, Start Num: 53
Candidate Starts for DrSeegs_20:
(Start: 51 @19225 has 5 MA's), (Start: 53 @19228 has 27 MA's), (125, 19381), (136, 19405), (Start: 176 @19501 has 1 MA's), (180, 19510), (202, 19555), (212, 19585), (225, 19612), (262, 19705), (275, 19729), (300, 19813), (314, 19858), (377, 20014), (383, 20032), (386, 20047), (390, 20065), (391, 20068), (404, 20146), (424, 20203), (429, 20209), (461, 20293), (465, 20302), (509, 20440), (511, 20443), (551, 20611), (576, 20686), (578, 20695), (590, 20722), (600, 20740), (605, 20755), (611, 20770), (617, 20785), (620, 20791), (641, 20869), (642, 20872), (658, 20920), (680, 21007),

Gene: Dusty_55 Start: 35127, Stop: 36959, Start Num: 52
Candidate Starts for Dusty_55:
(Start: 52 @35127 has 17 MA's), (103, 35232), (Start: 107 @35241 has 30 MA's), (137, 35295), (178, 35385), (192, 35421), (202, 35442), (207, 35445), (249, 35526), (277, 35595), (375, 35865), (410, 36027), (450, 36111), (452, 36117), (488, 36237), (555, 36513), (566, 36570), (569, 36576), (627, 36720), (648, 36804), (667, 36873),

Gene: EMsquaredA_28 Start: 22623, Stop: 24575, Start Num: 19
Candidate Starts for EMsquaredA_28:
(1, 22335), (3, 22392), (4, 22407), (6, 22443), (8, 22488), (10, 22491), (Start: 19 @22623 has 8 MA's), (24, 22638), (28, 22677), (Start: 29 @22680 has 23 MA's), (121, 22908), (134, 22935), (Start: 140 @22950 has 1 MA's), (245, 23184), (247, 23190), (253, 23202), (285, 23280), (290, 23301), (333, 23421), (351, 23463), (388, 23556), (392, 23568), (399, 23610), (425, 23700), (434, 23712), (455, 23769), (466, 23802), (476, 23835), (492, 23895), (500, 23919), (507, 23937), (545, 24111), (546, 24117), (560, 24165), (639, 24387), (663, 24468), (665, 24489),

Gene: Ebert_25 Start: 20505, Stop: 22028, Start Num: 189
Candidate Starts for Ebert_25:
(Start: 189 @20505 has 19 MA's), (219, 20577), (226, 20589), (240, 20616), (242, 20622), (246, 20640), (295, 20760), (298, 20769), (323, 20835), (378, 20949), (389, 20991), (395, 21021), (401, 21051), (414, 21111), (420, 21117), (434, 21141), (444, 21165), (452, 21183), (455, 21195), (459, 21213), (466, 21228), (469, 21234), (483, 21285), (490, 21312), (508, 21363), (541, 21531), (579, 21669), (588, 21690), (589, 21693), (595, 21705), (610, 21744), (653, 21891), (665, 21951), (666,

21954),

Gene: Ecliptus_32 Start: 23700, Stop: 25484, Start Num: 30
Candidate Starts for Ecliptus_32:
(Start: 30 @23700 has 23 MA's), (36, 23715), (46, 23742), (57, 23772), (88, 23844), (97, 23856), (131, 23919), (136, 23931), (159, 23973), (180, 24012), (190, 24021), (222, 24099), (245, 24156), (247, 24162), (257, 24183), (260, 24192), (270, 24213), (273, 24219), (319, 24321), (321, 24324), (337, 24354), (343, 24366), (359, 24390), (388, 24465), (392, 24477), (399, 24519), (405, 24552), (413, 24585), (416, 24591), (425, 24615), (434, 24627), (455, 24684), (459, 24702), (500, 24834), (508, 24858), (512, 24876), (545, 25029), (550, 25044), (554, 25059), (556, 25065), (571, 25110), (577, 25128), (581, 25140), (584, 25146), (592, 25158), (599, 25167), (619, 25221), (639, 25290), (649, 25323), (651, 25329), (665, 25392), (666, 25395), (671, 25413), (677, 25434), (679, 25443),

Gene: EdnaMode_24 Start: 19408, Stop: 20961, Start Num: 151
Candidate Starts for EdnaMode_24:
(Start: 151 @19408 has 3 MA's), (179, 19477), (192, 19492), (207, 19534), (208, 19540), (245, 19624), (247, 19630), (257, 19651), (264, 19669), (271, 19681), (274, 19687), (339, 19843), (372, 19885), (395, 19978), (399, 19999), (413, 20065), (425, 20095), (434, 20107), (455, 20164), (500, 20314), (508, 20338), (545, 20506), (571, 20605), (577, 20623), (581, 20635), (652, 20812), (659, 20839), (667, 20878),

Gene: EnalisNailo_28 Start: 22772, Stop: 24724, Start Num: 19
Candidate Starts for EnalisNailo_28:
(1, 22484), (3, 22541), (4, 22556), (6, 22592), (8, 22637), (10, 22640), (Start: 19 @22772 has 8 MA's), (24, 22787), (28, 22826), (Start: 29 @22829 has 23 MA's), (121, 23057), (134, 23084), (Start: 140 @23099 has 1 MA's), (245, 23333), (247, 23339), (253, 23351), (285, 23429), (290, 23450), (333, 23570), (351, 23612), (388, 23705), (392, 23717), (399, 23759), (425, 23849), (434, 23861), (455, 23918), (466, 23951), (476, 23984), (492, 24044), (500, 24068), (507, 24086), (545, 24260), (546, 24266), (560, 24314), (639, 24536), (663, 24617), (665, 24638),

Gene: Engineer_58 Start: 35802, Stop: 37634, Start Num: 52
Candidate Starts for Engineer_58:
(Start: 52 @35802 has 17 MA's), (103, 35907), (Start: 107 @35916 has 30 MA's), (137, 35970), (178, 36060), (194, 36099), (202, 36117), (249, 36201), (277, 36270), (375, 36540), (410, 36702), (450, 36786), (452, 36792), (488, 36912), (555, 37188), (566, 37245), (569, 37251), (616, 37368), (627, 37395), (648, 37479), (667, 37548),

Gene: Epsocamisio_33 Start: 21743, Stop: 23455, Start Num: 49
Candidate Starts for Epsocamisio_33:
(Start: 49 @21743 has 23 MA's), (90, 21836), (144, 21953), (158, 21986), (172, 22025), (184, 22055), (249, 22181), (250, 22184), (298, 22322), (317, 22379), (358, 22424), (380, 22430), (394, 22496), (404, 22550), (450, 22664), (455, 22682), (460, 22700), (484, 22757), (531, 22934), (569, 23093), (581, 23129), (629, 23246), (641, 23297), (661, 23357), (667, 23393), (681, 23441),

Gene: Eudoria_28 Start: 22923, Stop: 24428, Start Num: 195
Candidate Starts for Eudoria_28:
(Start: 195 @22923 has 29 MA's), (223, 22992), (229, 23004), (271, 23115), (276, 23127), (278, 23133), (303, 23220), (314, 23256), (317, 23262), (321, 23271), (413, 23565), (442, 23619), (444, 23622), (452, 23643), (467, 23688), (497, 23793), (522, 23877), (534, 23958), (535, 23961), (568, 24084), (609, 24180), (628, 24228), (643, 24288), (657, 24321), (660, 24327), (676, 24399),

Gene: Evamon_33 Start: 28220, Stop: 30142, Start Num: 27
Candidate Starts for Evamon_33:

(Start: 27 @28220 has 17 MA's), (63, 28343), (69, 28364), (98, 28412), (Start: 146 @28520 has 1 MA's), (157, 28541), (Start: 199 @28622 has 1 MA's), (208, 28658), (210, 28661), (244, 28739), (245, 28742), (247, 28748), (257, 28769), (270, 28799), (273, 28805), (317, 28940), (351, 29027), (359, 29036), (362, 29042), (364, 29048), (395, 29156), (399, 29177), (416, 29249), (425, 29273), (434, 29285), (455, 29342), (500, 29492), (508, 29516), (545, 29684), (550, 29699), (581, 29795), (628, 29906), (638, 29942),

Gene: Eviarto_26 Start: 22926, Stop: 24431, Start Num: 195
Candidate Starts for Eviarto_26:
(Start: 61 @22611 has 2 MA's), (109, 22719), (138, 22788), (Start: 140 @22791 has 1 MA's), (150, 22815), (153, 22821), (Start: 195 @22926 has 29 MA's), (223, 22995), (229, 23007), (271, 23118), (274, 23124), (276, 23130), (278, 23136), (303, 23223), (314, 23259), (317, 23265), (321, 23274), (413, 23568), (442, 23622), (444, 23625), (452, 23646), (467, 23691), (497, 23796), (522, 23880), (534, 23961), (535, 23964), (609, 24183), (628, 24231), (643, 24291), (657, 24324), (660, 24330), (676, 24402),

Gene: Expelliarmus_27 Start: 21476, Stop: 23197, Start Num: 78
Candidate Starts for Expelliarmus_27:
(Start: 78 @21476 has 14 MA's), (148, 21620), (154, 21635), (Start: 197 @21734 has 1 MA's), (244, 21824), (256, 21860), (289, 21953), (296, 21977), (314, 22031), (360, 22133), (391, 22229), (400, 22283), (409, 22331), (466, 22460), (473, 22478), (511, 22604), (560, 22808), (562, 22817), (592, 22898), (632, 22994), (659, 23093), (681, 23180),

Gene: Faith1_20 Start: 19225, Stop: 21024, Start Num: 51
Candidate Starts for Faith1_20:
(Start: 51 @19225 has 5 MA's), (Start: 53 @19228 has 27 MA's), (125, 19381), (136, 19405), (Start: 176 @19501 has 1 MA's), (180, 19510), (202, 19555), (212, 19585), (225, 19612), (262, 19705), (275, 19729), (300, 19813), (314, 19858), (377, 20014), (383, 20032), (386, 20047), (390, 20065), (391, 20068), (404, 20146), (424, 20203), (429, 20209), (461, 20293), (465, 20302), (509, 20440), (511, 20443), (551, 20611), (576, 20686), (578, 20695), (590, 20722), (600, 20740), (605, 20755), (611, 20770), (617, 20785), (620, 20791), (641, 20869), (642, 20872), (658, 20920), (680, 21007),

Gene: Faith5x5_24 Start: 19344, Stop: 20945, Start Num: 145
Candidate Starts for Faith5x5_24:
(56, 19161), (74, 19206), (76, 19209), (143, 19341), (Start: 145 @19344 has 7 MA's), (179, 19416), (192, 19431), (196, 19437), (207, 19473), (208, 19479), (222, 19506), (230, 19521), (244, 19560), (245, 19563), (247, 19569), (257, 19590), (264, 19608), (274, 19626), (285, 19659), (289, 19677), (290, 19680), (294, 19692), (368, 19878), (388, 19944), (389, 19947), (395, 19977), (409, 20055), (420, 20076), (425, 20088), (434, 20100), (455, 20157), (469, 20196), (500, 20307), (527, 20403), (545, 20499), (565, 20568), (581, 20610), (599, 20637), (619, 20691), (628, 20715), (638, 20751), (659, 20823), (666, 20859),

Gene: FatCactus_29 Start: 21131, Stop: 22840, Start Num: 78
Candidate Starts for FatCactus_29:
(Start: 78 @21131 has 14 MA's), (148, 21278), (154, 21293), (164, 21320), (186, 21368), (Start: 197 @21392 has 1 MA's), (211, 21425), (350, 21779), (366, 21806), (370, 21815), (433, 22022), (451, 22070), (465, 22109), (474, 22136), (509, 22244), (511, 22247), (513, 22262), (560, 22448), (579, 22508), (591, 22535), (617, 22595),

Gene: Finemlucis_20 Start: 19236, Stop: 21032, Start Num: 53
Candidate Starts for Finemlucis_20:
(Start: 51 @19233 has 5 MA's), (Start: 53 @19236 has 27 MA's), (125, 19389), (136, 19413), (Start: 176 @19509 has 1 MA's), (180, 19518), (202, 19563), (212, 19593), (225, 19620), (262, 19713), (275,

19737), (300, 19821), (314, 19866), (377, 20022), (383, 20040), (386, 20055), (390, 20073), (391, 20076), (404, 20154), (424, 20211), (426, 20214), (429, 20217), (461, 20301), (465, 20310), (474, 20337), (509, 20448), (511, 20451), (551, 20619), (576, 20694), (578, 20703), (590, 20730), (605, 20763), (611, 20778), (617, 20793), (620, 20799), (641, 20877), (642, 20880), (658, 20928), (680, 21015),

Gene: Finkle_23 Start: 19627, Stop: 21318, Start Num: 126
Candidate Starts for Finkle_23:
(Start: 126 @19627 has 1 MA's), (166, 19726), (173, 19744), (175, 19750), (243, 19909), (251, 19930), (265, 19963), (279, 19996), (291, 20038), (293, 20044), (305, 20080), (309, 20092), (324, 20131), (421, 20422), (425, 20431), (437, 20455), (447, 20473), (448, 20476), (459, 20512), (466, 20527), (469, 20533), (492, 20632), (514, 20707), (526, 20752), (533, 20818), (538, 20842), (545, 20866), (546, 20872), (559, 20917), (638, 21133),

Gene: Fireball_34 Start: 28343, Stop: 30265, Start Num: 27
Candidate Starts for Fireball_34:
(Start: 27 @28343 has 17 MA's), (63, 28466), (69, 28487), (98, 28535), (Start: 146 @28643 has 1 MA's), (157, 28664), (Start: 199 @28745 has 1 MA's), (208, 28781), (210, 28784), (244, 28862), (245, 28865), (247, 28871), (257, 28892), (270, 28922), (273, 28928), (317, 29063), (351, 29150), (359, 29159), (362, 29165), (364, 29171), (388, 29246), (395, 29279), (399, 29300), (416, 29372), (425, 29396), (434, 29408), (455, 29465), (500, 29615), (508, 29639), (545, 29807), (550, 29822), (581, 29918), (628, 30029), (638, 30065),

Gene: Fitzgerald_35 Start: 33217, Stop: 34938, Start Num: 107
Candidate Starts for Fitzgerald_35:
(Start: 107 @33217 has 30 MA's), (165, 33352), (169, 33361), (Start: 182 @33394 has 2 MA's), (192, 33418), (222, 33487), (312, 33748), (327, 33787), (329, 33796), (336, 33811), (359, 33868), (371, 33892), (392, 33964), (406, 34051), (418, 34087), (421, 34093), (441, 34135), (449, 34150), (452, 34159), (497, 34306), (522, 34390), (529, 34423), (535, 34471), (554, 34537), (556, 34543), (558, 34555), (570, 34585), (574, 34591), (587, 34627), (592, 34636), (612, 34681),

Gene: Flatwoods_37 Start: 32153, Stop: 33874, Start Num: 107
Candidate Starts for Flatwoods_37:
(Start: 107 @32153 has 30 MA's), (162, 32276), (165, 32288), (192, 32354), (222, 32423), (239, 32459), (251, 32498), (312, 32684), (327, 32723), (349, 32783), (371, 32828), (388, 32888), (418, 33023), (421, 33029), (441, 33071), (449, 33086), (458, 33122), (470, 33143), (497, 33242), (522, 33326), (529, 33359), (534, 33404), (535, 33407), (545, 33443), (556, 33479), (558, 33491), (574, 33527), (587, 33563), (612, 33617),

Gene: Floral_28 Start: 22623, Stop: 24575, Start Num: 19
Candidate Starts for Floral_28:
(1, 22335), (3, 22392), (4, 22407), (6, 22443), (8, 22488), (10, 22491), (Start: 19 @22623 has 8 MA's), (24, 22638), (28, 22677), (Start: 29 @22680 has 23 MA's), (121, 22908), (134, 22935), (Start: 140 @22950 has 1 MA's), (245, 23184), (247, 23190), (253, 23202), (285, 23280), (290, 23301), (333, 23421), (351, 23463), (388, 23556), (392, 23568), (399, 23610), (425, 23700), (434, 23712), (455, 23769), (466, 23802), (476, 23835), (492, 23895), (500, 23919), (507, 23937), (545, 24111), (546, 24117), (560, 24165), (639, 24387), (663, 24468), (665, 24489),

Gene: Forza_104 Start: 62421, Stop: 64100, Start Num: 79
Candidate Starts for Forza_104:
(66, 62403), (Start: 79 @62421 has 5 MA's), (Start: 101 @62463 has 1 MA's), (106, 62472), (141, 62538), (142, 62541), (157, 62562), (207, 62673), (227, 62715), (284, 62853), (290, 62877), (389, 63123), (413, 63240), (430, 63267), (434, 63273), (455, 63327), (469, 63366), (500, 63477), (506,

63492), (508, 63501), (547, 63672), (554, 63693), (584, 63786), (633, 63894), (679, 64071),

Gene: Fosterous_36 Start: 33665, Stop: 35518, Start Num: 29
Candidate Starts for Fosterous_36:
(Start: 29 @33665 has 23 MA's), (69, 33800), (77, 33809), (94, 33842), (104, 33866), (136, 33935), (167, 34010), (245, 34202), (247, 34208), (257, 34229), (264, 34247), (270, 34259), (290, 34319), (344, 34400), (388, 34505), (389, 34508), (395, 34538), (409, 34613), (413, 34625), (425, 34655), (434, 34667), (452, 34712), (455, 34724), (459, 34742), (471, 34769), (491, 34847), (500, 34874), (508, 34898), (534, 35021), (544, 35063), (571, 35147), (581, 35177), (599, 35204), (619, 35258), (631, 35288), (649, 35360), (652, 35369),

Gene: Frickyeah_28 Start: 21884, Stop: 23719, Start Num: 30
Candidate Starts for Frickyeah_28:
(Start: 30 @21884 has 23 MA's), (85, 22046), (Start: 101 @22076 has 1 MA's), (129, 22130), (136, 22145), (Start: 140 @22157 has 1 MA's), (141, 22160), (150, 22175), (Start: 152 @22178 has 2 MA's), (153, 22181), (Start: 199 @22271 has 1 MA's), (202, 22280), (203, 22283), (240, 22370), (245, 22391), (247, 22397), (257, 22418), (260, 22427), (270, 22448), (273, 22454), (319, 22556), (321, 22559), (337, 22589), (343, 22601), (359, 22625), (363, 22634), (388, 22700), (392, 22712), (399, 22754), (405, 22787), (413, 22820), (416, 22826), (425, 22850), (434, 22862), (455, 22919), (459, 22937), (500, 23069), (508, 23093), (512, 23111), (545, 23264), (550, 23279), (554, 23294), (556, 23300), (571, 23345), (577, 23363), (581, 23375), (584, 23381), (592, 23393), (599, 23402), (619, 23456), (639, 23525), (649, 23558), (651, 23564), (665, 23627), (666, 23630), (671, 23648), (677, 23669), (679, 23678),

Gene: FroggyToad_25 Start: 20570, Stop: 22192, Start Num: 145
Candidate Starts for FroggyToad_25:
(Start: 145 @20570 has 7 MA's), (192, 20657), (207, 20699), (208, 20705), (222, 20732), (245, 20789), (257, 20816), (263, 20831), (285, 20885), (294, 20918), (351, 21077), (368, 21104), (389, 21173), (395, 21203), (420, 21302), (425, 21314), (434, 21326), (455, 21383), (466, 21416), (469, 21422), (489, 21497), (500, 21533), (534, 21683), (545, 21728), (665, 22097),

Gene: FuegoCuervo_39 Start: 31604, Stop: 33325, Start Num: 107
Candidate Starts for FuegoCuervo_39:
(Start: 107 @31604 has 30 MA's), (165, 31739), (169, 31748), (Start: 182 @31781 has 2 MA's), (192, 31805), (222, 31874), (237, 31904), (312, 32135), (327, 32174), (329, 32183), (336, 32198), (359, 32255), (371, 32279), (392, 32351), (406, 32438), (418, 32474), (421, 32480), (439, 32516), (441, 32522), (449, 32537), (496, 32690), (497, 32693), (522, 32777), (529, 32810), (535, 32858), (554, 32924), (556, 32930), (558, 32942), (570, 32972), (574, 32978), (587, 33014), (592, 33023), (612, 33068), (652, 33197),

Gene: GAL1_28 Start: 22722, Stop: 24629, Start Num: 23
Candidate Starts for GAL1_28:
(23, 22722), (28, 22764), (60, 22866), (64, 22887), (77, 22908), (94, 22941), (121, 22995), (130, 23013), (133, 23022), (135, 23025), (138, 23034), (153, 23061), (160, 23073), (191, 23136), (205, 23169), (210, 23190), (222, 23214), (228, 23226), (240, 23250), (285, 23367), (290, 23388), (294, 23400), (347, 23526), (368, 23562), (388, 23628), (389, 23631), (392, 23640), (399, 23682), (425, 23772), (434, 23784), (449, 23820), (455, 23841), (476, 23907), (500, 23991), (545, 24183), (546, 24189), (550, 24198), (639, 24459),

Gene: Gabriela_20 Start: 19228, Stop: 21024, Start Num: 53
Candidate Starts for Gabriela_20:
(Start: 51 @19225 has 5 MA's), (Start: 53 @19228 has 27 MA's), (125, 19381), (136, 19405), (Start: 176 @19501 has 1 MA's), (180, 19510), (202, 19555), (212, 19585), (225, 19612), (262, 19705), (275,

19729), (300, 19813), (314, 19858), (377, 20014), (383, 20032), (386, 20047), (390, 20065), (391, 20068), (404, 20146), (424, 20203), (429, 20209), (461, 20293), (465, 20302), (509, 20440), (511, 20443), (551, 20611), (576, 20686), (578, 20695), (590, 20722), (600, 20740), (605, 20755), (611, 20770), (617, 20785), (620, 20791), (641, 20869), (642, 20872), (658, 20920), (680, 21007),

Gene: Gaea_36 Start: 31801, Stop: 33522, Start Num: 107
Candidate Starts for Gaea_36:
(Start: 107 @31801 has 30 MA's), (162, 31924), (165, 31936), (192, 32002), (222, 32071), (239, 32107), (312, 32332), (327, 32371), (349, 32431), (371, 32476), (388, 32536), (418, 32671), (421, 32677), (441, 32719), (449, 32734), (458, 32770), (470, 32791), (497, 32890), (522, 32974), (529, 33007), (535, 33055), (545, 33091), (556, 33127), (558, 33139), (563, 33154), (574, 33175), (612, 33265),

Gene: Galadriel_38 Start: 34154, Stop: 36079, Start Num: 29
Candidate Starts for Galadriel_38:
(Start: 29 @34154 has 23 MA's), (69, 34289), (77, 34298), (94, 34331), (104, 34355), (136, 34424), (167, 34499), (245, 34691), (247, 34697), (257, 34718), (264, 34736), (270, 34748), (290, 34808), (308, 34862), (359, 34979), (388, 35066), (399, 35120), (409, 35174), (413, 35186), (425, 35216), (434, 35228), (452, 35273), (455, 35285), (459, 35303), (471, 35330), (491, 35408), (500, 35435), (508, 35459), (534, 35582), (544, 35624), (571, 35708), (581, 35738), (599, 35765), (619, 35819), (631, 35849), (649, 35921), (652, 35930),

Gene: Gardann_20 Start: 19233, Stop: 21029, Start Num: 53
Candidate Starts for Gardann_20:
(Start: 51 @19230 has 5 MA's), (Start: 53 @19233 has 27 MA's), (125, 19386), (136, 19410), (Start: 176 @19506 has 1 MA's), (180, 19515), (201, 19557), (202, 19560), (212, 19590), (225, 19617), (262, 19710), (275, 19734), (300, 19818), (314, 19863), (329, 19899), (377, 20019), (383, 20037), (386, 20052), (390, 20070), (391, 20073), (404, 20151), (424, 20208), (426, 20211), (429, 20214), (461, 20298), (465, 20307), (474, 20334), (509, 20445), (511, 20448), (551, 20616), (576, 20691), (578, 20700), (590, 20727), (605, 20760), (611, 20775), (617, 20790), (620, 20796), (641, 20874), (642, 20877), (658, 20925), (680, 21012),

Gene: Geeche_55 Start: 35218, Stop: 37050, Start Num: 52
Candidate Starts for Geeche_55:
(Start: 52 @35218 has 17 MA's), (103, 35323), (Start: 107 @35332 has 30 MA's), (137, 35386), (178, 35476), (194, 35515), (202, 35533), (249, 35617), (277, 35686), (375, 35956), (410, 36118), (450, 36202), (452, 36208), (488, 36328), (555, 36604), (566, 36661), (569, 36667), (616, 36784), (627, 36811), (648, 36895), (667, 36964),

