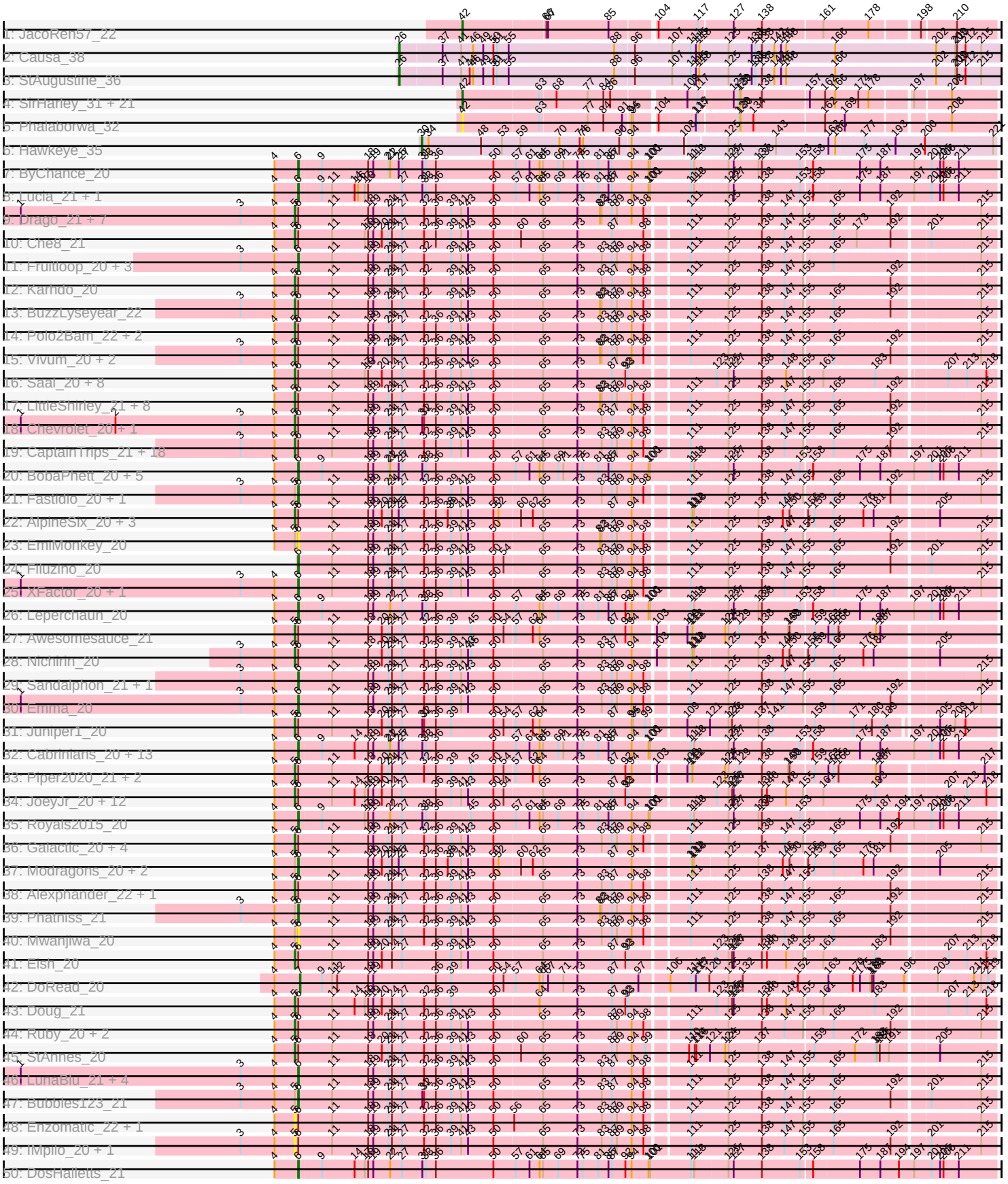
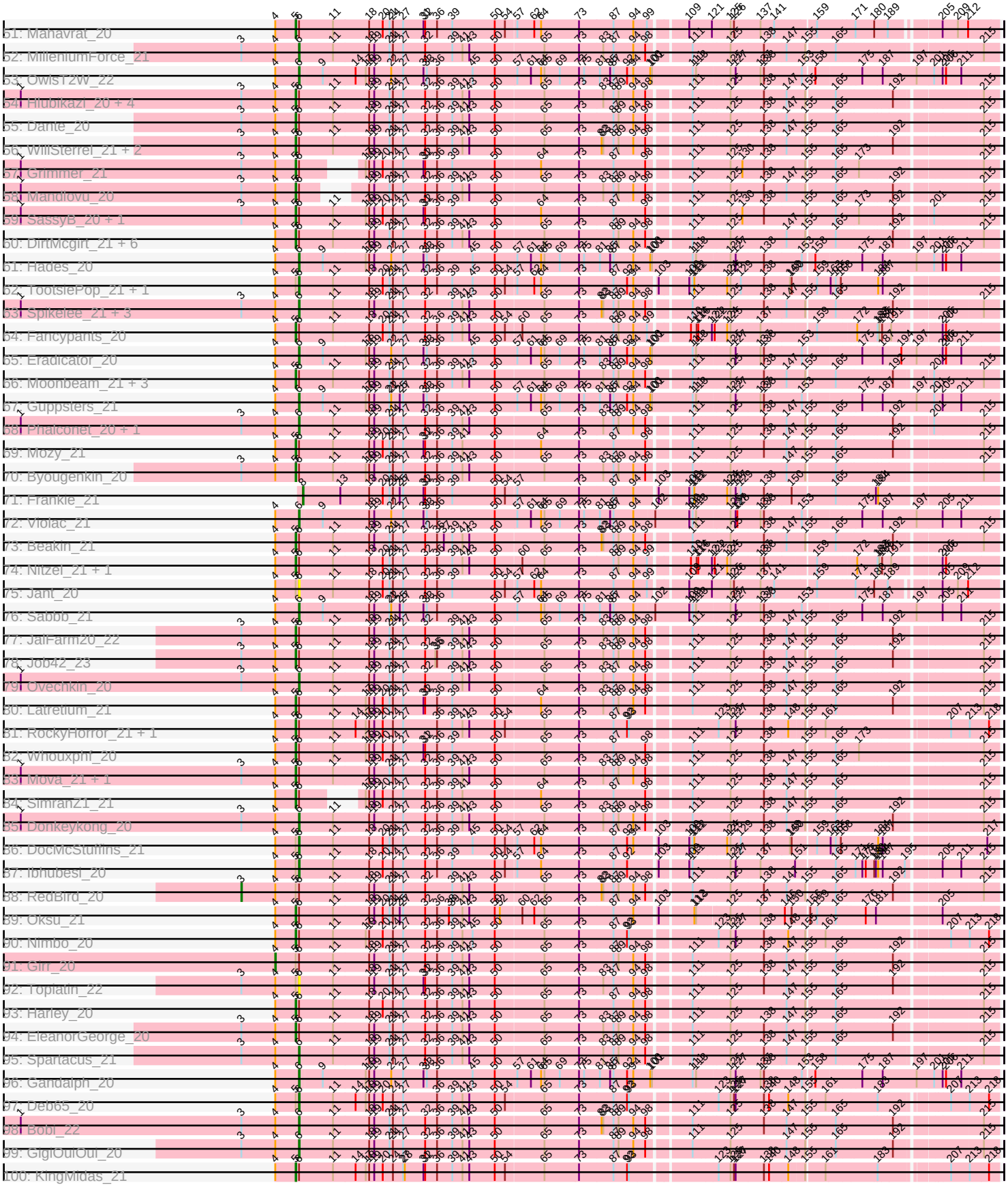
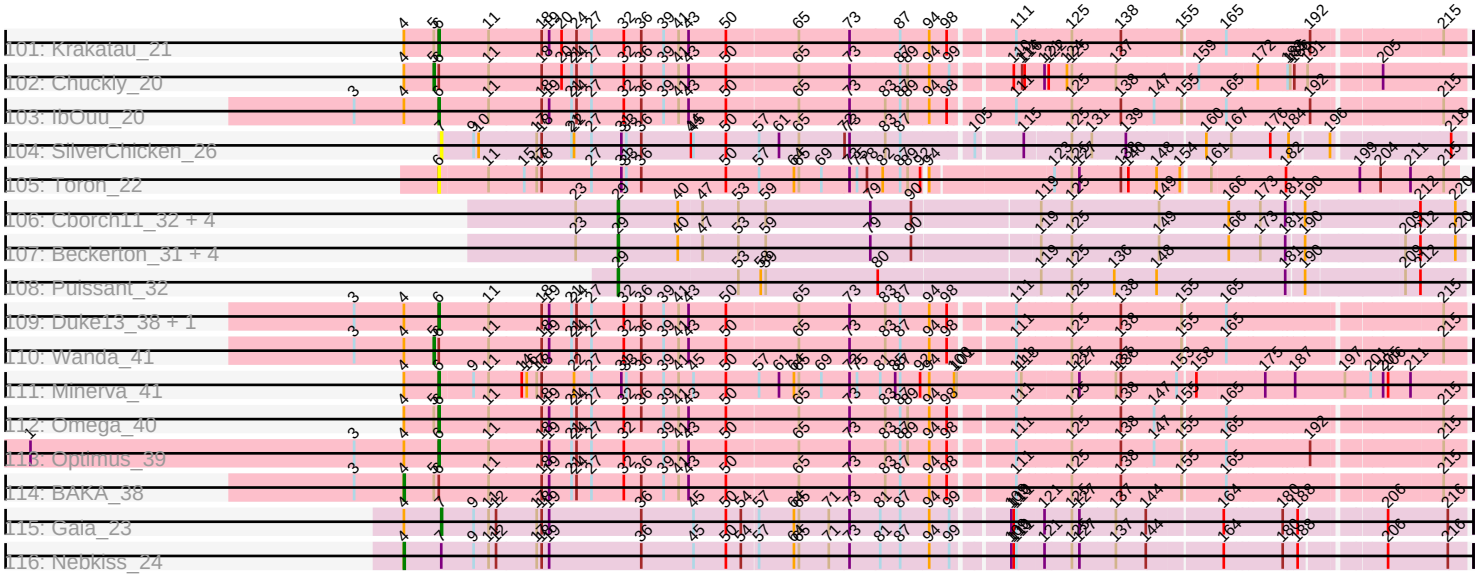
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1: JacoRen57_22
2: Causa_38
3: StAugustine_36
4: SirHarley_31 + 21
5: Phalaborwa_32
6: Hawkeye_35
7: ByChance_20
8: Lucia_21 + 1
9: Drago_21 + 7
10: Che8_21
11: Fruitloop_20 + 3
12: Kamdo_20
13: BuzzLyseyear_22
14: Polo2Bam_22 + 2
15: Vivum_20 + 2
16: Saal_20 + 8
17: LittleShirley_21 + 8
18: Chevrolet_20 + 1
19: CaptainTrips_21 + 18
20: BobaPhett_20 + 5
21: Fastidio_20 + 1
22: AlpineSix_20 + 3
23: EmiMonkey_20
24: Fiuzino_20
25: XFactor_20 + 1