Gene: GemG_25 Start: 20505, Stop: 22028, Start Num: 189
Candidate Starts for GemG_25:
(Start: 189 @20505 has 19 MA's), (219, 20577), (226, 20589), (240, 20616), (242, 20622), (246, 20640), (295, 20760), (298, 20769), (323, 20835), (378, 20949), (389, 20991), (395, 21021), (401, 21051), (414, 21111), (420, 21117), (434, 21141), (444, 21165), (452, 21183), (455, 21195), (459, 21213), (466, 21228), (469, 21234), (483, 21285), (490, 21312), (508, 21363), (541, 21531), (579, 21669), (588, 21690), (589, 21693), (595, 21705), (610, 21744), (653, 21891), (665, 21951), (666, 21954),

Gene: Geodirt_35 Start: 33142, Stop: 34863, Start Num: 107
Candidate Starts for Geodirt_35:
(Start: 107 @33142 has 30 MA's), (165, 33277), (169, 33286), (Start: 182 @33319 has 2 MA's), (192, 33343), (222, 33412), (251, 33487), (312, 33673), (327, 33712), (329, 33721), (359, 33793), (371, 33817), (392, 33889), (406, 33976), (418, 34012), (421, 34018), (441, 34060), (449, 34075), (452,

34084), (497, 34231), (522, 34315), (529, 34348), (535, 34396), (554, 34462), (556, 34468), (558, 34480), (570, 34510), (574, 34516), (587, 34552), (592, 34561), (612, 34606),

Gene: Getalong_30 Start: 22921, Stop: 24756, Start Num: 30
Candidate Starts for Getalong_30:
(Start: 30 @22921 has 23 MA's), (85, 23083), (Start: 101 @23113 has 1 MA's), (129, 23167), (136, 23182), (Start: 140 @23194 has 1 MA's), (141, 23197), (150, 23212), (Start: 152 @23215 has 2 MA's), (153, 23218), (Start: 199 @23308 has 1 MA's), (202, 23317), (203, 23320), (240, 23407), (245, 23428), (247, 23434), (257, 23455), (260, 23464), (270, 23485), (273, 23491), (319, 23593), (321, 23596), (337, 23626), (343, 23638), (359, 23662), (388, 23737), (392, 23749), (399, 23791), (405, 23824), (413, 23857), (416, 23863), (425, 23887), (434, 23899), (455, 23956), (459, 23974), (500, 24106), (508, 24130), (512, 24148), (545, 24301), (550, 24316), (553, 24328), (554, 24331), (556, 24337), (571, 24382), (577, 24400), (581, 24412), (584, 24418), (592, 24430), (599, 24439), (619, 24493), (639, 24562), (649, 24595), (651, 24601), (665, 24664), (666, 24667), (671, 24685), (677, 24706), (679, 24715),

Gene: Gezellig_33 Start: 28352, Stop: 30274, Start Num: 27
Candidate Starts for Gezellig_33:
(Start: 27 @28352 has 17 MA's), (63, 28475), (69, 28496), (98, 28544), (Start: 146 @28652 has 1 MA's), (157, 28673), (Start: 199 @28754 has 1 MA's), (208, 28790), (210, 28793), (244, 28871), (245, 28874), (247, 28880), (257, 28901), (270, 28931), (273, 28937), (317, 29072), (351, 29159), (359, 29168), (362, 29174), (364, 29180), (388, 29255), (395, 29288), (399, 29309), (416, 29381), (425, 29405), (434, 29417), (455, 29474), (500, 29624), (508, 29648), (545, 29816), (550, 29831), (581, 29927), (628, 30038), (638, 30074),

Gene: Gibbles_26 Start: 31491, Stop: 33176, Start Num: 117
Candidate Starts for Gibbles_26:
(Start: 117 @31491 has 5 MA's), (Start: 145 @31554 has 7 MA's), (163, 31599), (Start: 176 @31635 has 1 MA's), (187, 31665), (283, 31914), (310, 32007), (346, 32076), (376, 32133), (378, 32139), (384, 32160), (388, 32178), (401, 32241), (485, 32469), (505, 32538), (506, 32541), (508, 32550), (524, 32616), (543, 32727), (573, 32820), (579, 32841), (652, 33039), (662, 33072),

Gene: Gizermo_25 Start: 20505, Stop: 22028, Start Num: 189
Candidate Starts for Gizermo_25:
(Start: 189 @20505 has 19 MA's), (219, 20577), (226, 20589), (240, 20616), (242, 20622), (246, 20640), (295, 20760), (298, 20769), (323, 20835), (378, 20949), (389, 20991), (395, 21021), (401, 21051), (414, 21111), (420, 21117), (434, 21141), (444, 21165), (452, 21183), (455, 21195), (459, 21213), (466, 21228), (469, 21234), (483, 21285), (490, 21312), (508, 21363), (541, 21531), (579, 21669), (588, 21690), (589, 21693), (595, 21705), (610, 21744), (653, 21891), (665, 21951), (666, 21954),

Gene: GodonK_92 Start: 54828, Stop: 56522, Start Num: 79
Candidate Starts for GodonK_92:
(Start: 79 @54828 has 5 MA's), (86, 54846), (Start: 89 @54852 has 2 MA's), (138, 54942), (141, 54948), (142, 54951), (157, 54972), (227, 55125), (230, 55128), (244, 55167), (284, 55263), (285, 55266), (294, 55299), (331, 55404), (364, 55455), (388, 55530), (399, 55584), (406, 55620), (421, 55662), (430, 55677), (500, 55887), (508, 55911), (534, 56043), (554, 56115), (583, 56205), (597, 56229), (601, 56238), (604, 56244), (608, 56262), (633, 56313),

Gene: Groundhog_27 Start: 21477, Stop: 23198, Start Num: 78
Candidate Starts for Groundhog_27:
(Start: 78 @21477 has 14 MA's), (148, 21621), (154, 21636), (Start: 197 @21735 has 1 MA's), (244, 21825), (256, 21861), (264, 21882), (289, 21954), (296, 21978), (314, 22032), (360, 22134), (391,

22230), (400, 22284), (409, 22332), (466, 22461), (473, 22479), (511, 22605), (560, 22809), (562, 22818), (592, 22899), (632, 22995), (659, 23094), (681, 23181),

Gene: Gustavo_36 Start: 31956, Stop: 33677, Start Num: 107
Candidate Starts for Gustavo_36:
(Start: 107 @31956 has 30 MA's), (162, 32079), (165, 32091), (192, 32157), (222, 32226), (239, 32262), (251, 32301), (312, 32487), (327, 32526), (349, 32586), (371, 32631), (388, 32691), (418, 32826), (421, 32832), (441, 32874), (449, 32889), (458, 32925), (470, 32946), (497, 33045), (522, 33129), (529, 33162), (534, 33207), (535, 33210), (545, 33246), (556, 33282), (558, 33294), (574, 33330), (587, 33366), (612, 33420),

Gene: GuuelaD_20 Start: 19262, Stop: 21058, Start Num: 53
Candidate Starts for GuuelaD_20:
(Start: 51 @19259 has 5 MA's), (Start: 53 @19262 has 27 MA's), (125, 19415), (136, 19439), (166, 19514), (Start: 176 @19535 has 1 MA's), (180, 19544), (225, 19646), (262, 19739), (275, 19763), (300, 19847), (314, 19892), (329, 19928), (336, 19943), (377, 20048), (386, 20081), (390, 20099), (391, 20102), (396, 20141), (404, 20180), (426, 20240), (429, 20243), (461, 20327), (465, 20336), (474, 20363), (509, 20474), (551, 20645), (576, 20720), (578, 20729), (590, 20756), (605, 20789), (611, 20804), (617, 20819), (620, 20825), (641, 20903), (642, 20906), (658, 20954), (680, 21041),

Gene: Hafay_20 Start: 19261, Stop: 21057, Start Num: 53
Candidate Starts for Hafay_20:
(Start: 51 @19258 has 5 MA's), (Start: 53 @19261 has 27 MA's), (125, 19414), (136, 19438), (Start: 176 @19534 has 1 MA's), (180, 19543), (201, 19585), (202, 19588), (212, 19618), (225, 19645), (262, 19738), (275, 19762), (300, 19846), (314, 19891), (329, 19927), (377, 20047), (383, 20065), (386, 20080), (390, 20098), (391, 20101), (404, 20179), (424, 20236), (426, 20239), (429, 20242), (461, 20326), (465, 20335), (474, 20362), (509, 20473), (511, 20476), (551, 20644), (576, 20719), (578, 20728), (590, 20755), (605, 20788), (611, 20803), (617, 20818), (620, 20824), (641, 20902), (642, 20905), (680, 21040),

Gene: Haley23_25 Start: 20505, Stop: 22028, Start Num: 189
Candidate Starts for Haley23_25:
(Start: 189 @20505 has 19 MA's), (219, 20577), (226, 20589), (240, 20616), (242, 20622), (246, 20640), (295, 20760), (298, 20769), (323, 20835), (378, 20949), (389, 20991), (395, 21021), (401, 21051), (414, 21111), (420, 21117), (434, 21141), (444, 21165), (452, 21183), (455, 21195), (459, 21213), (466, 21228), (469, 21234), (483, 21285), (490, 21312), (508, 21363), (541, 21531), (579, 21669), (588, 21690), (589, 21693), (595, 21705), (610, 21744), (653, 21891), (665, 21951), (666, 21954),

Gene: Halo3_34 Start: 28645, Stop: 30567, Start Num: 27
Candidate Starts for Halo3_34:
(Start: 27 @28645 has 17 MA's), (63, 28768), (69, 28789), (98, 28837), (Start: 146 @28945 has 1 MA's), (157, 28966), (Start: 199 @29047 has 1 MA's), (208, 29083), (210, 29086), (244, 29164), (245, 29167), (247, 29173), (257, 29194), (270, 29224), (273, 29230), (317, 29365), (351, 29452), (359, 29461), (362, 29467), (364, 29473), (395, 29581), (399, 29602), (416, 29674), (425, 29698), (434, 29710), (455, 29767), (500, 29917), (508, 29941), (545, 30109), (550, 30124), (581, 30220), (628, 30331), (638, 30367),

Gene: Heinz_25 Start: 19746, Stop: 21263, Start Num: 183
Candidate Starts for Heinz_25:
(Start: 183 @19746 has 2 MA's), (232, 19845), (266, 19941), (274, 19956), (276, 19962), (303, 20055), (317, 20097), (321, 20106), (357, 20190), (367, 20211), (399, 20331), (406, 20370), (413, 20400), (431, 20427), (442, 20454), (452, 20478), (469, 20526), (472, 20535), (473, 20538), (496, 20625),

(497, 20628), (522, 20712), (568, 20919), (609, 21015), (628, 21063), (638, 21099), (643, 21123), (660, 21162), (676, 21234), (681, 21249),

Gene: Herbertwm_29 Start: 21904, Stop: 23925, Start Num: 21
Candidate Starts for Herbertwm_29:
(Start: 21 @21904 has 2 MA's), (46, 22018), (67, 22090), (123, 22192), (156, 22273), (178, 22330), (200, 22378), (243, 22480), (264, 22540), (314, 22690), (322, 22708), (329, 22726), (352, 22783), (373, 22822), (389, 22885), (391, 22891), (392, 22894), (397, 22936), (466, 23122), (469, 23128), (474, 23146), (503, 23239), (525, 23323), (557, 23467), (579, 23557), (605, 23614), (617, 23650), (637, 23698), (640, 23728), (641, 23731), (665, 23818), (685, 23893),

Gene: Herod_26 Start: 22926, Stop: 24431, Start Num: 195
Candidate Starts for Herod_26:
(Start: 61 @22611 has 2 MA's), (109, 22719), (138, 22788), (Start: 140 @22791 has 1 MA's), (150, 22815), (153, 22821), (Start: 195 @22926 has 29 MA's), (223, 22995), (229, 23007), (271, 23118), (274, 23124), (276, 23130), (278, 23136), (303, 23223), (314, 23259), (317, 23265), (321, 23274), (413, 23568), (442, 23622), (444, 23625), (452, 23646), (467, 23691), (497, 23796), (522, 23880), (534, 23961), (535, 23964), (609, 24183), (628, 24231), (643, 24291), (657, 24324), (660, 24330), (676, 24402),

Gene: Hibiscus_25 Start: 19694, Stop: 21211, Start Num: 183
Candidate Starts for Hibiscus_25:
(Start: 183 @19694 has 2 MA's), (232, 19793), (266, 19889), (274, 19904), (276, 19910), (303, 20003), (317, 20045), (321, 20054), (357, 20138), (367, 20159), (399, 20279), (406, 20318), (413, 20348), (431, 20375), (442, 20402), (452, 20426), (469, 20474), (472, 20483), (473, 20486), (496, 20573), (497, 20576), (522, 20660), (568, 20867), (609, 20963), (628, 21011), (638, 21047), (643, 21071), (660, 21110), (676, 21182), (681, 21197),

Gene: Hiraya_20 Start: 19228, Stop: 21024, Start Num: 53
Candidate Starts for Hiraya_20:
(Start: 51 @19225 has 5 MA's), (Start: 53 @19228 has 27 MA's), (125, 19381), (136, 19405), (Start: 176 @19501 has 1 MA's), (180, 19510), (201, 19552), (202, 19555), (212, 19585), (225, 19612), (262, 19705), (275, 19729), (300, 19813), (314, 19858), (329, 19894), (377, 20014), (383, 20032), (386, 20047), (390, 20065), (391, 20068), (404, 20146), (424, 20203), (426, 20206), (429, 20209), (461, 20293), (465, 20302), (474, 20329), (509, 20440), (511, 20443), (551, 20611), (576, 20686), (578, 20695), (590, 20722), (605, 20755), (611, 20770), (617, 20785), (620, 20791), (641, 20869), (642, 20872), (658, 20920), (680, 21007),

Gene: Holliday_29 Start: 22226, Stop: 24061, Start Num: 30
Candidate Starts for Holliday_29:
(Start: 30 @22226 has 23 MA's), (85, 22388), (Start: 101 @22418 has 1 MA's), (129, 22472), (136, 22487), (Start: 140 @22499 has 1 MA's), (141, 22502), (150, 22517), (Start: 152 @22520 has 2 MA's), (153, 22523), (Start: 199 @22613 has 1 MA's), (202, 22622), (203, 22625), (240, 22712), (245, 22733), (247, 22739), (257, 22760), (260, 22769), (270, 22790), (273, 22796), (319, 22898), (321, 22901), (337, 22931), (343, 22943), (359, 22967), (388, 23042), (392, 23054), (399, 23096), (405, 23129), (413, 23162), (416, 23168), (425, 23192), (434, 23204), (455, 23261), (459, 23279), (500, 23411), (508, 23435), (512, 23453), (545, 23606), (550, 23621), (553, 23633), (554, 23636), (556, 23642), (571, 23687), (577, 23705), (581, 23717), (584, 23723), (592, 23735), (599, 23744), (619, 23798), (639, 23867), (649, 23900), (651, 23906), (665, 23969), (666, 23972), (671, 23990), (677, 24011), (679, 24020),

Gene: Horus_29 Start: 22143, Stop: 23978, Start Num: 30
Candidate Starts for Horus_29:

(Start: 30 @22143 has 23 MA's), (85, 22305), (Start: 101 @22335 has 1 MA's), (129, 22389), (136, 22404), (Start: 140 @22416 has 1 MA's), (141, 22419), (150, 22434), (Start: 152 @22437 has 2 MA's), (153, 22440), (Start: 199 @22530 has 1 MA's), (202, 22539), (203, 22542), (240, 22629), (245, 22650), (247, 22656), (257, 22677), (260, 22686), (270, 22707), (273, 22713), (319, 22815), (321, 22818), (337, 22848), (343, 22860), (359, 22884), (363, 22893), (388, 22959), (392, 22971), (399, 23013), (405, 23046), (413, 23079), (416, 23085), (425, 23109), (434, 23121), (455, 23178), (459, 23196), (500, 23328), (508, 23352), (512, 23370), (545, 23523), (550, 23538), (554, 23553), (556, 23559), (571, 23604), (577, 23622), (581, 23634), (584, 23640), (592, 23652), (599, 23661), (619, 23715), (639, 23784), (649, 23817), (651, 23823), (665, 23886), (666, 23889), (671, 23907), (677, 23928), (679, 23937),

Gene: Hugley_26 Start: 22926, Stop: 24431, Start Num: 195
Candidate Starts for Hugley_26:
(Start: 61 @22611 has 2 MA's), (109, 22719), (138, 22788), (Start: 140 @22791 has 1 MA's), (150, 22815), (153, 22821), (Start: 195 @22926 has 29 MA's), (223, 22995), (229, 23007), (271, 23118), (274, 23124), (276, 23130), (278, 23136), (303, 23223), (314, 23259), (317, 23265), (321, 23274), (413, 23568), (442, 23622), (444, 23625), (452, 23646), (467, 23691), (497, 23796), (522, 23880), (534, 23961), (535, 23964), (609, 24183), (628, 24231), (643, 24291), (657, 24324), (660, 24330), (676, 24402),

Gene: Hyzer_28 Start: 23631, Stop: 25250, Start Num: 152
Candidate Starts for Hyzer_28:
(72, 23460), (75, 23463), (Start: 152 @23631 has 2 MA's), (181, 23709), (184, 23712), (Start: 197 @23739 has 1 MA's), (232, 23823), (238, 23838), (240, 23841), (259, 23892), (282, 23937), (295, 23985), (324, 24063), (378, 24174), (389, 24216), (395, 24246), (401, 24276), (434, 24366), (444, 24390), (452, 24408), (455, 24420), (459, 24438), (466, 24453), (469, 24459), (483, 24510), (490, 24537), (508, 24588), (530, 24678), (541, 24756), (554, 24798), (568, 24858), (579, 24894), (588, 24915), (589, 24918), (595, 24930), (610, 24969), (665, 25176), (666, 25179), (674, 25203),

Gene: InLimbo_26 Start: 20143, Stop: 21978, Start Num: 38
Candidate Starts for InLimbo_26:
(Start: 38 @20143 has 3 MA's), (88, 20287), (97, 20299), (113, 20332), (116, 20338), (131, 20362), (136, 20374), (161, 20419), (177, 20449), (180, 20455), (245, 20599), (247, 20605), (264, 20644), (270, 20656), (273, 20662), (290, 20716), (388, 20971), (389, 20974), (399, 21025), (406, 21061), (413, 21091), (416, 21097), (425, 21121), (434, 21133), (455, 21190), (459, 21208), (500, 21340), (502, 21346), (508, 21364), (545, 21532), (571, 21613), (587, 21655), (599, 21670), (628, 21751), (638, 21787), (664, 21886),

Gene: Itos_20 Start: 19225, Stop: 21024, Start Num: 51
Candidate Starts for Itos_20:
(Start: 51 @19225 has 5 MA's), (Start: 53 @19228 has 27 MA's), (125, 19381), (136, 19405), (Start: 176 @19501 has 1 MA's), (180, 19510), (202, 19555), (212, 19585), (225, 19612), (262, 19705), (275, 19729), (300, 19813), (314, 19858), (377, 20014), (383, 20032), (386, 20047), (390, 20065), (391, 20068), (404, 20146), (424, 20203), (429, 20209), (461, 20293), (465, 20302), (509, 20440), (511, 20443), (551, 20611), (576, 20686), (578, 20695), (590, 20722), (600, 20740), (605, 20755), (611, 20770), (617, 20785), (620, 20791), (641, 20869), (642, 20872), (658, 20920), (680, 21007),

Gene: JCole_23 Start: 19364, Stop: 20980, Start Num: 145
Candidate Starts for JCole_23:
(Start: 145 @19364 has 7 MA's), (179, 19436), (191, 19448), (208, 19496), (240, 19559), (245, 19580), (255, 19601), (260, 19616), (270, 19637), (273, 19643), (317, 19778), (320, 19787), (336, 19826), (339, 19835), (362, 19880), (364, 19886), (388, 19961), (395, 19994), (399, 20015), (413, 20081), (425, 20111), (434, 20123), (452, 20168), (459, 20198), (495, 20315), (500, 20330), (508, 20354),

(519, 20396), (544, 20522), (545, 20525), (558, 20573), (581, 20636), (652, 20831), (658, 20855), (663, 20870), (665, 20891),

Gene: JKSyngboy_34 Start: 32531, Stop: 34252, Start Num: 107
Candidate Starts for JKSyngboy_34:
(Start: 107 @32531 has 30 MA's), (162, 32654), (165, 32666), (192, 32732), (222, 32801), (239, 32837), (312, 33062), (327, 33101), (349, 33161), (371, 33206), (388, 33266), (412, 33392), (418, 33401), (421, 33407), (441, 33449), (449, 33464), (452, 33473), (458, 33500), (470, 33521), (497, 33620), (522, 33704), (556, 33857), (558, 33869), (563, 33884), (574, 33905), (612, 33995), (639, 34088),

Gene: JSwag_33 Start: 21729, Stop: 23441, Start Num: 49
Candidate Starts for JSwag_33:
(Start: 49 @21729 has 23 MA's), (90, 21822), (158, 21972), (172, 22011), (184, 22041), (249, 22167), (250, 22170), (298, 22308), (317, 22365), (358, 22410), (380, 22416), (394, 22482), (404, 22536), (450, 22650), (455, 22668), (460, 22686), (484, 22743), (531, 22920), (569, 23079), (581, 23115), (629, 23232), (641, 23283), (661, 23343), (667, 23379), (681, 23427),

Gene: Jabberwocky_35 Start: 33678, Stop: 35399, Start Num: 107
Candidate Starts for Jabberwocky_35:
(Start: 107 @33678 has 30 MA's), (165, 33813), (Start: 182 @33855 has 2 MA's), (192, 33879), (251, 34023), (312, 34209), (327, 34248), (329, 34257), (359, 34329), (371, 34353), (392, 34425), (406, 34512), (418, 34548), (421, 34554), (441, 34596), (449, 34611), (452, 34620), (497, 34767), (522, 34851), (529, 34884), (535, 34932), (554, 34998), (556, 35004), (558, 35016), (570, 35046), (574, 35052), (587, 35088), (592, 35097), (612, 35142),

Gene: Jace_22 Start: 18242, Stop: 20116, Start Num: 68
Candidate Starts for Jace_22:
(Start: 68 @18242 has 1 MA's), (221, 18596), (231, 18614), (236, 18626), (244, 18653), (290, 18788), (312, 18866), (318, 18878), (329, 18914), (375, 19028), (376, 19031), (383, 19052), (405, 19166), (454, 19280), (470, 19328), (515, 19490), (536, 19634), (542, 19658), (552, 19685), (587, 19796), (643, 19967), (645, 19973), (646, 19979),

Gene: Jalleen_25 Start: 20144, Stop: 21667, Start Num: 189
Candidate Starts for Jalleen_25:
(Start: 189 @20144 has 19 MA's), (219, 20216), (226, 20228), (240, 20255), (246, 20279), (295, 20399), (298, 20408), (323, 20474), (378, 20588), (389, 20630), (395, 20660), (401, 20690), (420, 20756), (434, 20780), (444, 20804), (452, 20822), (455, 20834), (459, 20852), (466, 20867), (469, 20873), (483, 20924), (490, 20951), (508, 21002), (541, 21170), (579, 21308), (588, 21329), (589, 21332), (595, 21344), (610, 21383), (653, 21530), (665, 21590), (666, 21593),

Gene: Jambalaya_33 Start: 27999, Stop: 29921, Start Num: 27
Candidate Starts for Jambalaya_33:
(Start: 27 @27999 has 17 MA's), (63, 28122), (69, 28143), (98, 28191), (Start: 146 @28299 has 1 MA's), (157, 28320), (Start: 199 @28401 has 1 MA's), (208, 28437), (210, 28440), (244, 28518), (245, 28521), (247, 28527), (257, 28548), (270, 28578), (273, 28584), (317, 28719), (351, 28806), (359, 28815), (362, 28821), (364, 28827), (388, 28902), (395, 28935), (399, 28956), (416, 29028), (425, 29052), (434, 29064), (455, 29121), (500, 29271), (508, 29295), (545, 29463), (550, 29478), (581, 29574), (628, 29685), (638, 29721),

Gene: Jojo24_25 Start: 19691, Stop: 21388, Start Num: 91
Candidate Starts for Jojo24_25:

(59, 19616), (Start: 91 @19691 has 2 MA's), (141, 19790), (191, 19886), (Start: 199 @19901 has 1 MA's), (201, 19907), (244, 20018), (245, 20021), (247, 20027), (257, 20048), (264, 20066), (274, 20084), (285, 20117), (290, 20138), (306, 20186), (335, 20255), (358, 20291), (359, 20294), (388, 20375), (392, 20387), (399, 20429), (420, 20510), (421, 20513), (425, 20522), (434, 20534), (449, 20570), (455, 20591), (459, 20609), (466, 20624), (500, 20741), (508, 20765), (512, 20783), (545, 20936), (571, 21035), (577, 21053), (581, 21065), (599, 21092), (659, 21269), (667, 21308),

Gene: JonJames_55 Start: 39392, Stop: 41158, Start Num: 55
Candidate Starts for JonJames_55:
(Start: 55 @39392 has 2 MA's), (63, 39413), (203, 39707), (207, 39725), (210, 39734), (226, 39767), (257, 39851), (293, 39950), (351, 40097), (368, 40118), (388, 40184), (393, 40202), (401, 40247), (455, 40391), (469, 40430), (500, 40541), (532, 40667), (554, 40763), (565, 40805), (568, 40811), (584, 40853), (586, 40856),

Gene: Kahlid_20 Start: 19233, Stop: 21029, Start Num: 53
Candidate Starts for Kahlid_20:
(Start: 51 @19230 has 5 MA's), (Start: 53 @19233 has 27 MA's), (125, 19386), (136, 19410), (Start: 176 @19506 has 1 MA's), (180, 19515), (201, 19557), (202, 19560), (212, 19590), (225, 19617), (262, 19710), (275, 19734), (300, 19818), (314, 19863), (329, 19899), (377, 20019), (383, 20037), (386, 20052), (390, 20070), (391, 20073), (404, 20151), (424, 20208), (426, 20211), (429, 20214), (461, 20298), (465, 20307), (474, 20334), (509, 20445), (511, 20448), (551, 20616), (576, 20691), (578, 20700), (590, 20727), (605, 20760), (611, 20775), (617, 20790), (620, 20796), (641, 20874), (642, 20877), (658, 20925), (680, 21012),

Gene: Kamaru_29 Start: 22226, Stop: 24061, Start Num: 30
Candidate Starts for Kamaru_29:
(Start: 30 @22226 has 23 MA's), (85, 22388), (Start: 101 @22418 has 1 MA's), (129, 22472), (136, 22487), (Start: 140 @22499 has 1 MA's), (141, 22502), (150, 22517), (Start: 152 @22520 has 2 MA's), (153, 22523), (Start: 199 @22613 has 1 MA's), (202, 22622), (203, 22625), (240, 22712), (245, 22733), (247, 22739), (257, 22760), (260, 22769), (270, 22790), (273, 22796), (319, 22898), (321, 22901), (337, 22931), (343, 22943), (359, 22967), (388, 23042), (392, 23054), (399, 23096), (405, 23129), (413, 23162), (416, 23168), (425, 23192), (434, 23204), (455, 23261), (459, 23279), (500, 23411), (508, 23435), (512, 23453), (545, 23606), (550, 23621), (553, 23633), (554, 23636), (556, 23642), (571, 23687), (577, 23705), (581, 23717), (584, 23723), (592, 23735), (599, 23744), (619, 23798), (639, 23867), (649, 23900), (651, 23906), (665, 23969), (666, 23972), (671, 23990), (677, 24011), (679, 24020),

Gene: Kamashten_36 Start: 33130, Stop: 35052, Start Num: 29
Candidate Starts for Kamashten_36:
(Start: 29 @33130 has 23 MA's), (69, 33265), (77, 33274), (94, 33307), (104, 33331), (136, 33400), (167, 33475), (245, 33667), (247, 33673), (257, 33694), (264, 33712), (270, 33724), (290, 33784), (308, 33838), (359, 33952), (388, 34039), (399, 34093), (409, 34147), (413, 34159), (425, 34189), (434, 34201), (452, 34246), (455, 34258), (459, 34276), (471, 34303), (491, 34381), (500, 34408), (508, 34432), (534, 34555), (544, 34597), (571, 34681), (581, 34711), (599, 34738), (619, 34792), (631, 34822), (649, 34894), (652, 34903),

Gene: Kampe_27 Start: 31352, Stop: 33037, Start Num: 117
Candidate Starts for Kampe_27:
(Start: 117 @31352 has 5 MA's), (Start: 145 @31415 has 7 MA's), (163, 31460), (Start: 176 @31496 has 1 MA's), (187, 31526), (283, 31775), (310, 31868), (346, 31937), (376, 31994), (378, 32000), (384, 32021), (388, 32039), (401, 32102), (485, 32330), (508, 32411), (524, 32477), (543, 32588), (573, 32681), (579, 32702), (652, 32900), (662, 32933),

Gene: KatherineG_33 Start: 21865, Stop: 23577, Start Num: 49
Candidate Starts for KatherineG_33:
(Start: 49 @21865 has 23 MA's), (90, 21958), (158, 22108), (172, 22147), (184, 22177), (249, 22303), (250, 22306), (298, 22444), (317, 22501), (358, 22546), (380, 22552), (394, 22618), (404, 22672), (450, 22786), (455, 22804), (460, 22822), (484, 22879), (531, 23056), (569, 23215), (581, 23251), (629, 23368), (641, 23419), (661, 23479), (667, 23515), (681, 23563),

Gene: Keitabear_38 Start: 35100, Stop: 37022, Start Num: 29
Candidate Starts for Keitabear_38:
(Start: 29 @35100 has 23 MA's), (69, 35235), (94, 35277), (104, 35301), (136, 35370), (167, 35445), (245, 35637), (247, 35643), (257, 35664), (264, 35682), (270, 35694), (290, 35754), (308, 35808), (359, 35922), (388, 36009), (399, 36063), (413, 36129), (425, 36159), (434, 36171), (452, 36216), (455, 36228), (459, 36246), (471, 36273), (491, 36351), (500, 36378), (508, 36402), (534, 36525), (544, 36567), (571, 36651), (581, 36681), (619, 36762), (631, 36792), (649, 36864), (652, 36873),

Gene: Kenna_28 Start: 22119, Stop: 23954, Start Num: 30
Candidate Starts for Kenna_28:
(Start: 30 @22119 has 23 MA's), (85, 22281), (Start: 101 @22311 has 1 MA's), (129, 22365), (136, 22380), (Start: 140 @22392 has 1 MA's), (141, 22395), (150, 22410), (Start: 152 @22413 has 2 MA's), (153, 22416), (Start: 199 @22506 has 1 MA's), (202, 22515), (203, 22518), (240, 22605), (245, 22626), (247, 22632), (257, 22653), (260, 22662), (270, 22683), (273, 22689), (319, 22791), (321, 22794), (337, 22824), (343, 22836), (359, 22860), (388, 22935), (392, 22947), (399, 22989), (405, 23022), (413, 23055), (416, 23061), (425, 23085), (434, 23097), (455, 23154), (459, 23172), (500, 23304), (508, 23328), (512, 23346), (545, 23499), (550, 23514), (554, 23529), (556, 23535), (571, 23580), (577, 23598), (581, 23610), (584, 23616), (592, 23628), (599, 23637), (619, 23691), (639, 23760), (649, 23793), (651, 23799), (665, 23862), (666, 23865), (671, 23883), (677, 23904), (679, 23913),

Gene: Kewpiedoll_36 Start: 32537, Stop: 34258, Start Num: 107
Candidate Starts for Kewpiedoll_36:
(Start: 107 @32537 has 30 MA's), (165, 32672), (169, 32681), (Start: 182 @32714 has 2 MA's), (192, 32738), (222, 32807), (251, 32882), (312, 33068), (327, 33107), (329, 33116), (336, 33131), (359, 33188), (371, 33212), (392, 33284), (406, 33371), (418, 33407), (421, 33413), (441, 33455), (449, 33470), (452, 33479), (497, 33626), (522, 33710), (529, 33743), (535, 33791), (554, 33857), (556, 33863), (558, 33875), (570, 33905), (574, 33911), (587, 33947), (592, 33956), (612, 34001),

Gene: KimmyK_35 Start: 28934, Stop: 30856, Start Num: 27
Candidate Starts for KimmyK_35:
(Start: 27 @28934 has 17 MA's), (63, 29057), (69, 29078), (98, 29126), (Start: 146 @29234 has 1 MA's), (157, 29255), (Start: 199 @29336 has 1 MA's), (208, 29372), (210, 29375), (244, 29453), (245, 29456), (247, 29462), (257, 29483), (270, 29513), (273, 29519), (317, 29654), (351, 29741), (359, 29750), (362, 29756), (364, 29762), (388, 29837), (395, 29870), (399, 29891), (416, 29963), (425, 29987), (434, 29999), (455, 30056), (500, 30206), (508, 30230), (545, 30398), (550, 30413), (581, 30509), (628, 30620), (638, 30656),

Gene: Kita_28 Start: 22923, Stop: 24428, Start Num: 195
Candidate Starts for Kita_28:
(Start: 195 @22923 has 29 MA's), (223, 22992), (229, 23004), (271, 23115), (276, 23127), (278, 23133), (303, 23220), (314, 23256), (317, 23262), (321, 23271), (413, 23565), (442, 23619), (444, 23622), (452, 23643), (467, 23688), (497, 23793), (522, 23877), (534, 23958), (535, 23961), (568, 24084), (609, 24180), (628, 24228), (643, 24288), (657, 24321), (660, 24327), (676, 24399),

Gene: Kroos_37 Start: 32709, Stop: 34430, Start Num: 107
Candidate Starts for Kroos_37:

(Start: 107 @32709 has 30 MA's), (162, 32832), (165, 32844), (192, 32910), (222, 32979), (239, 33015), (251, 33054), (312, 33240), (327, 33279), (349, 33339), (371, 33384), (388, 33444), (418, 33579), (421, 33585), (441, 33627), (449, 33642), (458, 33678), (470, 33699), (497, 33798), (522, 33882), (529, 33915), (534, 33960), (535, 33963), (545, 33999), (556, 34035), (558, 34047), (574, 34083), (587, 34119), (612, 34173),

Gene: Kudefre_29 Start: 24004, Stop: 25656, Start Num: 100
Candidate Starts for Kudefre_29:
(81, 23965), (Start: 100 @24004 has 6 MA's), (114, 24025), (192, 24178), (196, 24184), (Start: 197 @24187 has 1 MA's), (203, 24202), (214, 24235), (218, 24244), (228, 24256), (244, 24298), (245, 24301), (247, 24307), (253, 24319), (257, 24328), (264, 24346), (270, 24358), (273, 24364), (294, 24430), (298, 24445), (299, 24451), (351, 24586), (368, 24613), (372, 24619), (395, 24712), (434, 24832), (452, 24874), (455, 24886), (500, 25036), (508, 25060), (512, 25078), (529, 25141), (545, 25228), (550, 25243), (556, 25264), (571, 25309), (577, 25327), (586, 25348), (605, 25390), (613, 25414), (633, 25462), (654, 25537), (665, 25588), (682, 25651),

Gene: Kuwabara_28 Start: 21545, Stop: 23329, Start Num: 30
Candidate Starts for Kuwabara_28:
(Start: 30 @21545 has 23 MA's), (36, 21560), (46, 21587), (57, 21617), (88, 21689), (97, 21701), (131, 21764), (136, 21776), (159, 21818), (180, 21857), (190, 21866), (222, 21944), (245, 22001), (247, 22007), (257, 22028), (260, 22037), (270, 22058), (273, 22064), (319, 22166), (321, 22169), (337, 22199), (343, 22211), (359, 22235), (363, 22244), (388, 22310), (392, 22322), (399, 22364), (405, 22397), (413, 22430), (416, 22436), (425, 22460), (434, 22472), (455, 22529), (459, 22547), (500, 22679), (508, 22703), (512, 22721), (545, 22874), (550, 22889), (554, 22904), (556, 22910), (571, 22955), (577, 22973), (581, 22985), (584, 22991), (592, 23003), (599, 23012), (619, 23066), (639, 23135), (649, 23168), (651, 23174), (665, 23237), (666, 23240), (671, 23258), (677, 23279), (679, 23288),

Gene: Kwobi_38 Start: 32695, Stop: 34416, Start Num: 107
Candidate Starts for Kwobi_38:
(Start: 107 @32695 has 30 MA's), (162, 32818), (165, 32830), (192, 32896), (222, 32965), (239, 33001), (312, 33226), (327, 33265), (349, 33325), (371, 33370), (388, 33430), (418, 33565), (421, 33571), (441, 33613), (449, 33628), (458, 33664), (470, 33685), (497, 33784), (522, 33868), (529, 33901), (534, 33946), (535, 33949), (545, 33985), (556, 34021), (558, 34033), (574, 34069), (587, 34105), (612, 34159),

Gene: Lamberg_24 Start: 19408, Stop: 20961, Start Num: 151
Candidate Starts for Lamberg_24:
(Start: 151 @19408 has 3 MA's), (179, 19477), (192, 19492), (207, 19534), (208, 19540), (245, 19624), (247, 19630), (257, 19651), (264, 19669), (271, 19681), (274, 19687), (339, 19843), (372, 19885), (395, 19978), (399, 19999), (413, 20065), (425, 20095), (434, 20107), (455, 20164), (500, 20314), (508, 20338), (545, 20506), (571, 20605), (577, 20623), (581, 20635), (652, 20812), (659, 20839), (667, 20878),

Gene: LastResort_33 Start: 21746, Stop: 23458, Start Num: 49
Candidate Starts for LastResort_33:
(Start: 49 @21746 has 23 MA's), (90, 21839), (158, 21989), (172, 22028), (184, 22058), (249, 22184), (250, 22187), (298, 22325), (317, 22382), (358, 22427), (380, 22433), (394, 22499), (404, 22553), (455, 22685), (460, 22703), (484, 22760), (531, 22937), (569, 23096), (581, 23132), (629, 23249), (641, 23300), (661, 23360), (667, 23396), (681, 23444),

Gene: Lennon_38 Start: 34887, Stop: 36809, Start Num: 29
Candidate Starts for Lennon_38:

(Start: 29 @34887 has 23 MA's), (69, 35022), (77, 35031), (94, 35064), (104, 35088), (136, 35157), (167, 35232), (245, 35424), (247, 35430), (257, 35451), (264, 35469), (270, 35481), (290, 35541), (308, 35595), (359, 35709), (388, 35796), (399, 35850), (409, 35904), (413, 35916), (425, 35946), (434, 35958), (452, 36003), (455, 36015), (459, 36033), (471, 36060), (491, 36138), (500, 36165), (508, 36189), (534, 36312), (544, 36354), (571, 36438), (581, 36468), (619, 36549), (631, 36579), (649, 36651), (652, 36660),

Gene: Leroy_29 Start: 22144, Stop: 23979, Start Num: 30
Candidate Starts for Leroy_29:
(Start: 30 @22144 has 23 MA's), (85, 22306), (Start: 101 @22336 has 1 MA's), (129, 22390), (136, 22405), (Start: 140 @22417 has 1 MA's), (141, 22420), (150, 22435), (Start: 152 @22438 has 2 MA's), (153, 22441), (Start: 199 @22531 has 1 MA's), (202, 22540), (203, 22543), (240, 22630), (245, 22651), (247, 22657), (257, 22678), (260, 22687), (270, 22708), (273, 22714), (319, 22816), (321, 22819), (337, 22849), (343, 22861), (359, 22885), (363, 22894), (388, 22960), (392, 22972), (399, 23014), (405, 23047), (413, 23080), (416, 23086), (425, 23110), (434, 23122), (455, 23179), (459, 23197), (500, 23329), (508, 23353), (512, 23371), (545, 23524), (550, 23539), (554, 23554), (556, 23560), (571, 23605), (577, 23623), (581, 23635), (584, 23641), (592, 23653), (599, 23662), (619, 23716), (639, 23785), (649, 23818), (651, 23824), (665, 23887), (666, 23890), (671, 23908), (677, 23929), (679, 23938),

Gene: Lewan_20 Start: 19228, Stop: 21024, Start Num: 53
Candidate Starts for Lewan_20:
(Start: 51 @19225 has 5 MA's), (Start: 53 @19228 has 27 MA's), (125, 19381), (136, 19405), (Start: 176 @19501 has 1 MA's), (180, 19510), (202, 19555), (212, 19585), (225, 19612), (262, 19705), (275, 19729), (300, 19813), (314, 19858), (329, 19894), (377, 20014), (383, 20032), (386, 20047), (390, 20065), (391, 20068), (404, 20146), (424, 20203), (426, 20206), (429, 20209), (450, 20257), (461, 20293), (465, 20302), (474, 20329), (509, 20440), (511, 20443), (551, 20611), (576, 20686), (578, 20695), (590, 20722), (605, 20755), (611, 20770), (617, 20785), (620, 20791), (641, 20869), (642, 20872), (658, 20920), (680, 21007),

Gene: LilDestine_20 Start: 19227, Stop: 21023, Start Num: 53
Candidate Starts for LilDestine_20:
(Start: 51 @19224 has 5 MA's), (Start: 53 @19227 has 27 MA's), (125, 19380), (136, 19404), (Start: 176 @19500 has 1 MA's), (180, 19509), (201, 19551), (202, 19554), (212, 19584), (225, 19611), (262, 19704), (275, 19728), (300, 19812), (314, 19857), (329, 19893), (377, 20013), (383, 20031), (386, 20046), (390, 20064), (391, 20067), (404, 20145), (424, 20202), (426, 20205), (429, 20208), (461, 20292), (465, 20301), (474, 20328), (509, 20439), (511, 20442), (551, 20610), (576, 20685), (578, 20694), (590, 20721), (605, 20754), (611, 20769), (617, 20784), (620, 20790), (641, 20868), (642, 20871), (658, 20919), (680, 21006),

Gene: LilHam_34 Start: 31298, Stop: 33019, Start Num: 107
Candidate Starts for LilHam_34:
(Start: 107 @31298 has 30 MA's), (162, 31421), (165, 31433), (192, 31499), (222, 31568), (239, 31604), (312, 31829), (327, 31868), (349, 31928), (371, 31973), (388, 32033), (418, 32168), (421, 32174), (441, 32216), (449, 32231), (458, 32267), (470, 32288), (497, 32387), (522, 32471), (529, 32504), (534, 32549), (535, 32552), (545, 32588), (556, 32624), (558, 32636), (574, 32672), (587, 32708), (612, 32762),

Gene: LilJank_30 Start: 25864, Stop: 27450, Start Num: 100
Candidate Starts for LilJank_30:
(Start: 100 @25864 has 6 MA's), (121, 25900), (191, 26044), (201, 26065), (202, 26068), (203, 26071), (209, 26095), (226, 26125), (228, 26128), (244, 26170), (245, 26173), (257, 26200), (260, 26209), (270, 26230), (273, 26236), (289, 26287), (290, 26290), (311, 26311), (338, 26353), (350, 26374),

(351, 26377), (368, 26389), (388, 26455), (399, 26509), (406, 26545), (434, 26608), (445, 26632), (452, 26650), (455, 26662), (459, 26680), (466, 26695), (500, 26812), (502, 26818), (508, 26836), (510, 26842), (512, 26854), (520, 26881), (538, 26980), (545, 27004), (550, 27019), (561, 27058), (571, 27085), (575, 27091), (577, 27103), (581, 27115), (584, 27121), (602, 27157), (621, 27211), (659, 27340), (664, 27367), (675, 27400),

Gene: Lilas_28 Start: 22772, Stop: 24724, Start Num: 19
Candidate Starts for Lilas_28:
(1, 22484), (3, 22541), (4, 22556), (6, 22592), (8, 22637), (10, 22640), (Start: 19 @22772 has 8 MA's), (24, 22787), (28, 22826), (Start: 29 @22829 has 23 MA's), (121, 23057), (134, 23084), (Start: 140 @23099 has 1 MA's), (245, 23333), (247, 23339), (253, 23351), (285, 23429), (290, 23450), (333, 23570), (351, 23612), (388, 23705), (392, 23717), (399, 23759), (425, 23849), (434, 23861), (455, 23918), (466, 23951), (476, 23984), (492, 24044), (500, 24068), (507, 24086), (545, 24260), (546, 24266), (560, 24314), (639, 24536), (663, 24617), (665, 24638),

Gene: LilyPad_26 Start: 21924, Stop: 23648, Start Num: 61
Candidate Starts for LilyPad_26:
(Start: 61 @21924 has 2 MA's), (95, 21999), (98, 22005), (Start: 100 @22014 has 6 MA's), (119, 22056), (173, 22188), (204, 22266), (206, 22272), (220, 22308), (254, 22392), (284, 22467), (289, 22488), (297, 22512), (317, 22566), (348, 22620), (382, 22674), (386, 22683), (387, 22686), (435, 22821), (436, 22824), (466, 22908), (480, 22959), (481, 22962), (486, 22980), (494, 23016), (510, 23055), (529, 23133), (554, 23247), (564, 23292), (584, 23346), (593, 23355), (598, 23361), (647, 23505), (654, 23523),

Gene: LitninMcQueen_28 Start: 21875, Stop: 23710, Start Num: 30
Candidate Starts for LitninMcQueen_28:
(Start: 30 @21875 has 23 MA's), (85, 22037), (Start: 101 @22067 has 1 MA's), (129, 22121), (136, 22136), (Start: 140 @22148 has 1 MA's), (141, 22151), (150, 22166), (Start: 152 @22169 has 2 MA's), (153, 22172), (Start: 199 @22262 has 1 MA's), (202, 22271), (203, 22274), (240, 22361), (245, 22382), (247, 22388), (257, 22409), (260, 22418), (270, 22439), (273, 22445), (319, 22547), (321, 22550), (337, 22580), (343, 22592), (359, 22616), (388, 22691), (392, 22703), (399, 22745), (405, 22778), (413, 22811), (416, 22817), (425, 22841), (434, 22853), (455, 22910), (459, 22928), (500, 23060), (508, 23084), (512, 23102), (545, 23255), (550, 23270), (553, 23282), (554, 23285), (556, 23291), (571, 23336), (577, 23354), (581, 23366), (584, 23372), (592, 23384), (599, 23393), (619, 23447), (628, 23471), (649, 23549), (651, 23555), (665, 23618), (666, 23621), (671, 23639), (677, 23660), (679, 23669),

Gene: LittleFella_27 Start: 23800, Stop: 25635, Start Num: 61
Candidate Starts for LittleFella_27:
(Start: 61 @23800 has 2 MA's), (95, 23875), (98, 23881), (Start: 100 @23890 has 6 MA's), (114, 23923), (119, 23932), (147, 23998), (204, 24130), (206, 24136), (220, 24172), (248, 24238), (254, 24256), (295, 24370), (323, 24445), (324, 24448), (378, 24559), (401, 24661), (421, 24730), (430, 24745), (434, 24751), (444, 24775), (469, 24844), (483, 24895), (494, 24940), (508, 24973), (539, 25153), (559, 25225), (623, 25408), (638, 25468),

Gene: Loadrie_20 Start: 19260, Stop: 21056, Start Num: 53
Candidate Starts for Loadrie_20:
(Start: 51 @19257 has 5 MA's), (Start: 53 @19260 has 27 MA's), (125, 19413), (136, 19437), (Start: 176 @19533 has 1 MA's), (180, 19542), (202, 19587), (212, 19617), (225, 19644), (262, 19737), (275, 19761), (300, 19845), (314, 19890), (383, 20064), (386, 20079), (390, 20097), (391, 20100), (404, 20178), (424, 20235), (429, 20241), (461, 20325), (465, 20334), (509, 20472), (511, 20475), (551, 20643), (576, 20718), (578, 20727), (590, 20754), (605, 20787), (611, 20802), (617, 20817), (620, 20823), (641, 20901), (642, 20904), (680, 21039),

Gene: Looper_34 Start: 21743, Stop: 23455, Start Num: 49
Candidate Starts for Looper_34:
(Start: 49 @21743 has 23 MA's), (90, 21836), (158, 21986), (172, 22025), (184, 22055), (249, 22181), (250, 22184), (298, 22322), (317, 22379), (358, 22424), (380, 22430), (394, 22496), (404, 22550), (450, 22664), (455, 22682), (460, 22700), (484, 22757), (531, 22934), (569, 23093), (581, 23129), (629, 23246), (641, 23297), (661, 23357), (667, 23393), (681, 23441),

Gene: LordFarquaad_25 Start: 20498, Stop: 22021, Start Num: 189
Candidate Starts for LordFarquaad_25:
(Start: 189 @20498 has 19 MA's), (219, 20570), (226, 20582), (240, 20609), (246, 20633), (295, 20753), (298, 20762), (323, 20828), (378, 20942), (389, 20984), (395, 21014), (401, 21044), (420, 21110), (434, 21134), (444, 21158), (452, 21176), (455, 21188), (459, 21206), (466, 21221), (469, 21227), (483, 21278), (490, 21305), (508, 21356), (541, 21524), (547, 21545), (566, 21623), (579, 21662), (588, 21683), (589, 21686), (595, 21698), (610, 21737), (653, 21884), (665, 21944), (666, 21947),

Gene: Love_41 Start: 34670, Stop: 36595, Start Num: 29
Candidate Starts for Love_41:
(Start: 29 @34670 has 23 MA's), (69, 34805), (77, 34814), (94, 34847), (104, 34871), (136, 34940), (167, 35015), (245, 35207), (247, 35213), (257, 35234), (264, 35252), (270, 35264), (290, 35324), (308, 35378), (359, 35495), (388, 35582), (399, 35636), (413, 35702), (425, 35732), (434, 35744), (452, 35789), (455, 35801), (459, 35819), (471, 35846), (491, 35924), (500, 35951), (508, 35975), (534, 36098), (544, 36140), (571, 36224), (581, 36254), (599, 36281), (619, 36335), (631, 36365), (649, 36437), (652, 36446),

Gene: Lozinak_57 Start: 35857, Stop: 37689, Start Num: 52
Candidate Starts for Lozinak_57:
(Start: 52 @35857 has 17 MA's), (103, 35962), (Start: 107 @35971 has 30 MA's), (137, 36025), (178, 36115), (194, 36154), (202, 36172), (249, 36256), (277, 36325), (375, 36595), (410, 36757), (450, 36841), (452, 36847), (488, 36967), (555, 37243), (566, 37300), (569, 37306), (616, 37423), (627, 37450), (648, 37534), (667, 37603),

Gene: Lton_24 Start: 19437, Stop: 21029, Start Num: 145
Candidate Starts for Lton_24:
(Start: 145 @19437 has 7 MA's), (179, 19506), (192, 19521), (196, 19527), (208, 19569), (222, 19596), (247, 19659), (257, 19680), (263, 19695), (285, 19749), (289, 19767), (290, 19770), (294, 19782), (368, 19947), (388, 20013), (395, 20046), (420, 20145), (425, 20157), (434, 20169), (455, 20226), (466, 20259), (469, 20265), (500, 20376), (545, 20571), (571, 20652), (581, 20682), (628, 20793), (635, 20808), (639, 20838), (649, 20871), (665, 20940),

Gene: Lucky10_25 Start: 20304, Stop: 22139, Start Num: 38
Candidate Starts for Lucky10_25:
(7, 20088), (13, 20124), (15, 20169), (17, 20184), (Start: 38 @20304 has 3 MA's), (50, 20361), (88, 20448), (97, 20460), (113, 20493), (116, 20499), (131, 20523), (136, 20535), (161, 20580), (177, 20610), (180, 20616), (190, 20625), (202, 20649), (215, 20691), (245, 20760), (247, 20766), (257, 20787), (264, 20805), (270, 20817), (273, 20823), (290, 20877), (388, 21132), (389, 21135), (399, 21186), (406, 21222), (413, 21252), (416, 21258), (425, 21282), (434, 21294), (455, 21351), (459, 21369), (500, 21501), (502, 21507), (508, 21525), (545, 21693), (571, 21774), (587, 21816), (599, 21831), (628, 21912), (638, 21948), (664, 22047),

Gene: Lutum_29 Start: 22119, Stop: 23954, Start Num: 30
Candidate Starts for Lutum_29:

(Start: 30 @22119 has 23 MA's), (85, 22281), (Start: 101 @22311 has 1 MA's), (129, 22365), (136, 22380), (Start: 140 @22392 has 1 MA's), (141, 22395), (150, 22410), (Start: 152 @22413 has 2 MA's), (153, 22416), (Start: 199 @22506 has 1 MA's), (202, 22515), (203, 22518), (240, 22605), (245, 22626), (247, 22632), (257, 22653), (260, 22662), (270, 22683), (273, 22689), (319, 22791), (321, 22794), (337, 22824), (343, 22836), (359, 22860), (388, 22935), (392, 22947), (399, 22989), (405, 23022), (413, 23055), (416, 23061), (425, 23085), (434, 23097), (455, 23154), (459, 23172), (500, 23304), (508, 23328), (512, 23346), (545, 23499), (550, 23514), (554, 23529), (556, 23535), (571, 23580), (577, 23598), (581, 23610), (584, 23616), (592, 23628), (599, 23637), (619, 23691), (639, 23760), (649, 23793), (651, 23799), (665, 23862), (666, 23865), (671, 23883), (677, 23904), (679, 23913),

Gene: Lynnae_20 Start: 19216, Stop: 21012, Start Num: 53
Candidate Starts for Lynnae_20:
(Start: 51 @19213 has 5 MA's), (Start: 53 @19216 has 27 MA's), (125, 19369), (136, 19393), (Start: 176 @19489 has 1 MA's), (180, 19498), (201, 19540), (202, 19543), (212, 19573), (225, 19600), (262, 19693), (275, 19717), (300, 19801), (314, 19846), (329, 19882), (377, 20002), (383, 20020), (386, 20035), (390, 20053), (391, 20056), (404, 20134), (424, 20191), (426, 20194), (429, 20197), (461, 20281), (465, 20290), (474, 20317), (509, 20428), (511, 20431), (551, 20599), (576, 20674), (578, 20683), (590, 20710), (605, 20743), (611, 20758), (617, 20773), (620, 20779), (641, 20857), (642, 20860), (658, 20908), (680, 20995),

Gene: Madavieve_26 Start: 23206, Stop: 24711, Start Num: 195
Candidate Starts for Madavieve_26:
(Start: 61 @22891 has 2 MA's), (109, 22999), (138, 23068), (Start: 140 @23071 has 1 MA's), (150, 23095), (153, 23101), (Start: 195 @23206 has 29 MA's), (223, 23275), (229, 23287), (271, 23398), (274, 23404), (276, 23410), (278, 23416), (303, 23503), (314, 23539), (317, 23545), (321, 23554), (413, 23848), (442, 23902), (444, 23905), (452, 23926), (467, 23971), (497, 24076), (522, 24160), (534, 24241), (535, 24244), (609, 24463), (628, 24511), (643, 24571), (657, 24604), (660, 24610), (676, 24682),

Gene: Madeline_26 Start: 23224, Stop: 24729, Start Num: 195
Candidate Starts for Madeline_26:
(Start: 61 @22909 has 2 MA's), (109, 23017), (138, 23086), (Start: 140 @23089 has 1 MA's), (150, 23113), (153, 23119), (Start: 195 @23224 has 29 MA's), (223, 23293), (229, 23305), (271, 23416), (274, 23422), (276, 23428), (278, 23434), (303, 23521), (314, 23557), (317, 23563), (321, 23572), (413, 23866), (442, 23920), (444, 23923), (452, 23944), (467, 23989), (497, 24094), (522, 24178), (534, 24259), (535, 24262), (609, 24481), (628, 24529), (643, 24589), (657, 24622), (660, 24628), (676, 24700),

Gene: Madi_25 Start: 21340, Stop: 23304, Start Num: 33
Candidate Starts for Madi_25:
(Start: 33 @21340 has 7 MA's), (Start: 52 @21421 has 17 MA's), (56, 21430), (70, 21469), (73, 21472), (139, 21604), (160, 21646), (164, 21664), (Start: 197 @21742 has 1 MA's), (219, 21805), (267, 21919), (280, 21955), (291, 21994), (308, 22048), (326, 22099), (365, 22198), (388, 22273), (392, 22285), (404, 22360), (452, 22477), (453, 22480), (456, 22492), (549, 22849), (555, 22867), (566, 22924), (569, 22930), (581, 22966), (584, 22972), (648, 23158), (667, 23227), (679, 23269), (686, 23299),

Gene: Malibo_28 Start: 21996, Stop: 23735, Start Num: 82
Candidate Starts for Malibo_28:
(18, 21789), (34, 21858), (35, 21861), (41, 21885), (43, 21891), (Start: 82 @21996 has 1 MA's), (141, 22107), (155, 22134), (244, 22335), (245, 22338), (247, 22344), (253, 22356), (285, 22434), (290, 22455), (351, 22617), (388, 22710), (392, 22722), (399, 22770), (414, 22842), (425, 22860), (434, 22872), (455, 22929), (476, 22995), (500, 23079), (507, 23097), (512, 23121), (545, 23271), (560, 23325), (639, 23547), (663, 23628), (665, 23649),

Gene: Manasvini_28 Start: 22923, Stop: 24428, Start Num: 195
Candidate Starts for Manasvini_28:
(Start: 195 @22923 has 29 MA's), (223, 22992), (229, 23004), (271, 23115), (276, 23127), (278, 23133), (303, 23220), (314, 23256), (317, 23262), (321, 23271), (413, 23565), (442, 23619), (444, 23622), (452, 23643), (467, 23688), (497, 23793), (522, 23877), (534, 23958), (535, 23961), (568, 24084), (609, 24180), (628, 24228), (643, 24288), (657, 24321), (660, 24327), (676, 24399),

Gene: Mareelih_102 Start: 61923, Stop: 63602, Start Num: 79
Candidate Starts for Mareelih_102:
(66, 61905), (Start: 79 @61923 has 5 MA's), (Start: 101 @61965 has 1 MA's), (106, 61974), (141, 62040), (142, 62043), (157, 62064), (207, 62175), (227, 62217), (284, 62355), (290, 62379), (389, 62625), (413, 62742), (430, 62769), (434, 62775), (455, 62829), (469, 62868), (500, 62979), (506, 62994), (508, 63003), (547, 63174), (554, 63195), (584, 63288), (633, 63396), (679, 63573),

Gene: Maridalia_27 Start: 22923, Stop: 24428, Start Num: 195
Candidate Starts for Maridalia_27:
(Start: 195 @22923 has 29 MA's), (223, 22992), (229, 23004), (271, 23115), (276, 23127), (278, 23133), (303, 23220), (314, 23256), (317, 23262), (321, 23271), (413, 23565), (442, 23619), (444, 23622), (452, 23643), (467, 23688), (497, 23793), (522, 23877), (534, 23958), (535, 23961), (568, 24084), (609, 24180), (628, 24228), (643, 24288), (657, 24321), (660, 24327), (676, 24399),

Gene: Marteena_28 Start: 22623, Stop: 24575, Start Num: 19
Candidate Starts for Marteena_28:
(1, 22335), (3, 22392), (4, 22407), (6, 22443), (8, 22488), (10, 22491), (Start: 19 @22623 has 8 MA's), (24, 22638), (28, 22677), (Start: 29 @22680 has 23 MA's), (121, 22908), (134, 22935), (Start: 140 @22950 has 1 MA's), (245, 23184), (247, 23190), (253, 23202), (285, 23280), (290, 23301), (333, 23421), (351, 23463), (388, 23556), (392, 23568), (399, 23610), (425, 23700), (434, 23712), (455, 23769), (466, 23802), (476, 23835), (492, 23895), (500, 23919), (507, 23937), (545, 24111), (546, 24117), (560, 24165), (639, 24387), (663, 24468), (665, 24489),

Gene: Matteo_24 Start: 19369, Stop: 20961, Start Num: 145
Candidate Starts for Matteo_24:
(42, 19135), (45, 19150), (56, 19186), (74, 19231), (76, 19234), (Start: 145 @19369 has 7 MA's), (179, 19438), (192, 19453), (208, 19501), (245, 19585), (247, 19591), (257, 19612), (263, 19627), (285, 19681), (290, 19702), (294, 19714), (368, 19879), (395, 19978), (420, 20077), (425, 20089), (434, 20101), (455, 20158), (466, 20191), (469, 20197), (500, 20308), (545, 20503), (571, 20584), (581, 20614), (628, 20725), (639, 20770), (658, 20836), (665, 20872),

Gene: McCrothy_38 Start: 34478, Stop: 36403, Start Num: 29
Candidate Starts for McCrothy_38:
(Start: 29 @34478 has 23 MA's), (69, 34613), (77, 34622), (94, 34655), (104, 34679), (136, 34748), (167, 34823), (245, 35015), (247, 35021), (257, 35042), (264, 35060), (270, 35072), (290, 35132), (308, 35186), (359, 35303), (388, 35390), (399, 35444), (413, 35510), (425, 35540), (434, 35552), (452, 35597), (455, 35609), (459, 35627), (471, 35654), (491, 35732), (500, 35759), (508, 35783), (534, 35906), (544, 35948), (571, 36032), (581, 36062), (599, 36089), (619, 36143), (631, 36173), (649, 36245), (652, 36254),

Gene: McKinley_40 Start: 34696, Stop: 36618, Start Num: 29
Candidate Starts for McKinley_40:
(Start: 29 @34696 has 23 MA's), (69, 34831), (77, 34840), (94, 34873), (104, 34897), (136, 34966), (148, 34996), (167, 35041), (245, 35233), (247, 35239), (257, 35260), (264, 35278), (270, 35290), (290, 35350), (308, 35404), (359, 35518), (388, 35605), (399, 35659), (413, 35725), (425, 35755),

(434, 35767), (452, 35812), (455, 35824), (459, 35842), (471, 35869), (491, 35947), (500, 35974), (508, 35998), (534, 36121), (544, 36163), (571, 36247), (581, 36277), (599, 36304), (619, 36358), (631, 36388), (649, 36460), (652, 36469),

Gene: Miley16_20 Start: 19228, Stop: 21024, Start Num: 53
Candidate Starts for Miley16_20:
(Start: 51 @19225 has 5 MA's), (Start: 53 @19228 has 27 MA's), (125, 19381), (136, 19405), (Start: 176 @19501 has 1 MA's), (180, 19510), (202, 19555), (212, 19585), (225, 19612), (262, 19705), (275, 19729), (300, 19813), (314, 19858), (377, 20014), (383, 20032), (386, 20047), (390, 20065), (391, 20068), (404, 20146), (424, 20203), (429, 20209), (461, 20293), (465, 20302), (509, 20440), (511, 20443), (551, 20611), (576, 20686), (578, 20695), (590, 20722), (600, 20740), (605, 20755), (611, 20770), (617, 20785), (620, 20791), (641, 20869), (642, 20872), (658, 20920), (680, 21007),

Gene: MinecraftSteve_34 Start: 21865, Stop: 23577, Start Num: 49
Candidate Starts for MinecraftSteve_34:
(Start: 49 @21865 has 23 MA's), (90, 21958), (158, 22108), (172, 22147), (184, 22177), (249, 22303), (250, 22306), (298, 22444), (317, 22501), (358, 22546), (380, 22552), (394, 22618), (404, 22672), (450, 22786), (455, 22804), (460, 22822), (484, 22879), (531, 23056), (569, 23215), (581, 23251), (629, 23368), (641, 23419), (661, 23479), (667, 23515), (681, 23563),

Gene: Miskis_54 Start: 35162, Stop: 36994, Start Num: 52
Candidate Starts for Miskis_54:
(Start: 52 @35162 has 17 MA's), (103, 35267), (Start: 107 @35276 has 30 MA's), (137, 35330), (178, 35420), (194, 35459), (202, 35477), (249, 35561), (277, 35630), (375, 35900), (410, 36062), (450, 36146), (452, 36152), (488, 36272), (555, 36548), (566, 36605), (569, 36611), (616, 36728), (627, 36755), (648, 36839), (667, 36908),

Gene: MkaliMitinis3_20 Start: 19228, Stop: 21024, Start Num: 53
Candidate Starts for MkaliMitinis3_20:
(Start: 51 @19225 has 5 MA's), (Start: 53 @19228 has 27 MA's), (125, 19381), (136, 19405), (Start: 176 @19501 has 1 MA's), (180, 19510), (202, 19555), (212, 19585), (225, 19612), (262, 19705), (275, 19729), (300, 19813), (314, 19858), (377, 20014), (383, 20032), (386, 20047), (390, 20065), (391, 20068), (404, 20146), (424, 20203), (426, 20206), (429, 20209), (461, 20293), (465, 20302), (474, 20329), (509, 20440), (511, 20443), (551, 20611), (576, 20686), (578, 20695), (590, 20722), (605, 20755), (611, 20770), (617, 20785), (620, 20791), (641, 20869), (642, 20872), (658, 20920), (680, 21007),

Gene: Mocha12_25 Start: 20505, Stop: 22028, Start Num: 189
Candidate Starts for Mocha12_25:
(Start: 189 @20505 has 19 MA's), (219, 20577), (226, 20589), (240, 20616), (242, 20622), (246, 20640), (295, 20760), (298, 20769), (323, 20835), (378, 20949), (389, 20991), (395, 21021), (401, 21051), (414, 21111), (420, 21117), (434, 21141), (444, 21165), (452, 21183), (455, 21195), (459, 21213), (466, 21228), (469, 21234), (483, 21285), (490, 21312), (508, 21363), (541, 21531), (579, 21669), (588, 21690), (589, 21693), (595, 21705), (610, 21744), (653, 21891), (665, 21951), (666, 21954),

Gene: Molivier_20 Start: 19234, Stop: 21030, Start Num: 53
Candidate Starts for Molivier_20:
(Start: 51 @19231 has 5 MA's), (Start: 53 @19234 has 27 MA's), (125, 19387), (136, 19411), (Start: 176 @19507 has 1 MA's), (180, 19516), (202, 19561), (212, 19591), (262, 19711), (275, 19735), (300, 19819), (314, 19864), (377, 20020), (383, 20038), (386, 20053), (390, 20071), (391, 20074), (404, 20152), (424, 20209), (426, 20212), (429, 20215), (451, 20266), (461, 20299), (465, 20308), (509, 20446), (511, 20449), (551, 20617), (576, 20692), (578, 20701), (590, 20728), (605, 20761), (611,

20776), (617, 20791), (620, 20797), (641, 20875), (642, 20878), (658, 20926), (680, 21013),

Gene: MoontowerMania_36 Start: 32904, Stop: 34625, Start Num: 107
Candidate Starts for MoontowerMania_36:
(Start: 107 @32904 has 30 MA's), (165, 33039), (169, 33048), (Start: 182 @33081 has 2 MA's), (192, 33105), (222, 33174), (237, 33204), (251, 33249), (312, 33435), (327, 33474), (329, 33483), (336, 33498), (359, 33555), (371, 33579), (392, 33651), (406, 33738), (418, 33774), (421, 33780), (441, 33822), (449, 33837), (496, 33990), (497, 33993), (507, 34020), (522, 34077), (529, 34110), (535, 34158), (554, 34224), (556, 34230), (558, 34242), (570, 34272), (574, 34278), (587, 34314), (592, 34323), (612, 34368), (652, 34497),

Gene: Moosehead_24 Start: 19352, Stop: 20872, Start Num: 189
Candidate Starts for Moosehead_24:
(Start: 189 @19352 has 19 MA's), (219, 19421), (232, 19442), (240, 19460), (242, 19466), (246, 19484), (269, 19526), (295, 19604), (298, 19613), (378, 19793), (389, 19835), (395, 19865), (401, 19895), (420, 19961), (434, 19985), (444, 20009), (452, 20027), (455, 20039), (466, 20072), (469, 20078), (483, 20129), (490, 20156), (508, 20207), (541, 20375), (553, 20414), (554, 20417), (566, 20474), (579, 20513), (588, 20534), (589, 20537), (595, 20549), (610, 20588), (653, 20735), (666, 20798),

Gene: Morkie_25 Start: 20143, Stop: 21978, Start Num: 38
Candidate Starts for Morkie_25:
(Start: 38 @20143 has 3 MA's), (88, 20287), (97, 20299), (113, 20332), (116, 20338), (131, 20362), (136, 20374), (161, 20419), (177, 20449), (180, 20455), (245, 20599), (247, 20605), (264, 20644), (270, 20656), (273, 20662), (290, 20716), (388, 20971), (389, 20974), (399, 21025), (406, 21061), (413, 21091), (416, 21097), (425, 21121), (434, 21133), (455, 21190), (459, 21208), (500, 21340), (502, 21346), (508, 21364), (545, 21532), (571, 21613), (587, 21655), (599, 21670), (628, 21751), (638, 21787), (664, 21886),

Gene: MortyNRick_28 Start: 21851, Stop: 23635, Start Num: 30
Candidate Starts for MortyNRick_28:
(Start: 30 @21851 has 23 MA's), (36, 21866), (46, 21893), (57, 21923), (88, 21995), (97, 22007), (131, 22070), (136, 22082), (159, 22124), (180, 22163), (190, 22172), (222, 22250), (245, 22307), (247, 22313), (257, 22334), (260, 22343), (270, 22364), (273, 22370), (319, 22472), (321, 22475), (337, 22505), (343, 22517), (359, 22541), (363, 22550), (388, 22616), (392, 22628), (399, 22670), (405, 22703), (413, 22736), (416, 22742), (425, 22766), (434, 22778), (455, 22835), (459, 22853), (500, 22985), (508, 23009), (512, 23027), (545, 23180), (550, 23195), (554, 23210), (556, 23216), (571, 23261), (577, 23279), (581, 23291), (584, 23297), (592, 23309), (599, 23318), (619, 23372), (639, 23441), (649, 23474), (651, 23480), (665, 23543), (666, 23546), (671, 23564), (677, 23585), (679, 23594),

Gene: Mutzi_35 Start: 28649, Stop: 30571, Start Num: 25
Candidate Starts for Mutzi_35:
(Start: 25 @28649 has 1 MA's), (Start: 52 @28772 has 17 MA's), (62, 28793), (83, 28841), (115, 28895), (131, 28916), (150, 28958), (191, 29039), (244, 29171), (245, 29174), (285, 29270), (290, 29291), (351, 29453), (388, 29546), (392, 29558), (399, 29606), (425, 29696), (434, 29708), (455, 29765), (459, 29783), (476, 29831), (500, 29915), (507, 29933), (519, 29981), (521, 29987), (545, 30107), (546, 30113), (628, 30338), (639, 30383), (663, 30464), (665, 30485),

Gene: NearlyHeadless_28 Start: 21529, Stop: 23250, Start Num: 78
Candidate Starts for NearlyHeadless_28:
(Start: 78 @21529 has 14 MA's), (148, 21673), (154, 21688), (Start: 197 @21787 has 1 MA's), (244, 21877), (256, 21913), (264, 21934), (289, 22006), (296, 22030), (314, 22084), (360, 22186), (391,

22282), (400, 22336), (409, 22384), (466, 22513), (473, 22531), (511, 22657), (560, 22861), (562, 22870), (591, 22948), (592, 22951), (632, 23047), (659, 23146), (681, 23233),

Gene: Nebulosus_33 Start: 21743, Stop: 23455, Start Num: 49
Candidate Starts for Nebulosus_33:
(Start: 49 @21743 has 23 MA's), (90, 21836), (158, 21986), (172, 22025), (184, 22055), (249, 22181), (250, 22184), (298, 22322), (317, 22379), (358, 22424), (380, 22430), (394, 22496), (404, 22550), (450, 22664), (455, 22682), (460, 22700), (484, 22757), (531, 22934), (569, 23093), (581, 23129), (629, 23246), (641, 23297), (661, 23357), (667, 23393), (681, 23441),

Gene: Nedarya_32 Start: 22359, Stop: 24071, Start Num: 49
Candidate Starts for Nedarya_32:
(Start: 49 @22359 has 23 MA's), (Start: 55 @22374 has 2 MA's), (138, 22557), (184, 22671), (194, 22695), (210, 22725), (217, 22740), (249, 22797), (250, 22800), (298, 22938), (302, 22950), (317, 22995), (358, 23040), (394, 23112), (404, 23166), (409, 23190), (450, 23280), (455, 23298), (460, 23316), (498, 23418), (505, 23424), (531, 23550), (569, 23709), (581, 23745), (584, 23751), (586, 23754), (606, 23799), (641, 23913), (658, 23967), (661, 23973), (667, 24009), (680, 24054), (681, 24057), (682, 24066),

Gene: Neobush_28 Start: 22923, Stop: 24428, Start Num: 195
Candidate Starts for Neobush_28:
(Start: 195 @22923 has 29 MA's), (223, 22992), (229, 23004), (271, 23115), (276, 23127), (278, 23133), (303, 23220), (314, 23256), (317, 23262), (321, 23271), (413, 23565), (442, 23619), (444, 23622), (452, 23643), (467, 23688), (497, 23793), (522, 23877), (534, 23958), (535, 23961), (568, 24084), (609, 24180), (628, 24228), (643, 24288), (657, 24321), (660, 24327), (676, 24399),

Gene: Nettuno_24 Start: 19408, Stop: 20961, Start Num: 151
Candidate Starts for Nettuno_24:
(Start: 151 @19408 has 3 MA's), (179, 19477), (192, 19492), (207, 19534), (208, 19540), (245, 19624), (247, 19630), (257, 19651), (264, 19669), (271, 19681), (274, 19687), (339, 19843), (372, 19885), (395, 19978), (399, 19999), (413, 20065), (425, 20095), (434, 20107), (455, 20164), (500, 20314), (508, 20338), (545, 20506), (571, 20605), (577, 20623), (581, 20635), (652, 20812), (659, 20839), (667, 20878),

Gene: Netyap_20 Start: 19228, Stop: 21024, Start Num: 53
Candidate Starts for Netyap_20:
(Start: 51 @19225 has 5 MA's), (Start: 53 @19228 has 27 MA's), (125, 19381), (136, 19405), (Start: 176 @19501 has 1 MA's), (180, 19510), (202, 19555), (212, 19585), (225, 19612), (262, 19705), (275, 19729), (300, 19813), (314, 19858), (377, 20014), (383, 20032), (386, 20047), (390, 20065), (391, 20068), (404, 20146), (424, 20203), (429, 20209), (461, 20293), (465, 20302), (509, 20440), (511, 20443), (551, 20611), (576, 20686), (578, 20695), (590, 20722), (600, 20740), (605, 20755), (611, 20770), (617, 20785), (620, 20791), (641, 20869), (642, 20872), (658, 20920), (680, 21007),

Gene: Neville_30 Start: 25504, Stop: 27090, Start Num: 100
Candidate Starts for Neville_30:
(Start: 100 @25504 has 6 MA's), (121, 25540), (191, 25684), (201, 25705), (202, 25708), (203, 25711), (209, 25735), (226, 25765), (228, 25768), (244, 25810), (245, 25813), (257, 25840), (260, 25849), (270, 25870), (273, 25876), (289, 25927), (290, 25930), (311, 25951), (338, 25993), (350, 26014), (351, 26017), (368, 26029), (388, 26095), (399, 26149), (406, 26185), (434, 26248), (445, 26272), (452, 26290), (455, 26302), (459, 26320), (466, 26335), (500, 26452), (502, 26458), (508, 26476), (510, 26482), (512, 26494), (520, 26521), (538, 26620), (545, 26644), (550, 26659), (561, 26698), (571, 26725), (575, 26731), (577, 26743), (581, 26755), (584, 26761), (602, 26797), (621, 26851), (659, 26980), (664, 27007), (675, 27040),

Gene: Nicholasp3_20 Start: 19233, Stop: 21029, Start Num: 53
Candidate Starts for Nicholasp3_20:
(Start: 51 @19230 has 5 MA's), (Start: 53 @19233 has 27 MA's), (125, 19386), (136, 19410), (Start: 176 @19506 has 1 MA's), (180, 19515), (201, 19557), (202, 19560), (212, 19590), (225, 19617), (262, 19710), (275, 19734), (300, 19818), (314, 19863), (329, 19899), (377, 20019), (383, 20037), (386, 20052), (390, 20070), (391, 20073), (404, 20151), (424, 20208), (426, 20211), (429, 20214), (461, 20298), (465, 20307), (474, 20334), (509, 20445), (511, 20448), (551, 20616), (576, 20691), (578, 20700), (590, 20727), (605, 20760), (611, 20775), (617, 20790), (620, 20796), (641, 20874), (642, 20877), (658, 20925), (680, 21012),

Gene: Nordenberg_32 Start: 32866, Stop: 34788, Start Num: 29
Candidate Starts for Nordenberg_32:
(Start: 29 @32866 has 23 MA's), (69, 33001), (77, 33010), (94, 33043), (104, 33067), (136, 33136), (167, 33211), (245, 33403), (247, 33409), (257, 33430), (264, 33448), (270, 33460), (290, 33520), (308, 33574), (359, 33688), (388, 33775), (399, 33829), (413, 33895), (425, 33925), (434, 33937), (452, 33982), (455, 33994), (459, 34012), (471, 34039), (491, 34117), (500, 34144), (508, 34168), (534, 34291), (544, 34333), (571, 34417), (581, 34447), (599, 34474), (619, 34528), (631, 34558), (649, 34630), (652, 34639),

Gene: Norvs_57 Start: 35401, Stop: 37233, Start Num: 52
Candidate Starts for Norvs_57:
(Start: 52 @35401 has 17 MA's), (103, 35506), (Start: 107 @35515 has 30 MA's), (137, 35569), (178, 35659), (194, 35698), (202, 35716), (249, 35800), (277, 35869), (375, 36139), (410, 36301), (450, 36385), (452, 36391), (488, 36511), (555, 36787), (566, 36844), (569, 36850), (616, 36967), (627, 36994), (648, 37078), (667, 37147),

Gene: Nubi_33 Start: 28222, Stop: 30144, Start Num: 27
Candidate Starts for Nubi_33:
(Start: 27 @28222 has 17 MA's), (63, 28345), (69, 28366), (98, 28414), (Start: 146 @28522 has 1 MA's), (157, 28543), (Start: 199 @28624 has 1 MA's), (208, 28660), (210, 28663), (244, 28741), (245, 28744), (247, 28750), (257, 28771), (270, 28801), (273, 28807), (317, 28942), (351, 29029), (359, 29038), (362, 29044), (364, 29050), (388, 29125), (395, 29158), (399, 29179), (416, 29251), (425, 29275), (434, 29287), (455, 29344), (500, 29494), (508, 29518), (545, 29686), (550, 29701), (581, 29797), (628, 29908), (638, 29944),

Gene: Nymphadora_26 Start: 22926, Stop: 24431, Start Num: 195
Candidate Starts for Nymphadora_26:
(Start: 61 @22611 has 2 MA's), (109, 22719), (138, 22788), (Start: 140 @22791 has 1 MA's), (150, 22815), (153, 22821), (Start: 195 @22926 has 29 MA's), (223, 22995), (229, 23007), (271, 23118), (274, 23124), (276, 23130), (278, 23136), (303, 23223), (314, 23259), (317, 23265), (321, 23274), (413, 23568), (442, 23622), (444, 23625), (452, 23646), (467, 23691), (497, 23796), (522, 23880), (534, 23961), (535, 23964), (609, 24183), (628, 24231), (643, 24291), (657, 24324), (660, 24330), (676, 24402),

Gene: ODay_33 Start: 23997, Stop: 25781, Start Num: 30
Candidate Starts for ODay_33:
(Start: 30 @23997 has 23 MA's), (57, 24069), (88, 24141), (97, 24153), (122, 24198), (136, 24228), (159, 24270), (161, 24273), (180, 24309), (190, 24318), (Start: 199 @24333 has 1 MA's), (202, 24342), (222, 24396), (240, 24432), (245, 24453), (247, 24459), (257, 24480), (260, 24489), (270, 24510), (273, 24516), (319, 24618), (321, 24621), (337, 24651), (343, 24663), (359, 24687), (388, 24762), (392, 24774), (399, 24816), (405, 24849), (413, 24882), (416, 24888), (425, 24912), (434, 24924), (455, 24981), (459, 24999), (500, 25131), (508, 25155), (512, 25173), (545, 25326), (550, 25341),

(554, 25356), (556, 25362), (571, 25407), (577, 25425), (581, 25437), (584, 25443), (592, 25455), (599, 25464), (619, 25518), (628, 25542), (639, 25587), (649, 25620), (651, 25626), (665, 25689), (666, 25692), (671, 25710), (677, 25731), (679, 25740),

Gene: Ohgeesy_26 Start: 22549, Stop: 24054, Start Num: 195
Candidate Starts for Ohgeesy_26:
(Start: 61 @22234 has 2 MA's), (109, 22342), (138, 22411), (Start: 140 @22414 has 1 MA's), (150, 22438), (153, 22444), (Start: 195 @22549 has 29 MA's), (223, 22618), (229, 22630), (271, 22741), (274, 22747), (276, 22753), (278, 22759), (303, 22846), (314, 22882), (317, 22888), (321, 22897), (413, 23191), (442, 23245), (444, 23248), (452, 23269), (467, 23314), (497, 23419), (522, 23503), (534, 23584), (535, 23587), (609, 23806), (628, 23854), (643, 23914), (657, 23947), (660, 23953), (676, 24025),

Gene: OneDirection_23 Start: 19380, Stop: 20984, Start Num: 145
Candidate Starts for OneDirection_23:
(Start: 145 @19380 has 7 MA's), (179, 19449), (192, 19464), (208, 19512), (247, 19602), (257, 19623), (264, 19641), (285, 19692), (290, 19713), (294, 19725), (368, 19911), (388, 19977), (389, 19980), (395, 20010), (420, 20109), (425, 20121), (434, 20133), (455, 20190), (469, 20229), (500, 20340), (514, 20391), (517, 20397), (545, 20532), (556, 20568), (571, 20613), (581, 20643), (584, 20649), (619, 20724), (628, 20748), (639, 20793), (649, 20826), (652, 20835), (666, 20898),

Gene: OneUp_50 Start: 32790, Stop: 34595, Start Num: 52
Candidate Starts for OneUp_50:
(Start: 52 @32790 has 17 MA's), (138, 32961), (178, 33048), (202, 33105), (207, 33108), (249, 33189), (313, 33378), (314, 33381), (375, 33531), (385, 33567), (388, 33579), (404, 33666), (408, 33678), (419, 33708), (428, 33723), (446, 33759), (450, 33771), (453, 33780), (460, 33807), (462, 33810), (464, 33813), (484, 33876), (487, 33894), (555, 34167), (558, 34182), (572, 34236), (616, 34341), (619, 34350), (624, 34359),

Gene: Oofda_33 Start: 21717, Stop: 23429, Start Num: 49
Candidate Starts for Oofda_33:
(Start: 49 @21717 has 23 MA's), (90, 21810), (158, 21960), (172, 21999), (184, 22029), (249, 22155), (250, 22158), (298, 22296), (317, 22353), (358, 22398), (380, 22404), (394, 22470), (404, 22524), (450, 22638), (455, 22656), (460, 22674), (484, 22731), (531, 22908), (569, 23067), (581, 23103), (629, 23220), (641, 23271), (661, 23331), (667, 23367), (681, 23415),

Gene: Orchid_27 Start: 31352, Stop: 33037, Start Num: 117
Candidate Starts for Orchid_27:
(Start: 117 @31352 has 5 MA's), (Start: 145 @31415 has 7 MA's), (163, 31460), (Start: 176 @31496 has 1 MA's), (187, 31526), (283, 31775), (310, 31868), (346, 31937), (376, 31994), (378, 32000), (384, 32021), (388, 32039), (401, 32102), (485, 32330), (508, 32411), (524, 32477), (543, 32588), (573, 32681), (579, 32702), (652, 32900), (662, 32933),

Gene: OverPar_20 Start: 19260, Stop: 21056, Start Num: 53
Candidate Starts for OverPar_20:
(Start: 51 @19257 has 5 MA's), (Start: 53 @19260 has 27 MA's), (125, 19413), (136, 19437), (Start: 176 @19533 has 1 MA's), (180, 19542), (202, 19587), (212, 19617), (225, 19644), (262, 19737), (275, 19761), (300, 19845), (314, 19890), (383, 20064), (386, 20079), (390, 20097), (391, 20100), (404, 20178), (424, 20235), (429, 20241), (461, 20325), (465, 20334), (509, 20472), (511, 20475), (551, 20643), (576, 20718), (578, 20727), (590, 20754), (605, 20787), (611, 20802), (617, 20817), (620, 20823), (641, 20901), (642, 20904), (680, 21039),

Gene: PP_40 Start: 28396, Stop: 30327, Start Num: 21

Candidate Starts for PP_40:
(Start: 21 @28396 has 2 MA's), (31, 28447), (47, 28516), (58, 28543), (73, 28585), (Start: 89 @28618 has 2 MA's), (112, 28666), (153, 28756), (156, 28765), (166, 28792), (178, 28813), (209, 28864), (218, 28885), (233, 28906), (235, 28909), (264, 28972), (287, 29038), (314, 29122), (380, 29281), (386, 29305), (392, 29326), (396, 29359), (404, 29398), (407, 29407), (472, 29569), (475, 29581), (477, 29593), (509, 29689), (560, 29893), (579, 29956), (585, 29971), (607, 30022), (617, 30043), (637, 30091), (659, 30178), (671, 30232), (673, 30238), (677, 30265),

Gene: PantheRoc_27 Start: 22121, Stop: 23626, Start Num: 195
Candidate Starts for PantheRoc_27:
(109, 21914), (138, 21983), (Start: 140 @21986 has 1 MA's), (150, 22010), (153, 22016), (Start: 195 @22121 has 29 MA's), (223, 22190), (229, 22202), (271, 22313), (276, 22325), (278, 22331), (303, 22418), (314, 22454), (317, 22460), (321, 22469), (413, 22763), (442, 22817), (444, 22820), (452, 22841), (467, 22886), (497, 22991), (522, 23075), (534, 23156), (535, 23159), (609, 23378), (628, 23426), (643, 23486), (657, 23519), (660, 23525), (676, 23597),

Gene: Paries_40 Start: 34332, Stop: 36257, Start Num: 29
Candidate Starts for Paries_40:
(Start: 29 @34332 has 23 MA's), (69, 34467), (77, 34476), (94, 34509), (104, 34533), (136, 34602), (167, 34677), (245, 34869), (247, 34875), (257, 34896), (264, 34914), (270, 34926), (290, 34986), (308, 35040), (359, 35157), (388, 35244), (399, 35298), (409, 35352), (413, 35364), (425, 35394), (434, 35406), (452, 35451), (455, 35463), (459, 35481), (471, 35508), (491, 35586), (500, 35613), (508, 35637), (534, 35760), (544, 35802), (571, 35886), (581, 35916), (599, 35943), (619, 35997), (631, 36027), (649, 36099), (652, 36108),

Gene: PatrickStar_27 Start: 31352, Stop: 33037, Start Num: 117
Candidate Starts for PatrickStar_27:
(Start: 117 @31352 has 5 MA's), (Start: 145 @31415 has 7 MA's), (163, 31460), (Start: 176 @31496 has 1 MA's), (187, 31526), (283, 31775), (310, 31868), (346, 31937), (376, 31994), (378, 32000), (384, 32021), (388, 32039), (401, 32102), (485, 32330), (508, 32411), (524, 32477), (543, 32588), (573, 32681), (579, 32702), (652, 32900), (662, 32933),

Gene: Pepperoni_25 Start: 20244, Stop: 21851, Start Num: 145
Candidate Starts for Pepperoni_25:
(42, 20010), (45, 20025), (56, 20061), (74, 20106), (76, 20109), (Start: 145 @20244 has 7 MA's), (191, 20331), (245, 20463), (247, 20469), (257, 20490), (264, 20508), (285, 20559), (290, 20580), (294, 20592), (368, 20778), (388, 20844), (389, 20847), (395, 20877), (420, 20976), (425, 20988), (434, 21000), (455, 21057), (469, 21096), (500, 21207), (514, 21258), (517, 21264), (545, 21399), (556, 21435), (571, 21480), (581, 21510), (584, 21516), (619, 21591), (628, 21615), (632, 21624), (639, 21660), (649, 21693), (652, 21702), (666, 21765),

Gene: Periwinkle_31 Start: 22588, Stop: 24423, Start Num: 30
Candidate Starts for Periwinkle_31:
(Start: 30 @22588 has 23 MA's), (85, 22750), (Start: 101 @22780 has 1 MA's), (129, 22834), (136, 22849), (Start: 140 @22861 has 1 MA's), (141, 22864), (150, 22879), (Start: 152 @22882 has 2 MA's), (153, 22885), (Start: 199 @22975 has 1 MA's), (202, 22984), (203, 22987), (240, 23074), (245, 23095), (247, 23101), (257, 23122), (260, 23131), (270, 23152), (273, 23158), (319, 23260), (321, 23263), (337, 23293), (343, 23305), (359, 23329), (363, 23338), (388, 23404), (392, 23416), (399, 23458), (405, 23491), (413, 23524), (416, 23530), (425, 23554), (434, 23566), (455, 23623), (459, 23641), (500, 23773), (508, 23797), (512, 23815), (545, 23968), (550, 23983), (554, 23998), (556, 24004), (571, 24049), (577, 24067), (581, 24079), (584, 24085), (592, 24097), (599, 24106), (619, 24160), (639, 24229), (649, 24262), (651, 24268), (665, 24331), (666, 24334), (671, 24352), (677, 24373), (679, 24382),

Gene: Phabuloso_28 Start: 21875, Stop: 23710, Start Num: 30
Candidate Starts for Phabuloso_28:
(Start: 30 @21875 has 23 MA's), (85, 22037), (Start: 101 @22067 has 1 MA's), (129, 22121), (136, 22136), (Start: 140 @22148 has 1 MA's), (141, 22151), (150, 22166), (Start: 152 @22169 has 2 MA's), (153, 22172), (Start: 199 @22262 has 1 MA's), (202, 22271), (203, 22274), (240, 22361), (245, 22382), (247, 22388), (257, 22409), (260, 22418), (270, 22439), (273, 22445), (319, 22547), (321, 22550), (337, 22580), (343, 22592), (359, 22616), (388, 22691), (392, 22703), (399, 22745), (405, 22778), (413, 22811), (416, 22817), (425, 22841), (434, 22853), (455, 22910), (459, 22928), (500, 23060), (508, 23084), (512, 23102), (545, 23255), (550, 23270), (554, 23285), (556, 23291), (571, 23336), (577, 23354), (581, 23366), (584, 23372), (592, 23384), (599, 23393), (619, 23447), (639, 23516), (649, 23549), (651, 23555), (665, 23618), (666, 23621), (671, 23639), (677, 23660), (679, 23669),

Gene: PhaoMing_24 Start: 21371, Stop: 23308, Start Num: 19
Candidate Starts for PhaoMing_24:
(16, 21320), (Start: 19 @21371 has 8 MA's), (64, 21551), (69, 21563), (77, 21572), (96, 21605), (114, 21647), (121, 21659), (131, 21677), (134, 21686), (136, 21689), (138, 21698), (153, 21725), (160, 21737), (191, 21800), (205, 21833), (210, 21854), (222, 21878), (228, 21890), (240, 21914), (245, 21935), (247, 21941), (257, 21962), (260, 21971), (264, 21980), (274, 21998), (285, 22031), (290, 22052), (294, 22064), (358, 22211), (368, 22235), (388, 22301), (389, 22304), (395, 22334), (420, 22433), (425, 22445), (434, 22457), (449, 22493), (455, 22514), (466, 22547), (469, 22553), (500, 22664), (514, 22715), (517, 22721), (527, 22760), (534, 22811), (545, 22856), (556, 22892), (565, 22925), (571, 22937), (581, 22967), (584, 22973), (599, 22994), (619, 23048), (628, 23072), (636, 23090), (666, 23222),

Gene: Phendrix_89 Start: 54539, Stop: 56233, Start Num: 79
Candidate Starts for Phendrix_89:
(Start: 79 @54539 has 5 MA's), (86, 54557), (Start: 89 @54563 has 2 MA's), (138, 54653), (141, 54659), (142, 54662), (157, 54683), (227, 54836), (230, 54839), (244, 54878), (284, 54974), (285, 54977), (294, 55010), (331, 55115), (364, 55166), (388, 55241), (399, 55295), (406, 55331), (421, 55373), (430, 55388), (500, 55598), (508, 55622), (534, 55754), (554, 55826), (558, 55844), (583, 55916), (601, 55949), (604, 55955), (608, 55973),

Gene: Phillis_28 Start: 21576, Stop: 23297, Start Num: 78
Candidate Starts for Phillis_28:
(Start: 78 @21576 has 14 MA's), (144, 21711), (148, 21720), (154, 21735), (Start: 197 @21834 has 1 MA's), (244, 21924), (256, 21960), (264, 21981), (289, 22053), (296, 22077), (314, 22131), (322, 22149), (329, 22167), (360, 22233), (391, 22329), (400, 22383), (457, 22542), (473, 22578), (511, 22704), (560, 22908), (562, 22917), (592, 22998), (632, 23094), (659, 23193),

Gene: PhinkBoden_56 Start: 35782, Stop: 37614, Start Num: 52
Candidate Starts for PhinkBoden_56:
(Start: 52 @35782 has 17 MA's), (103, 35887), (Start: 107 @35896 has 30 MA's), (137, 35950), (178, 36040), (194, 36079), (202, 36097), (249, 36181), (277, 36250), (375, 36520), (410, 36682), (450, 36766), (452, 36772), (488, 36892), (555, 37168), (566, 37225), (569, 37231), (616, 37348), (627, 37375), (648, 37459), (667, 37528),

Gene: Phistory_30 Start: 22909, Stop: 24744, Start Num: 30
Candidate Starts for Phistory_30:
(Start: 30 @22909 has 23 MA's), (85, 23071), (Start: 101 @23101 has 1 MA's), (129, 23155), (136, 23170), (Start: 140 @23182 has 1 MA's), (141, 23185), (150, 23200), (Start: 152 @23203 has 2 MA's), (153, 23206), (Start: 199 @23296 has 1 MA's), (202, 23305), (203, 23308), (240, 23395), (245, 23416), (247, 23422), (257, 23443), (260, 23452), (270, 23473), (273, 23479), (319, 23581), (321, 23584),

(337, 23614), (343, 23626), (359, 23650), (363, 23659), (388, 23725), (392, 23737), (399, 23779), (405, 23812), (413, 23845), (416, 23851), (425, 23875), (434, 23887), (455, 23944), (459, 23962), (500, 24094), (508, 24118), (512, 24136), (545, 24289), (550, 24304), (554, 24319), (556, 24325), (571, 24370), (577, 24388), (581, 24400), (584, 24406), (592, 24418), (599, 24427), (619, 24481), (639, 24550), (649, 24583), (651, 24589), (665, 24652), (666, 24655), (671, 24673), (677, 24694), (679, 24703),

Gene: Phlei_26 Start: 24300, Stop: 26288, Start Num: 44
Candidate Starts for Phlei_26:
(44, 24300), (87, 24411), (154, 24561), (168, 24597), (Start: 176 @24621 has 1 MA's), (191, 24660), (Start: 199 @24675 has 1 MA's), (201, 24681), (203, 24687), (282, 24894), (285, 24903), (290, 24924), (301, 24960), (328, 25038), (329, 25041), (354, 25101), (384, 25182), (388, 25200), (396, 25248), (423, 25347), (449, 25401), (475, 25479), (485, 25512), (504, 25581), (511, 25602), (532, 25713), (558, 25824), (588, 25923), (614, 25986), (634, 26043), (667, 26163), (678, 26214), (682, 26232), (684, 26238),

Gene: Phlop_33 Start: 28304, Stop: 30226, Start Num: 27
Candidate Starts for Phlop_33:
(Start: 27 @28304 has 17 MA's), (63, 28427), (69, 28448), (98, 28496), (Start: 146 @28604 has 1 MA's), (157, 28625), (Start: 199 @28706 has 1 MA's), (208, 28742), (210, 28745), (244, 28823), (245, 28826), (247, 28832), (257, 28853), (270, 28883), (273, 28889), (317, 29024), (351, 29111), (359, 29120), (362, 29126), (364, 29132), (388, 29207), (395, 29240), (399, 29261), (416, 29333), (425, 29357), (434, 29369), (455, 29426), (500, 29576), (508, 29600), (545, 29768), (550, 29783), (581, 29879), (628, 29990), (638, 30026),

Gene: PhorbesPhlower_25 Start: 20143, Stop: 21978, Start Num: 38
Candidate Starts for PhorbesPhlower_25:
(Start: 38 @20143 has 3 MA's), (88, 20287), (97, 20299), (113, 20332), (116, 20338), (131, 20362), (136, 20374), (161, 20419), (177, 20449), (180, 20455), (245, 20599), (247, 20605), (264, 20644), (270, 20656), (273, 20662), (290, 20716), (388, 20971), (389, 20974), (399, 21025), (406, 21061), (413, 21091), (416, 21097), (425, 21121), (434, 21133), (455, 21190), (459, 21208), (500, 21340), (502, 21346), (508, 21364), (545, 21532), (571, 21613), (587, 21655), (599, 21670), (628, 21751), (638, 21787), (664, 21886),

Gene: Pickett_24 Start: 19332, Stop: 20870, Start Num: 146
Candidate Starts for Pickett_24:
(Start: 146 @19332 has 1 MA's), (179, 19401), (192, 19416), (196, 19422), (208, 19464), (247, 19554), (257, 19575), (270, 19605), (319, 19713), (321, 19716), (337, 19746), (343, 19758), (372, 19797), (392, 19869), (395, 19890), (399, 19911), (425, 20007), (434, 20019), (455, 20076), (459, 20094), (463, 20100), (474, 20133), (500, 20226), (508, 20250), (544, 20415), (545, 20418), (639, 20679), (677, 20823),

Gene: Pollux_28 Start: 22623, Stop: 24575, Start Num: 19
Candidate Starts for Pollux_28:
(1, 22335), (3, 22392), (4, 22407), (6, 22443), (8, 22488), (10, 22491), (Start: 19 @22623 has 8 MA's), (24, 22638), (28, 22677), (Start: 29 @22680 has 23 MA's), (121, 22908), (134, 22935), (Start: 140 @22950 has 1 MA's), (245, 23184), (247, 23190), (253, 23202), (285, 23280), (290, 23301), (333, 23421), (351, 23463), (388, 23556), (392, 23568), (399, 23610), (425, 23700), (434, 23712), (455, 23769), (466, 23802), (476, 23835), (492, 23895), (500, 23919), (507, 23937), (545, 24111), (546, 24117), (560, 24165), (639, 24387), (663, 24468), (665, 24489),

Gene: Polly_25 Start: 22366, Stop: 23871, Start Num: 195
Candidate Starts for Polly_25:

(Start: 195 @22366 has 29 MA's), (223, 22435), (229, 22447), (271, 22558), (276, 22570), (278, 22576), (303, 22663), (314, 22699), (317, 22705), (321, 22714), (413, 23008), (442, 23062), (444, 23065), (452, 23086), (467, 23131), (497, 23236), (522, 23320), (534, 23401), (535, 23404), (568, 23527), (609, 23623), (628, 23671), (643, 23731), (657, 23764), (660, 23770), (676, 23842),

Gene: Powerball_24 Start: 20546, Stop: 22255, Start Num: 99
Candidate Starts for Powerball_24:
(Start: 99 @20546 has 4 MA's), (124, 20594), (127, 20603), (191, 20729), (196, 20738), (Start: 199 @20744 has 1 MA's), (203, 20756), (205, 20762), (208, 20780), (210, 20783), (244, 20861), (245, 20864), (247, 20870), (257, 20891), (264, 20909), (270, 20921), (292, 20987), (296, 21002), (315, 21059), (337, 21113), (340, 21119), (362, 21170), (364, 21176), (368, 21185), (381, 21221), (388, 21251), (389, 21254), (399, 21305), (406, 21341), (409, 21359), (425, 21392), (427, 21395), (452, 21449), (455, 21461), (459, 21479), (500, 21611), (508, 21635), (529, 21716), (544, 21800), (545, 21803), (550, 21818), (553, 21830), (554, 21833), (558, 21851), (581, 21914), (584, 21920), (628, 22022), (662, 22136), (665, 22163),

Gene: PullumCavea_33 Start: 28304, Stop: 30226, Start Num: 27
Candidate Starts for PullumCavea_33:
(Start: 27 @28304 has 17 MA's), (63, 28427), (69, 28448), (98, 28496), (Start: 146 @28604 has 1 MA's), (157, 28625), (Start: 199 @28706 has 1 MA's), (208, 28742), (210, 28745), (244, 28823), (245, 28826), (247, 28832), (257, 28853), (270, 28883), (273, 28889), (317, 29024), (351, 29111), (359, 29120), (362, 29126), (364, 29132), (388, 29207), (395, 29240), (399, 29261), (416, 29333), (425, 29357), (434, 29369), (455, 29426), (500, 29576), (508, 29600), (545, 29768), (550, 29783), (581, 29879), (628, 29990), (638, 30026),

Gene: Rabbitrun_32 Start: 25825, Stop: 27402, Start Num: 105
Candidate Starts for Rabbitrun_32:
(Start: 100 @25816 has 6 MA's), (Start: 105 @25825 has 1 MA's), (Start: 117 @25846 has 5 MA's), (131, 25873), (201, 26017), (202, 26020), (209, 26044), (244, 26119), (245, 26122), (257, 26149), (270, 26179), (273, 26185), (285, 26218), (289, 26236), (311, 26266), (341, 26314), (342, 26317), (350, 26332), (358, 26338), (381, 26383), (389, 26416), (401, 26476), (406, 26503), (432, 26563), (434, 26566), (452, 26608), (455, 26620), (461, 26641), (463, 26644), (466, 26653), (474, 26677), (500, 26770), (502, 26776), (510, 26800), (512, 26812), (516, 26824), (534, 26917), (538, 26938), (545, 26962), (550, 26977), (556, 26998), (561, 27016), (571, 27043), (575, 27049), (577, 27061), (584, 27079), (605, 27124), (618, 27163), (633, 27196), (643, 27244), (654, 27277), (659, 27295), (666, 27331), (677, 27367), (683, 27391),

Gene: Ravana_33 Start: 21707, Stop: 23419, Start Num: 49
Candidate Starts for Ravana_33:
(Start: 49 @21707 has 23 MA's), (90, 21800), (144, 21917), (158, 21950), (172, 21989), (184, 22019), (249, 22145), (250, 22148), (298, 22286), (317, 22343), (358, 22388), (380, 22394), (394, 22460), (404, 22514), (450, 22628), (455, 22646), (460, 22664), (484, 22721), (531, 22898), (569, 23057), (581, 23093), (629, 23210), (641, 23261), (661, 23321), (667, 23357), (681, 23405),

Gene: ReMo_33 Start: 21743, Stop: 23455, Start Num: 49
Candidate Starts for ReMo_33:
(Start: 49 @21743 has 23 MA's), (90, 21836), (158, 21986), (172, 22025), (184, 22055), (249, 22181), (250, 22184), (298, 22322), (317, 22379), (358, 22424), (380, 22430), (394, 22496), (404, 22550), (455, 22682), (460, 22700), (484, 22757), (531, 22934), (569, 23093), (581, 23129), (629, 23246), (641, 23297), (661, 23357), (667, 23393), (681, 23441),

Gene: Remus_33 Start: 21707, Stop: 23419, Start Num: 49
Candidate Starts for Remus_33:

(Start: 49 @21707 has 23 MA's), (90, 21800), (158, 21950), (172, 21989), (184, 22019), (249, 22145), (250, 22148), (298, 22286), (317, 22343), (358, 22388), (380, 22394), (394, 22460), (404, 22514), (450, 22628), (455, 22646), (460, 22664), (484, 22721), (531, 22898), (569, 23057), (581, 23093), (629, 23210), (641, 23261), (661, 23321), (667, 23357), (681, 23405),

Gene: Reyja_26 Start: 19864, Stop: 21561, Start Num: 89
Candidate Starts for Reyja_26:
(Start: 89 @19864 has 2 MA's), (141, 19963), (191, 20059), (Start: 199 @20074 has 1 MA's), (245, 20194), (247, 20200), (257, 20221), (274, 20257), (285, 20290), (290, 20311), (306, 20359), (335, 20428), (358, 20464), (359, 20467), (388, 20548), (399, 20602), (420, 20683), (425, 20695), (434, 20707), (449, 20743), (455, 20764), (459, 20782), (466, 20797), (500, 20914), (508, 20938), (545, 21109), (577, 21226), (581, 21238), (584, 21244), (599, 21265), (651, 21412), (659, 21442), (667, 21481),

Gene: Ribeye_37 Start: 33113, Stop: 34834, Start Num: 107
Candidate Starts for Ribeye_37:
(Start: 107 @33113 has 30 MA's), (162, 33236), (165, 33248), (192, 33314), (222, 33383), (239, 33419), (312, 33644), (327, 33683), (349, 33743), (371, 33788), (388, 33848), (418, 33983), (421, 33989), (441, 34031), (449, 34046), (458, 34082), (470, 34103), (497, 34202), (522, 34286), (529, 34319), (534, 34364), (535, 34367), (545, 34403), (556, 34439), (558, 34451), (574, 34487), (587, 34523), (612, 34577),

Gene: RiverRaider_37 Start: 31407, Stop: 33125, Start Num: 107
Candidate Starts for RiverRaider_37:
(Start: 107 @31407 has 30 MA's), (165, 31542), (192, 31608), (222, 31677), (239, 31713), (251, 31752), (292, 31866), (312, 31938), (327, 31977), (329, 31986), (355, 32052), (359, 32058), (413, 32271), (418, 32277), (421, 32283), (441, 32325), (449, 32340), (452, 32349), (497, 32493), (507, 32520), (522, 32577), (532, 32634), (534, 32655), (545, 32694), (556, 32730), (558, 32742), (563, 32757), (570, 32772), (612, 32868),

Gene: Roary_28 Start: 21475, Stop: 23196, Start Num: 78
Candidate Starts for Roary_28:
(Start: 78 @21475 has 14 MA's), (148, 21619), (154, 21634), (Start: 197 @21733 has 1 MA's), (256, 21859), (264, 21880), (289, 21952), (296, 21976), (314, 22030), (360, 22132), (391, 22228), (400, 22282), (409, 22330), (473, 22477), (511, 22603), (560, 22807), (562, 22816), (592, 22897), (632, 22993), (659, 23092), (681, 23179),

Gene: RobinSparkles_30 Start: 32266, Stop: 33954, Start Num: 117
Candidate Starts for RobinSparkles_30:
(Start: 117 @32266 has 5 MA's), (Start: 145 @32329 has 7 MA's), (Start: 176 @32410 has 1 MA's), (187, 32440), (303, 32755), (376, 32911), (378, 32917), (384, 32938), (388, 32956), (401, 33019), (485, 33247), (505, 33316), (508, 33328), (524, 33394), (543, 33505), (573, 33598), (579, 33619), (652, 33817), (662, 33850),

Gene: Rofo_38 Start: 33730, Stop: 35583, Start Num: 29
Candidate Starts for Rofo_38:
(Start: 29 @33730 has 23 MA's), (69, 33865), (77, 33874), (94, 33907), (104, 33931), (136, 34000), (148, 34030), (167, 34075), (245, 34267), (247, 34273), (257, 34294), (264, 34312), (270, 34324), (290, 34384), (332, 34450), (388, 34570), (395, 34603), (413, 34690), (425, 34720), (434, 34732), (452, 34777), (455, 34789), (459, 34807), (466, 34822), (474, 34846), (491, 34912), (500, 34939), (508, 34963), (534, 35086), (544, 35128), (571, 35212), (581, 35242), (599, 35269), (619, 35323), (631, 35353), (649, 35425), (652, 35434),

Gene: Rosalind_33 Start: 21865, Stop: 23577, Start Num: 49
Candidate Starts for Rosalind_33:
(Start: 49 @21865 has 23 MA's), (90, 21958), (158, 22108), (172, 22147), (184, 22177), (249, 22303), (250, 22306), (298, 22444), (317, 22501), (358, 22546), (380, 22552), (394, 22618), (404, 22672), (450, 22786), (455, 22804), (460, 22822), (484, 22879), (531, 23056), (569, 23215), (581, 23251), (629, 23368), (641, 23419), (661, 23479), (667, 23515), (681, 23563),

Gene: Rossetti_20 Start: 19247, Stop: 21043, Start Num: 53
Candidate Starts for Rossetti_20:
(Start: 51 @19244 has 5 MA's), (Start: 53 @19247 has 27 MA's), (98, 19343), (110, 19367), (118, 19388), (125, 19400), (136, 19424), (148, 19451), (Start: 176 @19520 has 1 MA's), (180, 19529), (212, 19604), (225, 19631), (262, 19724), (275, 19748), (300, 19832), (314, 19877), (377, 20033), (383, 20051), (386, 20066), (390, 20084), (391, 20087), (404, 20165), (424, 20222), (426, 20225), (429, 20228), (461, 20312), (465, 20321), (509, 20459), (511, 20462), (528, 20537), (551, 20630), (576, 20705), (578, 20714), (605, 20774), (611, 20789), (617, 20804), (620, 20810), (641, 20888), (642, 20891), (658, 20939), (669, 20990), (680, 21026),

Gene: Rumpelstiltskin_20 Start: 19231, Stop: 21030, Start Num: 51
Candidate Starts for Rumpelstiltskin_20:
(Start: 51 @19231 has 5 MA's), (Start: 53 @19234 has 27 MA's), (125, 19387), (136, 19411), (Start: 176 @19507 has 1 MA's), (180, 19516), (202, 19561), (212, 19591), (225, 19618), (262, 19711), (275, 19735), (300, 19819), (314, 19864), (377, 20020), (383, 20038), (386, 20053), (390, 20071), (391, 20074), (404, 20152), (424, 20209), (426, 20212), (429, 20215), (461, 20299), (465, 20308), (474, 20335), (509, 20446), (511, 20449), (551, 20617), (576, 20692), (578, 20701), (590, 20728), (605, 20761), (611, 20776), (617, 20791), (620, 20797), (641, 20875), (642, 20878), (658, 20926), (680, 21013),

Gene: Sahara_24 Start: 20177, Stop: 21700, Start Num: 189
Candidate Starts for Sahara_24:
(Start: 189 @20177 has 19 MA's), (219, 20249), (226, 20261), (240, 20288), (246, 20312), (295, 20432), (298, 20441), (323, 20507), (378, 20621), (389, 20663), (395, 20693), (401, 20723), (420, 20789), (434, 20813), (444, 20837), (452, 20855), (455, 20867), (459, 20885), (466, 20900), (469, 20906), (483, 20957), (490, 20984), (508, 21035), (541, 21203), (579, 21341), (588, 21362), (589, 21365), (595, 21377), (610, 21416), (653, 21563), (665, 21623), (666, 21626),

Gene: Saintus_28 Start: 21494, Stop: 23215, Start Num: 78
Candidate Starts for Saintus_28:
(Start: 78 @21494 has 14 MA's), (148, 21638), (154, 21653), (Start: 197 @21752 has 1 MA's), (244, 21842), (256, 21878), (264, 21899), (289, 21971), (296, 21995), (314, 22049), (360, 22151), (391, 22247), (400, 22301), (409, 22349), (466, 22478), (473, 22496), (511, 22622), (560, 22826), (562, 22835), (592, 22916), (632, 23012), (659, 23111), (681, 23198),

Gene: Salvador_33 Start: 28218, Stop: 30140, Start Num: 27
Candidate Starts for Salvador_33:
(Start: 27 @28218 has 17 MA's), (63, 28341), (69, 28362), (98, 28410), (Start: 146 @28518 has 1 MA's), (157, 28539), (Start: 199 @28620 has 1 MA's), (208, 28656), (210, 28659), (244, 28737), (245, 28740), (247, 28746), (257, 28767), (270, 28797), (273, 28803), (317, 28938), (351, 29025), (359, 29034), (362, 29040), (364, 29046), (395, 29154), (399, 29175), (416, 29247), (425, 29271), (434, 29283), (455, 29340), (500, 29490), (508, 29514), (545, 29682), (550, 29697), (581, 29793), (628, 29904), (638, 29940),

Gene: Sanjuju_35 Start: 33293, Stop: 35014, Start Num: 107
Candidate Starts for Sanjuju_35:

(Start: 107 @33293 has 30 MA's), (165, 33428), (169, 33437), (Start: 182 @33470 has 2 MA's), (192, 33494), (222, 33563), (251, 33638), (312, 33824), (327, 33863), (329, 33872), (359, 33944), (371, 33968), (392, 34040), (406, 34127), (418, 34163), (421, 34169), (441, 34211), (449, 34226), (452, 34235), (497, 34382), (522, 34466), (529, 34499), (535, 34547), (554, 34613), (556, 34619), (558, 34631), (570, 34661), (574, 34667), (587, 34703), (592, 34712), (612, 34757),

Gene: Santhid_25 Start: 19699, Stop: 21399, Start Num: 91
Candidate Starts for Santhid_25:
(Start: 91 @19699 has 2 MA's), (141, 19798), (191, 19894), (Start: 199 @19909 has 1 MA's), (201, 19915), (244, 20026), (245, 20029), (247, 20035), (257, 20056), (264, 20074), (274, 20092), (285, 20125), (290, 20146), (306, 20194), (335, 20263), (358, 20299), (359, 20302), (388, 20383), (392, 20395), (399, 20437), (420, 20518), (421, 20521), (425, 20530), (434, 20542), (449, 20578), (455, 20599), (459, 20617), (466, 20632), (500, 20749), (508, 20773), (545, 20944), (571, 21043), (577, 21061), (581, 21073), (584, 21079), (599, 21100), (659, 21277), (667, 21316),

Gene: Saronaya_36 Start: 31956, Stop: 33677, Start Num: 107
Candidate Starts for Saronaya_36:
(Start: 107 @31956 has 30 MA's), (162, 32079), (165, 32091), (192, 32157), (222, 32226), (239, 32262), (251, 32301), (312, 32487), (327, 32526), (349, 32586), (371, 32631), (388, 32691), (418, 32826), (421, 32832), (441, 32874), (449, 32889), (458, 32925), (470, 32946), (497, 33045), (522, 33129), (529, 33162), (534, 33207), (535, 33210), (545, 33246), (556, 33282), (558, 33294), (574, 33330), (587, 33366), (612, 33420),

Gene: Sarshaun_20 Start: 19261, Stop: 21057, Start Num: 53
Candidate Starts for Sarshaun_20:
(Start: 51 @19258 has 5 MA's), (Start: 53 @19261 has 27 MA's), (125, 19414), (136, 19438), (Start: 176 @19534 has 1 MA's), (180, 19543), (201, 19585), (202, 19588), (212, 19618), (225, 19645), (262, 19738), (275, 19762), (300, 19846), (314, 19891), (329, 19927), (377, 20047), (383, 20065), (386, 20080), (390, 20098), (391, 20101), (404, 20179), (424, 20236), (426, 20239), (429, 20242), (461, 20326), (465, 20335), (474, 20362), (509, 20473), (511, 20476), (551, 20644), (576, 20719), (578, 20728), (590, 20755), (605, 20788), (611, 20803), (617, 20818), (620, 20824), (641, 20902), (642, 20905), (680, 21040),

Gene: Savage_25 Start: 20505, Stop: 22028, Start Num: 189
Candidate Starts for Savage_25:
(Start: 189 @20505 has 19 MA's), (219, 20577), (226, 20589), (240, 20616), (242, 20622), (246, 20640), (295, 20760), (298, 20769), (323, 20835), (378, 20949), (389, 20991), (395, 21021), (401, 21051), (414, 21111), (420, 21117), (434, 21141), (444, 21165), (452, 21183), (455, 21195), (459, 21213), (466, 21228), (469, 21234), (483, 21285), (490, 21312), (508, 21363), (541, 21531), (579, 21669), (588, 21690), (589, 21693), (595, 21705), (610, 21744), (653, 21891), (665, 21951), (666, 21954),

Gene: Savbucketdawg_33 Start: 27999, Stop: 29921, Start Num: 27
Candidate Starts for Savbucketdawg_33:
(Start: 27 @27999 has 17 MA's), (63, 28122), (69, 28143), (98, 28191), (Start: 146 @28299 has 1 MA's), (157, 28320), (Start: 199 @28401 has 1 MA's), (208, 28437), (210, 28440), (244, 28518), (245, 28521), (247, 28527), (257, 28548), (270, 28578), (273, 28584), (317, 28719), (351, 28806), (359, 28815), (362, 28821), (364, 28827), (388, 28902), (395, 28935), (399, 28956), (416, 29028), (425, 29052), (434, 29064), (455, 29121), (500, 29271), (508, 29295), (545, 29463), (550, 29478), (581, 29574), (628, 29685), (638, 29721),

Gene: Schmidt_27 Start: 20153, Stop: 21607, Start Num: 197
Candidate Starts for Schmidt_27:

(Start: 197 @20153 has 1 MA's), (202, 20165), (224, 20222), (234, 20240), (253, 20294), (281, 20360), (283, 20369), (307, 20420), (354, 20525), (361, 20534), (369, 20552), (374, 20567), (381, 20588), (388, 20618), (396, 20660), (399, 20672), (402, 20684), (403, 20693), (412, 20732), (434, 20762), (443, 20783), (452, 20807), (483, 20906), (499, 20963), (500, 20966), (547, 21170), (566, 21242), (580, 21275), (594, 21302), (601, 21314), (608, 21338), (614, 21353), (630, 21386), (665, 21524),

Gene: SchottB_35 Start: 32971, Stop: 34692, Start Num: 107
Candidate Starts for SchottB_35:
(Start: 107 @32971 has 30 MA's), (162, 33094), (165, 33106), (192, 33172), (222, 33241), (239, 33277), (312, 33502), (327, 33541), (349, 33601), (371, 33646), (388, 33706), (418, 33841), (421, 33847), (441, 33889), (449, 33904), (458, 33940), (470, 33961), (497, 34060), (522, 34144), (529, 34177), (534, 34222), (535, 34225), (545, 34261), (556, 34297), (558, 34309), (574, 34345), (587, 34381), (612, 34435),

Gene: Sedona_38 Start: 34836, Stop: 36758, Start Num: 29
Candidate Starts for Sedona_38:
(Start: 29 @34836 has 23 MA's), (69, 34971), (77, 34980), (94, 35013), (104, 35037), (136, 35106), (167, 35181), (245, 35373), (247, 35379), (257, 35400), (264, 35418), (270, 35430), (290, 35490), (308, 35544), (359, 35658), (388, 35745), (399, 35799), (413, 35865), (425, 35895), (434, 35907), (452, 35952), (455, 35964), (459, 35982), (471, 36009), (491, 36087), (500, 36114), (508, 36138), (534, 36261), (544, 36303), (571, 36387), (581, 36417), (599, 36444), (619, 36498), (631, 36528), (649, 36600), (652, 36609),

Gene: Sendy_34 Start: 28424, Stop: 30346, Start Num: 27
Candidate Starts for Sendy_34:
(Start: 27 @28424 has 17 MA's), (63, 28547), (69, 28568), (98, 28616), (Start: 146 @28724 has 1 MA's), (157, 28745), (Start: 199 @28826 has 1 MA's), (208, 28862), (210, 28865), (244, 28943), (245, 28946), (247, 28952), (257, 28973), (270, 29003), (273, 29009), (317, 29144), (351, 29231), (359, 29240), (362, 29246), (364, 29252), (388, 29327), (395, 29360), (399, 29381), (416, 29453), (425, 29477), (434, 29489), (455, 29546), (500, 29696), (508, 29720), (545, 29888), (550, 29903), (581, 29999), (628, 30110), (638, 30146),

Gene: Sephiroth_30 Start: 24175, Stop: 25827, Start Num: 100
Candidate Starts for Sephiroth_30:
(Start: 100 @24175 has 6 MA's), (192, 24349), (196, 24355), (Start: 197 @24358 has 1 MA's), (203, 24373), (218, 24415), (228, 24427), (244, 24469), (245, 24472), (247, 24478), (253, 24490), (257, 24499), (264, 24517), (270, 24529), (273, 24535), (294, 24601), (298, 24616), (299, 24622), (351, 24757), (368, 24784), (372, 24790), (395, 24883), (434, 25003), (452, 25045), (455, 25057), (500, 25207), (508, 25231), (512, 25249), (529, 25312), (545, 25399), (550, 25414), (556, 25435), (571, 25480), (577, 25498), (586, 25519), (605, 25561), (613, 25585), (633, 25633), (654, 25708), (665, 25759), (682, 25822),

Gene: ShawBrad_29 Start: 22131, Stop: 23966, Start Num: 30
Candidate Starts for ShawBrad_29:
(Start: 30 @22131 has 23 MA's), (85, 22293), (Start: 101 @22323 has 1 MA's), (129, 22377), (136, 22392), (Start: 140 @22404 has 1 MA's), (141, 22407), (150, 22422), (Start: 152 @22425 has 2 MA's), (153, 22428), (Start: 199 @22518 has 1 MA's), (202, 22527), (203, 22530), (240, 22617), (245, 22638), (247, 22644), (257, 22665), (260, 22674), (270, 22695), (273, 22701), (319, 22803), (321, 22806), (337, 22836), (343, 22848), (359, 22872), (388, 22947), (392, 22959), (399, 23001), (405, 23034), (413, 23067), (416, 23073), (425, 23097), (434, 23109), (455, 23166), (459, 23184), (500, 23316), (508, 23340), (512, 23358), (545, 23511), (550, 23526), (554, 23541), (556, 23547), (571, 23592), (577, 23610), (581, 23622), (584, 23628), (592, 23640), (599, 23649), (619, 23703), (628, 23727), (639, 23772), (649, 23805), (651, 23811), (665, 23874), (666, 23877), (671, 23895), (677, 23916),

(679, 23925),

Gene: ShayRa_34 Start: 21865, Stop: 23577, Start Num: 49
Candidate Starts for ShayRa_34:
(Start: 49 @21865 has 23 MA's), (90, 21958), (158, 22108), (172, 22147), (184, 22177), (249, 22303), (250, 22306), (298, 22444), (317, 22501), (358, 22546), (380, 22552), (394, 22618), (404, 22672), (450, 22786), (455, 22804), (460, 22822), (484, 22879), (531, 23056), (569, 23215), (581, 23251), (629, 23368), (641, 23419), (661, 23479), (667, 23515), (681, 23563),

Gene: Shivanishola_38 Start: 33192, Stop: 35114, Start Num: 29
Candidate Starts for Shivanishola_38:
(Start: 29 @33192 has 23 MA's), (69, 33327), (77, 33336), (94, 33369), (104, 33393), (136, 33462), (148, 33492), (167, 33537), (245, 33729), (247, 33735), (257, 33756), (264, 33774), (270, 33786), (290, 33846), (308, 33900), (359, 34014), (388, 34101), (399, 34155), (413, 34221), (425, 34251), (434, 34263), (452, 34308), (455, 34320), (459, 34338), (471, 34365), (491, 34443), (500, 34470), (508, 34494), (534, 34617), (544, 34659), (571, 34743), (581, 34773), (619, 34854), (631, 34884), (649, 34956), (652, 34965),

Gene: Sidious_27 Start: 22956, Stop: 24578, Start Num: 152
Candidate Starts for Sidious_27:
(72, 22788), (Start: 152 @22956 has 2 MA's), (181, 23034), (222, 23130), (232, 23148), (240, 23166), (247, 23193), (259, 23217), (295, 23310), (378, 23499), (389, 23541), (395, 23571), (401, 23601), (420, 23667), (434, 23691), (444, 23715), (455, 23745), (466, 23778), (469, 23784), (482, 23832), (483, 23835), (490, 23862), (508, 23913), (541, 24081), (554, 24123), (566, 24180), (579, 24219), (588, 24240), (589, 24243), (595, 24255), (610, 24294), (626, 24333), (641, 24402), (666, 24504),

Gene: Sienna_25 Start: 21340, Stop: 23304, Start Num: 33
Candidate Starts for Sienna_25:
(Start: 33 @21340 has 7 MA's), (Start: 52 @21421 has 17 MA's), (56, 21430), (70, 21469), (73, 21472), (139, 21604), (160, 21646), (164, 21664), (Start: 197 @21742 has 1 MA's), (219, 21805), (267, 21919), (280, 21955), (291, 21994), (308, 22048), (326, 22099), (365, 22198), (388, 22273), (392, 22285), (404, 22360), (452, 22477), (453, 22480), (502, 22636), (549, 22849), (555, 22867), (566, 22924), (569, 22930), (581, 22966), (584, 22972), (648, 23158), (667, 23227), (679, 23269), (686, 23299),

Gene: Sitar_38 Start: 34887, Stop: 36809, Start Num: 29
Candidate Starts for Sitar_38:
(Start: 29 @34887 has 23 MA's), (69, 35022), (77, 35031), (94, 35064), (104, 35088), (136, 35157), (167, 35232), (245, 35424), (247, 35430), (257, 35451), (264, 35469), (270, 35481), (290, 35541), (308, 35595), (359, 35709), (388, 35796), (399, 35850), (409, 35904), (413, 35916), (425, 35946), (434, 35958), (452, 36003), (455, 36015), (459, 36033), (471, 36060), (491, 36138), (500, 36165), (508, 36189), (534, 36312), (544, 36354), (571, 36438), (581, 36468), (619, 36549), (631, 36579), (649, 36651), (652, 36660),

Gene: Sixama_102 Start: 61915, Stop: 63603, Start Num: 80
Candidate Starts for Sixama_102:
(65, 61888), (66, 61894), (Start: 78 @61909 has 14 MA's), (Start: 80 @61915 has 1 MA's), (Start: 101 @61957 has 1 MA's), (141, 62032), (142, 62035), (157, 62056), (162, 62068), (243, 62248), (264, 62299), (284, 62347), (364, 62539), (500, 62971), (508, 62995), (546, 63175), (547, 63178), (554, 63199), (587, 63298), (621, 63376), (648, 63457),

Gene: Smeadley_28 Start: 21508, Stop: 23229, Start Num: 78
Candidate Starts for Smeadley_28:

(Start: 78 @21508 has 14 MA's), (148, 21652), (154, 21667), (Start: 197 @21766 has 1 MA's), (244, 21856), (256, 21892), (264, 21913), (289, 21985), (296, 22009), (314, 22063), (360, 22165), (391, 22261), (400, 22315), (409, 22363), (466, 22492), (473, 22510), (511, 22636), (560, 22840), (562, 22849), (592, 22930), (632, 23026), (659, 23125), (681, 23212),

Gene: SmokingBunny_33 Start: 28209, Stop: 30131, Start Num: 27
Candidate Starts for SmokingBunny_33:
(Start: 27 @28209 has 17 MA's), (63, 28332), (69, 28353), (98, 28401), (Start: 146 @28509 has 1 MA's), (157, 28530), (Start: 199 @28611 has 1 MA's), (208, 28647), (210, 28650), (244, 28728), (245, 28731), (247, 28737), (257, 28758), (270, 28788), (273, 28794), (317, 28929), (351, 29016), (359, 29025), (362, 29031), (364, 29037), (388, 29112), (395, 29145), (399, 29166), (416, 29238), (425, 29262), (434, 29274), (455, 29331), (500, 29481), (508, 29505), (545, 29673), (550, 29688), (581, 29784), (628, 29895), (638, 29931),

Gene: Smoothie_58 Start: 35857, Stop: 37689, Start Num: 52
Candidate Starts for Smoothie_58:
(Start: 52 @35857 has 17 MA's), (103, 35962), (Start: 107 @35971 has 30 MA's), (137, 36025), (178, 36115), (194, 36154), (202, 36172), (249, 36256), (277, 36325), (375, 36595), (410, 36757), (450, 36841), (452, 36847), (488, 36967), (555, 37243), (566, 37300), (569, 37306), (616, 37423), (627, 37450), (648, 37534), (667, 37603),

Gene: SoJulia_20 Start: 19227, Stop: 21023, Start Num: 53
Candidate Starts for SoJulia_20:
(Start: 51 @19224 has 5 MA's), (Start: 53 @19227 has 27 MA's), (125, 19380), (136, 19404), (Start: 176 @19500 has 1 MA's), (180, 19509), (202, 19554), (212, 19584), (225, 19611), (262, 19704), (275, 19728), (300, 19812), (314, 19857), (377, 20013), (383, 20031), (386, 20046), (390, 20064), (391, 20067), (404, 20145), (424, 20202), (429, 20208), (461, 20292), (465, 20301), (509, 20439), (511, 20442), (551, 20610), (576, 20685), (578, 20694), (590, 20721), (600, 20739), (605, 20754), (611, 20769), (617, 20784), (620, 20790), (641, 20868), (642, 20871), (658, 20919), (680, 21006),

Gene: Soap141_20 Start: 19261, Stop: 21057, Start Num: 53
Candidate Starts for Soap141_20:
(Start: 51 @19258 has 5 MA's), (Start: 53 @19261 has 27 MA's), (125, 19414), (136, 19438), (Start: 176 @19534 has 1 MA's), (180, 19543), (201, 19585), (202, 19588), (212, 19618), (225, 19645), (262, 19738), (275, 19762), (300, 19846), (314, 19891), (329, 19927), (377, 20047), (383, 20065), (386, 20080), (390, 20098), (391, 20101), (404, 20179), (424, 20236), (426, 20239), (429, 20242), (461, 20326), (465, 20335), (474, 20362), (509, 20473), (511, 20476), (551, 20644), (576, 20719), (578, 20728), (590, 20755), (605, 20788), (611, 20803), (617, 20818), (620, 20824), (641, 20902), (642, 20905), (680, 21040),

Gene: SoilAssassin_25 Start: 20498, Stop: 22021, Start Num: 189
Candidate Starts for SoilAssassin_25:
(Start: 189 @20498 has 19 MA's), (219, 20570), (226, 20582), (240, 20609), (246, 20633), (295, 20753), (298, 20762), (323, 20828), (378, 20942), (389, 20984), (395, 21014), (401, 21044), (420, 21110), (434, 21134), (444, 21158), (452, 21176), (455, 21188), (459, 21206), (466, 21221), (469, 21227), (483, 21278), (490, 21305), (508, 21356), (541, 21524), (547, 21545), (566, 21623), (579, 21662), (588, 21683), (589, 21686), (595, 21698), (610, 21737), (653, 21884), (665, 21944), (666, 21947),

Gene: Soups_33 Start: 21865, Stop: 23577, Start Num: 49
Candidate Starts for Soups_33:
(Start: 49 @21865 has 23 MA's), (90, 21958), (158, 22108), (172, 22147), (184, 22177), (249, 22303), (250, 22306), (298, 22444), (317, 22501), (358, 22546), (380, 22552), (394, 22618), (404, 22672),

(450, 22786), (455, 22804), (460, 22822), (484, 22879), (531, 23056), (569, 23215), (581, 23251), (629, 23368), (641, 23419), (661, 23479), (667, 23515), (681, 23563),

Gene: Spooky_29 Start: 22210, Stop: 24102, Start Num: 26
Candidate Starts for Spooky_29:
(Start: 26 @22210 has 2 MA's), (77, 22372), (94, 22402), (Start: 140 @22483 has 1 MA's), (141, 22486), (148, 22501), (149, 22504), (185, 22582), (198, 22606), (240, 22696), (247, 22723), (257, 22744), (264, 22762), (270, 22774), (290, 22834), (308, 22888), (359, 23002), (372, 23029), (388, 23089), (389, 23092), (395, 23122), (425, 23239), (434, 23251), (455, 23308), (459, 23326), (500, 23458), (508, 23482), (517, 23515), (544, 23647), (545, 23650), (571, 23731), (581, 23761), (619, 23842), (652, 23953), (664, 24007),

Gene: Sproutie_25 Start: 20505, Stop: 22028, Start Num: 189
Candidate Starts for Sproutie_25:
(Start: 189 @20505 has 19 MA's), (219, 20577), (226, 20589), (240, 20616), (242, 20622), (246, 20640), (295, 20760), (298, 20769), (323, 20835), (378, 20949), (389, 20991), (395, 21021), (401, 21051), (414, 21111), (420, 21117), (434, 21141), (444, 21165), (452, 21183), (455, 21195), (459, 21213), (466, 21228), (469, 21234), (483, 21285), (490, 21312), (508, 21363), (541, 21531), (579, 21669), (588, 21690), (589, 21693), (595, 21705), (610, 21744), (653, 21891), (665, 21951), (666, 21954),

Gene: Squiddly_31 Start: 23622, Stop: 25514, Start Num: 26
Candidate Starts for Squiddly_31:
(Start: 26 @23622 has 2 MA's), (77, 23784), (94, 23814), (Start: 140 @23895 has 1 MA's), (141, 23898), (148, 23913), (149, 23916), (185, 23994), (198, 24018), (240, 24108), (247, 24135), (257, 24156), (264, 24174), (270, 24186), (290, 24246), (308, 24300), (359, 24414), (372, 24441), (388, 24501), (389, 24504), (395, 24534), (425, 24651), (434, 24663), (455, 24720), (459, 24738), (500, 24870), (508, 24894), (517, 24927), (544, 25059), (545, 25062), (571, 25143), (581, 25173), (619, 25254), (652, 25365), (664, 25419),

Gene: Stephig9_28 Start: 21490, Stop: 23211, Start Num: 78
Candidate Starts for Stephig9_28:
(Start: 78 @21490 has 14 MA's), (148, 21634), (Start: 197 @21748 has 1 MA's), (256, 21874), (264, 21895), (289, 21967), (296, 21991), (314, 22045), (360, 22147), (391, 22243), (400, 22297), (409, 22345), (466, 22474), (473, 22492), (511, 22618), (560, 22822), (562, 22831), (592, 22912), (632, 23008), (659, 23107),

Gene: Stichling_34 Start: 31491, Stop: 33212, Start Num: 107
Candidate Starts for Stichling_34:
(Start: 107 @31491 has 30 MA's), (162, 31614), (165, 31626), (192, 31692), (222, 31761), (239, 31797), (312, 32022), (327, 32061), (349, 32121), (371, 32166), (388, 32226), (418, 32361), (421, 32367), (441, 32409), (449, 32424), (458, 32460), (470, 32481), (497, 32580), (522, 32664), (529, 32697), (534, 32742), (535, 32745), (545, 32781), (556, 32817), (558, 32829), (574, 32865), (587, 32901), (612, 32955),

Gene: StorminNorm_36 Start: 31838, Stop: 33559, Start Num: 107
Candidate Starts for StorminNorm_36:
(Start: 107 @31838 has 30 MA's), (162, 31961), (165, 31973), (192, 32039), (222, 32108), (239, 32144), (312, 32369), (327, 32408), (349, 32468), (371, 32513), (388, 32573), (418, 32708), (421, 32714), (441, 32756), (449, 32771), (458, 32807), (470, 32828), (497, 32927), (522, 33011), (529, 33044), (534, 33089), (535, 33092), (545, 33128), (556, 33164), (558, 33176), (574, 33212), (587, 33248), (612, 33302),

Gene: Strosahl_33 Start: 21707, Stop: 23419, Start Num: 49
Candidate Starts for Strosahl_33:
(Start: 49 @21707 has 23 MA's), (90, 21800), (158, 21950), (172, 21989), (184, 22019), (249, 22145), (250, 22148), (298, 22286), (317, 22343), (358, 22388), (380, 22394), (394, 22460), (404, 22514), (450, 22628), (455, 22646), (460, 22664), (484, 22721), (531, 22898), (569, 23057), (581, 23093), (629, 23210), (641, 23261), (661, 23321), (667, 23357), (681, 23405),

Gene: Stultus_35 Start: 32209, Stop: 33930, Start Num: 107
Candidate Starts for Stultus_35:
(Start: 107 @32209 has 30 MA's), (165, 32344), (169, 32353), (Start: 182 @32386 has 2 MA's), (192, 32410), (222, 32479), (251, 32554), (312, 32740), (327, 32779), (329, 32788), (336, 32803), (359, 32860), (371, 32884), (392, 32956), (406, 33043), (418, 33079), (421, 33085), (441, 33127), (449, 33142), (452, 33151), (497, 33298), (522, 33382), (529, 33415), (535, 33463), (554, 33529), (556, 33535), (558, 33547), (570, 33577), (574, 33583), (587, 33619), (592, 33628), (612, 33673),

Gene: Suerte_24 Start: 21509, Stop: 23182, Start Num: 99
Candidate Starts for Suerte_24:
(36, 21338), (37, 21341), (Start: 99 @21509 has 4 MA's), (120, 21551), (127, 21566), (138, 21590), (203, 21719), (240, 21806), (245, 21827), (257, 21854), (260, 21863), (270, 21884), (273, 21890), (290, 21944), (388, 22187), (425, 22331), (434, 22343), (438, 22358), (449, 22379), (452, 22388), (455, 22400), (500, 22550), (516, 22604), (545, 22742), (550, 22757), (581, 22853), (658, 23060),

Gene: Suscepit_28 Start: 22923, Stop: 24428, Start Num: 195
Candidate Starts for Suscepit_28:
(Start: 195 @22923 has 29 MA's), (223, 22992), (229, 23004), (271, 23115), (276, 23127), (278, 23133), (303, 23220), (314, 23256), (317, 23262), (321, 23271), (413, 23565), (442, 23619), (444, 23622), (452, 23643), (467, 23688), (497, 23793), (522, 23877), (534, 23958), (535, 23961), (568, 24084), (609, 24180), (628, 24228), (643, 24288), (657, 24321), (660, 24327), (676, 24399),

Gene: SushiChef_28 Start: 23125, Stop: 24630, Start Num: 195
Candidate Starts for SushiChef_28:
(109, 22918), (138, 22987), (Start: 140 @22990 has 1 MA's), (150, 23014), (153, 23020), (Start: 195 @23125 has 29 MA's), (223, 23194), (229, 23206), (271, 23317), (274, 23323), (276, 23329), (278, 23335), (303, 23422), (314, 23458), (317, 23464), (321, 23473), (413, 23767), (442, 23821), (444, 23824), (452, 23845), (467, 23890), (497, 23995), (522, 24079), (534, 24160), (535, 24163), (609, 24382), (628, 24430), (643, 24490), (657, 24523), (660, 24529), (676, 24601),

Gene: Suzy_25 Start: 22501, Stop: 24465, Start Num: 33
Candidate Starts for Suzy_25:
(Start: 33 @22501 has 7 MA's), (Start: 52 @22582 has 17 MA's), (56, 22591), (73, 22633), (139, 22765), (164, 22825), (Start: 176 @22852 has 1 MA's), (Start: 197 @22903 has 1 MA's), (267, 23080), (280, 23116), (286, 23137), (308, 23209), (314, 23230), (365, 23359), (388, 23434), (404, 23521), (406, 23527), (419, 23566), (428, 23584), (452, 23638), (453, 23641), (555, 24028), (558, 24043), (566, 24085), (569, 24091), (584, 24133), (586, 24136), (648, 24319), (684, 24451), (686, 24460),

Gene: Switzerland_33 Start: 21858, Stop: 23570, Start Num: 49
Candidate Starts for Switzerland_33:
(Start: 49 @21858 has 23 MA's), (90, 21951), (158, 22101), (172, 22140), (184, 22170), (249, 22296), (250, 22299), (298, 22437), (317, 22494), (358, 22539), (380, 22545), (394, 22611), (404, 22665), (450, 22779), (455, 22797), (460, 22815), (484, 22872), (531, 23049), (569, 23208), (581, 23244), (629, 23361), (641, 23412), (661, 23472), (667, 23508), (681, 23556),

Gene: Syleon_30 Start: 24097, Stop: 25749, Start Num: 100

Candidate Starts for Syleon_30:
(Start: 100 @24097 has 6 MA's), (192, 24271), (196, 24277), (Start: 197 @24280 has 1 MA's), (203, 24295), (218, 24337), (228, 24349), (244, 24391), (245, 24394), (247, 24400), (253, 24412), (257, 24421), (264, 24439), (270, 24451), (273, 24457), (294, 24523), (298, 24538), (299, 24544), (351, 24679), (368, 24706), (372, 24712), (395, 24805), (434, 24925), (452, 24967), (455, 24979), (500, 25129), (508, 25153), (512, 25171), (529, 25234), (545, 25321), (550, 25336), (571, 25402), (577, 25420), (586, 25441), (605, 25483), (613, 25507), (633, 25555), (654, 25630), (665, 25681), (682, 25744),

Gene: Tangent_38 Start: 33252, Stop: 35174, Start Num: 29
Candidate Starts for Tangent_38:
(Start: 29 @33252 has 23 MA's), (69, 33387), (77, 33396), (94, 33429), (104, 33453), (136, 33522), (148, 33552), (167, 33597), (245, 33789), (247, 33795), (257, 33816), (264, 33834), (270, 33846), (290, 33906), (308, 33960), (359, 34074), (388, 34161), (399, 34215), (413, 34281), (425, 34311), (434, 34323), (452, 34368), (455, 34380), (459, 34398), (471, 34425), (491, 34503), (500, 34530), (508, 34554), (534, 34677), (544, 34719), (571, 34803), (581, 34833), (599, 34860), (619, 34914), (631, 34944), (649, 35016), (652, 35025),

Gene: Tangerine_36 Start: 31841, Stop: 33562, Start Num: 107
Candidate Starts for Tangerine_36:
(Start: 107 @31841 has 30 MA's), (162, 31964), (165, 31976), (192, 32042), (222, 32111), (239, 32147), (251, 32186), (312, 32372), (327, 32411), (349, 32471), (371, 32516), (388, 32576), (418, 32711), (421, 32717), (441, 32759), (449, 32774), (458, 32810), (470, 32831), (497, 32930), (522, 33014), (529, 33047), (534, 33092), (535, 33095), (545, 33131), (556, 33167), (558, 33179), (574, 33215), (587, 33251), (612, 33305),

Gene: Tarzan_25 Start: 19667, Stop: 21313, Start Num: 93
Candidate Starts for Tarzan_25:
(Start: 93 @19667 has 1 MA's), (141, 19766), (191, 19862), (Start: 199 @19877 has 1 MA's), (247, 20003), (257, 20024), (270, 20054), (329, 20180), (388, 20300), (389, 20303), (392, 20312), (399, 20354), (401, 20363), (413, 20420), (417, 20432), (425, 20450), (434, 20462), (455, 20519), (470, 20561), (474, 20576), (500, 20669), (508, 20693), (512, 20711), (534, 20819), (545, 20864), (581, 20975), (584, 20981), (599, 21002), (613, 21044), (628, 21080), (639, 21125), (666, 21230),

Gene: Tayonia_28 Start: 22923, Stop: 24428, Start Num: 195
Candidate Starts for Tayonia_28:
(Start: 195 @22923 has 29 MA's), (223, 22992), (229, 23004), (271, 23115), (276, 23127), (278, 23133), (303, 23220), (314, 23256), (317, 23262), (321, 23271), (413, 23565), (442, 23619), (444, 23622), (452, 23643), (467, 23688), (497, 23793), (522, 23877), (534, 23958), (535, 23961), (568, 24084), (609, 24180), (628, 24228), (643, 24288), (657, 24321), (660, 24327), (676, 24399),

Gene: Terapin_25 Start: 21340, Stop: 23304, Start Num: 33
Candidate Starts for Terapin_25:
(Start: 33 @21340 has 7 MA's), (Start: 52 @21421 has 17 MA's), (56, 21430), (70, 21469), (73, 21472), (139, 21604), (160, 21646), (164, 21664), (Start: 197 @21742 has 1 MA's), (219, 21805), (267, 21919), (280, 21955), (291, 21994), (308, 22048), (326, 22099), (365, 22198), (388, 22273), (392, 22285), (404, 22360), (452, 22477), (453, 22480), (456, 22492), (549, 22849), (555, 22867), (566, 22924), (569, 22930), (581, 22966), (584, 22972), (648, 23158), (667, 23227),

Gene: ThankyouJordi_25 Start: 22901, Stop: 24409, Start Num: 195
Candidate Starts for ThankyouJordi_25:
(Start: 61 @22586 has 2 MA's), (109, 22694), (138, 22763), (Start: 140 @22766 has 1 MA's), (150, 22790), (153, 22796), (Start: 195 @22901 has 29 MA's), (227, 22979), (229, 22982), (260, 23072),

(277, 23108), (278, 23111), (314, 23234), (317, 23240), (321, 23249), (400, 23480), (412, 23543), (413, 23546), (431, 23573), (442, 23600), (444, 23603), (473, 23684), (497, 23774), (535, 23942), (556, 24017), (559, 24032), (609, 24161), (638, 24245), (660, 24308), (676, 24380),

Gene: Thimann_26 Start: 21977, Stop: 23650, Start Num: 99
Candidate Starts for Thimann_26:
(36, 21806), (37, 21809), (Start: 99 @21977 has 4 MA's), (120, 22019), (127, 22034), (138, 22058), (203, 22187), (240, 22274), (245, 22295), (257, 22322), (260, 22331), (270, 22352), (273, 22358), (290, 22412), (388, 22655), (425, 22799), (434, 22811), (438, 22826), (449, 22847), (452, 22856), (455, 22868), (500, 23018), (516, 23072), (545, 23210), (550, 23225), (581, 23321), (658, 23528),

Gene: Thing3_36 Start: 33130, Stop: 35052, Start Num: 29
Candidate Starts for Thing3_36:
(Start: 29 @33130 has 23 MA's), (69, 33265), (77, 33274), (94, 33307), (104, 33331), (136, 33400), (167, 33475), (245, 33667), (247, 33673), (257, 33694), (264, 33712), (270, 33724), (290, 33784), (308, 33838), (359, 33952), (388, 34039), (399, 34093), (409, 34147), (413, 34159), (425, 34189), (434, 34201), (452, 34246), (455, 34258), (459, 34276), (471, 34303), (491, 34381), (500, 34408), (508, 34432), (534, 34555), (544, 34597), (571, 34681), (581, 34711), (599, 34738), (619, 34792), (631, 34822), (649, 34894), (652, 34903),

Gene: TillyBobJoe_33 Start: 28008, Stop: 29942, Start Num: 27
Candidate Starts for TillyBobJoe_33:
(Start: 27 @28008 has 17 MA's), (63, 28131), (69, 28152), (98, 28200), (Start: 146 @28308 has 1 MA's), (157, 28329), (Start: 199 @28410 has 1 MA's), (208, 28446), (210, 28449), (244, 28527), (245, 28530), (247, 28536), (257, 28557), (270, 28587), (273, 28593), (317, 28728), (351, 28815), (359, 28824), (362, 28830), (364, 28836), (388, 28911), (395, 28944), (399, 28965), (416, 29037), (425, 29061), (434, 29073), (455, 29130), (500, 29280), (508, 29304), (545, 29472), (550, 29487), (581, 29583), (628, 29694), (638, 29730),

Gene: TimTam_26 Start: 22926, Stop: 24431, Start Num: 195
Candidate Starts for TimTam_26:
(Start: 61 @22611 has 2 MA's), (109, 22719), (138, 22788), (Start: 140 @22791 has 1 MA's), (150, 22815), (153, 22821), (Start: 195 @22926 has 29 MA's), (223, 22995), (229, 23007), (271, 23118), (274, 23124), (276, 23130), (278, 23136), (303, 23223), (314, 23259), (317, 23265), (321, 23274), (413, 23568), (442, 23622), (444, 23625), (452, 23646), (467, 23691), (497, 23796), (522, 23880), (534, 23961), (535, 23964), (609, 24183), (628, 24231), (643, 24291), (657, 24324), (660, 24330), (676, 24402),

Gene: TinyDot_26 Start: 19859, Stop: 21466, Start Num: 145
Candidate Starts for TinyDot_26:
(Start: 145 @19859 has 7 MA's), (179, 19928), (192, 19943), (196, 19949), (208, 19991), (245, 20075), (247, 20081), (257, 20102), (264, 20120), (285, 20171), (290, 20192), (294, 20204), (368, 20390), (388, 20456), (389, 20459), (395, 20489), (409, 20567), (420, 20588), (425, 20600), (434, 20612), (455, 20669), (469, 20708), (500, 20819), (517, 20876), (527, 20915), (545, 21011), (556, 21047), (571, 21092), (584, 21128), (619, 21203), (628, 21227), (639, 21272), (649, 21305), (652, 21314), (666, 21377),

Gene: Togo_33 Start: 28209, Stop: 30131, Start Num: 27
Candidate Starts for Togo_33:
(Start: 27 @28209 has 17 MA's), (63, 28332), (69, 28353), (98, 28401), (Start: 146 @28509 has 1 MA's), (157, 28530), (Start: 199 @28611 has 1 MA's), (208, 28647), (210, 28650), (244, 28728), (245, 28731), (247, 28737), (257, 28758), (270, 28788), (273, 28794), (317, 28929), (351, 29016), (359, 29025), (362, 29031), (364, 29037), (388, 29112), (395, 29145), (399, 29166), (416, 29238), (425,

29262), (434, 29274), (455, 29331), (500, 29481), (508, 29505), (545, 29673), (550, 29688), (581, 29784), (628, 29895), (638, 29931),

Gene: Toniann_56 Start: 35344, Stop: 37176, Start Num: 52
Candidate Starts for Toniann_56:
(Start: 52 @35344 has 17 MA's), (103, 35449), (Start: 107 @35458 has 30 MA's), (137, 35512), (178, 35602), (194, 35641), (202, 35659), (249, 35743), (277, 35812), (375, 36082), (410, 36244), (450, 36328), (452, 36334), (488, 36454), (555, 36730), (566, 36787), (569, 36793), (616, 36910), (627, 36937), (648, 37021), (667, 37090),

Gene: Tourach_20 Start: 19226, Stop: 21022, Start Num: 53
Candidate Starts for Tourach_20:
(Start: 53 @19226 has 27 MA's), (125, 19379), (136, 19403), (181, 19511), (202, 19553), (212, 19583), (225, 19610), (261, 19700), (262, 19703), (275, 19727), (300, 19811), (314, 19856), (336, 19907), (377, 20012), (386, 20045), (391, 20066), (404, 20144), (429, 20207), (461, 20291), (465, 20300), (509, 20438), (528, 20516), (551, 20609), (555, 20624), (576, 20684), (578, 20693), (590, 20720), (594, 20729), (605, 20753), (611, 20768), (617, 20783), (620, 20789), (625, 20801), (658, 20918), (677, 20993), (680, 21005),

Gene: Trax_30 Start: 25810, Stop: 27396, Start Num: 100
Candidate Starts for Trax_30:
(Start: 100 @25810 has 6 MA's), (121, 25846), (191, 25990), (201, 26011), (202, 26014), (203, 26017), (209, 26041), (226, 26071), (228, 26074), (244, 26116), (245, 26119), (257, 26146), (260, 26155), (270, 26176), (273, 26182), (289, 26233), (290, 26236), (311, 26257), (338, 26299), (350, 26320), (351, 26323), (368, 26335), (388, 26401), (399, 26455), (406, 26491), (434, 26554), (445, 26578), (452, 26596), (455, 26608), (459, 26626), (466, 26641), (500, 26758), (502, 26764), (508, 26782), (510, 26788), (512, 26800), (520, 26827), (538, 26926), (545, 26950), (550, 26965), (561, 27004), (571, 27031), (575, 27037), (577, 27049), (581, 27061), (584, 27067), (602, 27103), (621, 27157), (659, 27286), (664, 27313), (675, 27346),

Gene: Trine_24 Start: 19054, Stop: 20592, Start Num: 182
Candidate Starts for Trine_24:
(Start: 182 @19054 has 2 MA's), (232, 19165), (236, 19174), (257, 19240), (266, 19261), (272, 19273), (289, 19327), (321, 19426), (330, 19453), (397, 19648), (431, 19750), (442, 19777), (497, 19951), (518, 20017), (522, 20035), (529, 20068), (556, 20191), (558, 20203), (568, 20239), (587, 20287), (596, 20302), (650, 20455), (652, 20461), (655, 20473), (656, 20482),

Gene: Trumpet_28 Start: 22923, Stop: 24428, Start Num: 195
Candidate Starts for Trumpet_28:
(Start: 195 @22923 has 29 MA's), (223, 22992), (229, 23004), (271, 23115), (276, 23127), (278, 23133), (303, 23220), (314, 23256), (317, 23262), (321, 23271), (413, 23565), (442, 23619), (444, 23622), (452, 23643), (467, 23688), (497, 23793), (522, 23877), (534, 23958), (535, 23961), (568, 24084), (609, 24180), (628, 24228), (643, 24288), (657, 24321), (660, 24327), (676, 24399),

Gene: TuertoX_25 Start: 20505, Stop: 22028, Start Num: 189
Candidate Starts for TuertoX_25:
(Start: 189 @20505 has 19 MA's), (219, 20577), (226, 20589), (240, 20616), (242, 20622), (246, 20640), (295, 20760), (298, 20769), (323, 20835), (378, 20949), (389, 20991), (395, 21021), (401, 21051), (414, 21111), (420, 21117), (434, 21141), (444, 21165), (452, 21183), (455, 21195), (459, 21213), (466, 21228), (469, 21234), (483, 21285), (490, 21312), (508, 21363), (541, 21531), (579, 21669), (588, 21690), (589, 21693), (595, 21705), (610, 21744), (653, 21891), (665, 21951), (666, 21954),

Gene: Tycho_36 Start: 31930, Stop: 33651, Start Num: 107
Candidate Starts for Tycho_36:
(Start: 107 @31930 has 30 MA's), (162, 32053), (165, 32065), (192, 32131), (222, 32200), (239, 32236), (312, 32461), (327, 32500), (349, 32560), (371, 32605), (388, 32665), (418, 32800), (421, 32806), (441, 32848), (449, 32863), (458, 32899), (470, 32920), (497, 33019), (522, 33103), (529, 33136), (534, 33181), (535, 33184), (545, 33220), (556, 33256), (558, 33268), (574, 33304), (587, 33340), (612, 33394),

Gene: Underpass_20 Start: 19233, Stop: 21029, Start Num: 53
Candidate Starts for Underpass_20:
(Start: 51 @19230 has 5 MA's), (Start: 53 @19233 has 27 MA's), (125, 19386), (136, 19410), (Start: 176 @19506 has 1 MA's), (180, 19515), (201, 19557), (202, 19560), (212, 19590), (225, 19617), (262, 19710), (275, 19734), (300, 19818), (314, 19863), (329, 19899), (377, 20019), (383, 20037), (386, 20052), (390, 20070), (391, 20073), (404, 20151), (424, 20208), (426, 20211), (429, 20214), (461, 20298), (465, 20307), (474, 20334), (509, 20445), (511, 20448), (551, 20616), (576, 20691), (578, 20700), (590, 20727), (605, 20760), (611, 20775), (617, 20790), (620, 20796), (641, 20874), (642, 20877), (658, 20925), (680, 21012),

Gene: Upyo_24 Start: 19301, Stop: 20836, Start Num: 182
Candidate Starts for Upyo_24:
(171, 19277), (Start: 182 @19301 has 2 MA's), (232, 19412), (252, 19475), (289, 19574), (330, 19700), (334, 19706), (336, 19712), (345, 19730), (350, 19745), (353, 19751), (356, 19757), (383, 19826), (387, 19844), (398, 19898), (415, 19976), (434, 20003), (455, 20063), (459, 20081), (497, 20201), (508, 20234), (514, 20261), (535, 20369), (550, 20426), (554, 20441), (560, 20465), (644, 20699), (670, 20786),

Gene: Valary_36 Start: 29154, Stop: 31076, Start Num: 27
Candidate Starts for Valary_36:
(Start: 27 @29154 has 17 MA's), (63, 29277), (69, 29298), (98, 29346), (Start: 146 @29454 has 1 MA's), (157, 29475), (Start: 199 @29556 has 1 MA's), (208, 29592), (210, 29595), (244, 29673), (245, 29676), (247, 29682), (257, 29703), (270, 29733), (273, 29739), (317, 29874), (351, 29961), (359, 29970), (362, 29976), (364, 29982), (388, 30057), (395, 30090), (399, 30111), (416, 30183), (425, 30207), (434, 30219), (455, 30276), (500, 30426), (508, 30450), (545, 30618), (550, 30633), (581, 30729), (628, 30840), (638, 30876),

Gene: Vasanti_24 Start: 20059, Stop: 21591, Start Num: 189
Candidate Starts for Vasanti_24:
(Start: 189 @20059 has 19 MA's), (193, 20065), (219, 20131), (242, 20176), (257, 20215), (291, 20296), (295, 20311), (298, 20320), (323, 20386), (378, 20512), (395, 20584), (401, 20614), (420, 20680), (434, 20704), (444, 20728), (452, 20746), (455, 20758), (469, 20797), (483, 20848), (490, 20875), (541, 21094), (553, 21133), (554, 21136), (565, 21190), (568, 21196), (579, 21232), (588, 21253), (589, 21256), (595, 21268), (610, 21307), (626, 21346), (653, 21454), (666, 21517),

Gene: Vetrix_20 Start: 19234, Stop: 21030, Start Num: 53
Candidate Starts for Vetrix_20:
(Start: 51 @19231 has 5 MA's), (Start: 53 @19234 has 27 MA's), (125, 19387), (136, 19411), (Start: 176 @19507 has 1 MA's), (180, 19516), (202, 19561), (205, 19570), (212, 19591), (225, 19618), (262, 19711), (275, 19735), (300, 19819), (314, 19864), (377, 20020), (383, 20038), (386, 20053), (390, 20071), (391, 20074), (404, 20152), (424, 20209), (426, 20212), (429, 20215), (461, 20299), (465, 20308), (474, 20335), (509, 20446), (511, 20449), (551, 20617), (555, 20632), (576, 20692), (578, 20701), (590, 20728), (605, 20761), (611, 20776), (617, 20791), (620, 20797), (641, 20875), (642, 20878), (658, 20926), (680, 21013),

Gene: Vivi2_40 Start: 34410, Stop: 36332, Start Num: 29
Candidate Starts for Vivi2_40:
(Start: 29 @34410 has 23 MA's), (69, 34545), (77, 34554), (94, 34587), (104, 34611), (136, 34680), (148, 34710), (167, 34755), (245, 34947), (247, 34953), (257, 34974), (264, 34992), (270, 35004), (290, 35064), (308, 35118), (359, 35232), (388, 35319), (399, 35373), (413, 35439), (425, 35469), (434, 35481), (452, 35526), (455, 35538), (459, 35556), (471, 35583), (491, 35661), (500, 35688), (508, 35712), (534, 35835), (544, 35877), (571, 35961), (581, 35991), (599, 36018), (619, 36072), (631, 36102), (649, 36174), (652, 36183),

Gene: Waits_33 Start: 21713, Stop: 23425, Start Num: 49
Candidate Starts for Waits_33:
(Start: 49 @21713 has 23 MA's), (90, 21806), (144, 21923), (158, 21956), (172, 21995), (184, 22025), (249, 22151), (250, 22154), (298, 22292), (317, 22349), (358, 22394), (380, 22400), (394, 22466), (404, 22520), (450, 22634), (455, 22652), (460, 22670), (484, 22727), (531, 22904), (569, 23063), (581, 23099), (629, 23216), (641, 23267), (661, 23327), (667, 23363), (681, 23411),

Gene: Warrior24_33 Start: 21717, Stop: 23429, Start Num: 49
Candidate Starts for Warrior24_33:
(Start: 49 @21717 has 23 MA's), (90, 21810), (158, 21960), (172, 21999), (184, 22029), (249, 22155), (250, 22158), (298, 22296), (317, 22353), (358, 22398), (380, 22404), (394, 22470), (404, 22524), (450, 22638), (455, 22656), (460, 22674), (484, 22731), (531, 22908), (569, 23067), (581, 23103), (629, 23220), (641, 23271), (661, 23331), (667, 23367), (681, 23415),

Gene: WelcomeAyanna_25 Start: 22901, Stop: 24409, Start Num: 195
Candidate Starts for WelcomeAyanna_25:
(Start: 61 @22586 has 2 MA's), (109, 22694), (138, 22763), (Start: 140 @22766 has 1 MA's), (150, 22790), (153, 22796), (Start: 195 @22901 has 29 MA's), (227, 22979), (229, 22982), (260, 23072), (277, 23108), (278, 23111), (314, 23234), (317, 23240), (321, 23249), (400, 23480), (412, 23543), (413, 23546), (431, 23573), (442, 23600), (444, 23603), (473, 23684), (497, 23774), (535, 23942), (556, 24017), (559, 24032), (609, 24161), (638, 24245), (660, 24308), (676, 24380),

Gene: Whack_26 Start: 21816, Stop: 23381, Start Num: 176
Candidate Starts for Whack_26:
(Start: 176 @21816 has 1 MA's), (Start: 199 @21867 has 1 MA's), (202, 21876), (213, 21909), (220, 21924), (241, 21960), (280, 22065), (291, 22104), (296, 22122), (304, 22143), (386, 22362), (411, 22485), (433, 22521), (458, 22596), (471, 22626), (479, 22656), (493, 22707), (495, 22713), (499, 22725), (523, 22815), (537, 22899), (548, 22929), (577, 23025), (681, 23346),

Gene: Whiteclaw_25 Start: 20505, Stop: 22028, Start Num: 189
Candidate Starts for Whiteclaw_25:
(Start: 189 @20505 has 19 MA's), (219, 20577), (226, 20589), (240, 20616), (242, 20622), (246, 20640), (295, 20760), (298, 20769), (323, 20835), (378, 20949), (389, 20991), (395, 21021), (401, 21051), (414, 21111), (420, 21117), (434, 21141), (444, 21165), (452, 21183), (455, 21195), (459, 21213), (466, 21228), (469, 21234), (483, 21285), (490, 21312), (508, 21363), (541, 21531), (579, 21669), (588, 21690), (589, 21693), (595, 21705), (610, 21744), (653, 21891), (665, 21951), (666, 21954),

Gene: Whitney_30 Start: 23030, Stop: 24865, Start Num: 30
Candidate Starts for Whitney_30:
(Start: 30 @23030 has 23 MA's), (85, 23192), (Start: 101 @23222 has 1 MA's), (129, 23276), (136, 23291), (Start: 140 @23303 has 1 MA's), (141, 23306), (150, 23321), (Start: 152 @23324 has 2 MA's), (153, 23327), (Start: 199 @23417 has 1 MA's), (202, 23426), (203, 23429), (240, 23516), (245, 23537), (247, 23543), (257, 23564), (260, 23573), (270, 23594), (273, 23600), (319, 23702), (321, 23705),

(337, 23735), (343, 23747), (359, 23771), (388, 23846), (392, 23858), (399, 23900), (405, 23933), (413, 23966), (416, 23972), (425, 23996), (434, 24008), (455, 24065), (459, 24083), (500, 24215), (508, 24239), (512, 24257), (545, 24410), (550, 24425), (553, 24437), (554, 24440), (556, 24446), (571, 24491), (577, 24509), (581, 24521), (584, 24527), (592, 24539), (599, 24548), (619, 24602), (639, 24671), (649, 24704), (651, 24710), (665, 24773), (666, 24776), (671, 24794), (677, 24815), (679, 24824),

Gene: Wigglewiggle_20 Start: 19260, Stop: 21056, Start Num: 53
Candidate Starts for Wigglewiggle_20:
(Start: 51 @19257 has 5 MA's), (Start: 53 @19260 has 27 MA's), (125, 19413), (136, 19437), (Start: 176 @19533 has 1 MA's), (180, 19542), (201, 19584), (202, 19587), (212, 19617), (225, 19644), (262, 19737), (275, 19761), (300, 19845), (314, 19890), (329, 19926), (377, 20046), (383, 20064), (386, 20079), (390, 20097), (391, 20100), (404, 20178), (424, 20235), (426, 20238), (429, 20241), (461, 20325), (465, 20334), (474, 20361), (509, 20472), (511, 20475), (551, 20643), (576, 20718), (578, 20727), (590, 20754), (605, 20787), (611, 20802), (617, 20817), (620, 20823), (641, 20901), (642, 20904), (680, 21039),

Gene: Wilder_20 Start: 19233, Stop: 21029, Start Num: 53
Candidate Starts for Wilder_20:
(Start: 51 @19230 has 5 MA's), (Start: 53 @19233 has 27 MA's), (125, 19386), (136, 19410), (Start: 176 @19506 has 1 MA's), (180, 19515), (201, 19557), (202, 19560), (212, 19590), (225, 19617), (262, 19710), (275, 19734), (300, 19818), (314, 19863), (329, 19899), (377, 20019), (383, 20037), (386, 20052), (390, 20070), (391, 20073), (404, 20151), (424, 20208), (426, 20211), (429, 20214), (461, 20298), (465, 20307), (474, 20334), (509, 20445), (511, 20448), (551, 20616), (576, 20691), (578, 20700), (590, 20727), (605, 20760), (611, 20775), (617, 20790), (620, 20796), (641, 20874), (642, 20877), (658, 20925), (680, 21012),

Gene: WilliamBoone_56 Start: 34690, Stop: 36522, Start Num: 52
Candidate Starts for WilliamBoone_56:
(Start: 52 @34690 has 17 MA's), (92, 34774), (103, 34795), (132, 34849), (178, 34948), (192, 34984), (194, 34987), (202, 35005), (207, 35008), (249, 35089), (296, 35224), (375, 35428), (394, 35509), (410, 35590), (450, 35674), (468, 35728), (488, 35800), (546, 36049), (555, 36076), (566, 36133), (569, 36139), (624, 36274), (648, 36367), (667, 36436),

Gene: Winky_20 Start: 19225, Stop: 21024, Start Num: 51
Candidate Starts for Winky_20:
(Start: 51 @19225 has 5 MA's), (Start: 53 @19228 has 27 MA's), (125, 19381), (136, 19405), (Start: 176 @19501 has 1 MA's), (180, 19510), (202, 19555), (212, 19585), (225, 19612), (262, 19705), (275, 19729), (300, 19813), (314, 19858), (377, 20014), (383, 20032), (386, 20047), (390, 20065), (391, 20068), (404, 20146), (424, 20203), (429, 20209), (461, 20293), (465, 20302), (509, 20440), (511, 20443), (551, 20611), (576, 20686), (578, 20695), (590, 20722), (600, 20740), (605, 20755), (611, 20770), (617, 20785), (620, 20791), (641, 20869), (642, 20872), (658, 20920), (680, 21007),

Gene: Wizard_33 Start: 28352, Stop: 30274, Start Num: 27
Candidate Starts for Wizard_33:
(Start: 27 @28352 has 17 MA's), (63, 28475), (69, 28496), (98, 28544), (Start: 146 @28652 has 1 MA's), (157, 28673), (Start: 199 @28754 has 1 MA's), (208, 28790), (210, 28793), (244, 28871), (245, 28874), (247, 28880), (257, 28901), (270, 28931), (273, 28937), (317, 29072), (351, 29159), (359, 29168), (362, 29174), (364, 29180), (388, 29255), (395, 29288), (399, 29309), (416, 29381), (425, 29405), (434, 29417), (455, 29474), (500, 29624), (508, 29648), (545, 29816), (550, 29831), (581, 29927), (628, 30038), (638, 30074),

Gene: Yeet412_25 Start: 20498, Stop: 22021, Start Num: 189

Candidate Starts for Yeet412_25:
(Start: 189 @20498 has 19 MA's), (219, 20570), (226, 20582), (240, 20609), (246, 20633), (295, 20753), (298, 20762), (323, 20828), (378, 20942), (389, 20984), (395, 21014), (401, 21044), (420, 21110), (434, 21134), (444, 21158), (452, 21176), (455, 21188), (459, 21206), (466, 21221), (469, 21227), (483, 21278), (490, 21305), (508, 21356), (541, 21524), (547, 21545), (566, 21623), (579, 21662), (588, 21683), (589, 21686), (595, 21698), (610, 21737), (653, 21884), (665, 21944), (666, 21947),

Gene: Yeezy_28 Start: 22145, Stop: 23650, Start Num: 195
Candidate Starts for Yeezy_28:
(109, 21938), (138, 22007), (Start: 140 @22010 has 1 MA's), (150, 22034), (153, 22040), (Start: 195 @22145 has 29 MA's), (223, 22214), (229, 22226), (271, 22337), (276, 22349), (278, 22355), (303, 22442), (314, 22478), (317, 22484), (321, 22493), (413, 22787), (442, 22841), (444, 22844), (452, 22865), (467, 22910), (497, 23015), (522, 23099), (534, 23180), (535, 23183), (568, 23306), (609, 23402), (628, 23450), (635, 23465), (643, 23510), (657, 23543), (660, 23549), (676, 23621),

Gene: Yinzer_25 Start: 20505, Stop: 22028, Start Num: 189
Candidate Starts for Yinzer_25:
(Start: 189 @20505 has 19 MA's), (219, 20577), (226, 20589), (240, 20616), (242, 20622), (246, 20640), (295, 20760), (298, 20769), (323, 20835), (378, 20949), (389, 20991), (395, 21021), (401, 21051), (414, 21111), (420, 21117), (434, 21141), (444, 21165), (452, 21183), (455, 21195), (459, 21213), (466, 21228), (469, 21234), (483, 21285), (490, 21312), (508, 21363), (541, 21531), (579, 21669), (588, 21690), (589, 21693), (595, 21705), (610, 21744), (653, 21891), (665, 21951), (666, 21954),

Gene: YorkOnyx_37 Start: 32189, Stop: 33910, Start Num: 107
Candidate Starts for YorkOnyx_37:
(Start: 107 @32189 has 30 MA's), (162, 32312), (165, 32324), (192, 32390), (222, 32459), (239, 32495), (251, 32534), (312, 32720), (327, 32759), (349, 32819), (371, 32864), (388, 32924), (418, 33059), (421, 33065), (441, 33107), (449, 33122), (458, 33158), (470, 33179), (497, 33278), (522, 33362), (529, 33395), (534, 33440), (535, 33443), (556, 33515), (558, 33527), (574, 33563), (587, 33599), (612, 33653),

Gene: Yvonnetastic_53 Start: 36927, Stop: 38693, Start Num: 55
Candidate Starts for Yvonnetastic_53:
(Start: 55 @36927 has 2 MA's), (63, 36948), (108, 37044), (203, 37242), (207, 37260), (210, 37269), (226, 37302), (257, 37386), (293, 37485), (351, 37632), (368, 37653), (388, 37719), (393, 37737), (401, 37782), (455, 37926), (469, 37965), (500, 38076), (532, 38202), (554, 38298), (565, 38340), (568, 38346), (584, 38388), (586, 38391),

Gene: Zakai_20 Start: 19222, Stop: 21018, Start Num: 53
Candidate Starts for Zakai_20:
(Start: 51 @19219 has 5 MA's), (Start: 53 @19222 has 27 MA's), (125, 19375), (136, 19399), (Start: 176 @19495 has 1 MA's), (180, 19504), (202, 19549), (212, 19579), (225, 19606), (262, 19699), (275, 19723), (300, 19807), (314, 19852), (377, 20008), (383, 20026), (386, 20041), (390, 20059), (391, 20062), (404, 20140), (424, 20197), (426, 20200), (429, 20203), (461, 20287), (465, 20296), (474, 20323), (509, 20434), (511, 20437), (551, 20605), (576, 20680), (578, 20689), (590, 20716), (605, 20749), (611, 20764), (617, 20779), (620, 20785), (641, 20863), (642, 20866), (658, 20914), (680, 21001),

Gene: Zameen_28 Start: 22923, Stop: 24428, Start Num: 195
Candidate Starts for Zameen_28:

(Start: 195 @22923 has 29 MA's), (223, 22992), (229, 23004), (271, 23115), (276, 23127), (278, 23133), (303, 23220), (314, 23256), (317, 23262), (321, 23271), (413, 23565), (442, 23619), (444, 23622), (452, 23643), (467, 23688), (497, 23793), (522, 23877), (534, 23958), (535, 23961), (568, 24084), (609, 24180), (628, 24228), (643, 24288), (657, 24321), (660, 24327), (676, 24399),

Gene: ZhongYanYuan_19 Start: 19053, Stop: 20849, Start Num: 53
Candidate Starts for ZhongYanYuan_19:
(Start: 53 @19053 has 27 MA's), (110, 19173), (118, 19194), (125, 19206), (136, 19230), (148, 19257), (Start: 176 @19326 has 1 MA's), (180, 19335), (Start: 197 @19368 has 1 MA's), (202, 19380), (212, 19410), (225, 19437), (275, 19554), (288, 19602), (300, 19638), (314, 19683), (336, 19734), (377, 19839), (383, 19857), (390, 19890), (391, 19893), (396, 19932), (404, 19971), (426, 20031), (429, 20034), (461, 20118), (509, 20265), (528, 20343), (551, 20436), (555, 20451), (576, 20511), (578, 20520), (590, 20547), (611, 20595), (617, 20610), (641, 20694), (642, 20697), (658, 20745), (663, 20760), (680, 20832),

Gene: Zirinka_26 Start: 22938, Stop: 24443, Start Num: 195
Candidate Starts for Zirinka_26:
(Start: 61 @22623 has 2 MA's), (109, 22731), (138, 22800), (Start: 140 @22803 has 1 MA's), (150, 22827), (153, 22833), (Start: 195 @22938 has 29 MA's), (223, 23007), (229, 23019), (271, 23130), (274, 23136), (276, 23142), (278, 23148), (280, 23154), (303, 23235), (314, 23271), (317, 23277), (321, 23286), (413, 23580), (442, 23634), (444, 23637), (452, 23658), (467, 23703), (497, 23808), (522, 23892), (534, 23973), (535, 23976), (609, 24195), (628, 24243), (643, 24303), (657, 24336), (660, 24342), (676, 24414),