26: Leperchaun_20
27: Awesomesauce_21
28: Nichinh_20
29: Sandalphon_21 + 1
30: Emma_20
31: Juniper1_20
32: Cabrinians_20 + 13
33: Piper2020_21 + 2
34: JoeyJr_20 + 12
35: Royals2015_20
36: Galactic_20 + 4
37: Modragons_20 + 2
38: Alexphander_22 + 1
39: Phatniss_21
40: Mwanjiwa_20
41: Elsh_20
42: DoRead_20
43: Doug_21
44: Ruby_20 + 2
45: StAnnes_20
46: LunaBlu_21 + 4
47: Bubbles123_21
48: Enzomatic_22 + 1
49: Implio_20 + 1
50: DosHalletts_21

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51: Manavrat_20
52: MillenniumForce_21
53: OwlsT2W_22
54: Hlubikazi_20 + 4
55: Dante_20
56: WillSterrel_21 + 2
57: Grimmer_21
58: Mandlovu_20
59: SassyB_20 + 1
60: DirtMcgirt_21 + 6
61: Hades_20
62: TootsiePop_21 + 1
63: Spikelee_21 + 3
64: Fancypants_20
65: Eradicator_20
66: Moonbeam_21 + 3
67: Guppsters_21
68: Phalconet_20 + 1
69: Mozy_21
70: Byougenkin_20
71: Frankie_21
72: Violac_21
73: Beakin_21
74: Nitzel_21 + 1
75: Jant_20
76: Sabbb_21
77: JalFarm20_22
78: Job42_23
79: Ovechkin_20
80: Latretium_21
81: RockyHorror_21 + 1
82: Whouxphi_20
83: Mova_21 + 1
84: Simran21_21
85: Donkeykong_20
86: DocMcStuffins_21
87: Ibhubesi_20
88: RedBird_20
89: Oksu_21
90: Nimbo_20
91: Glir_20
92: Toplatin_22
93: Harley_20
94: EleanorGeorge_20
95: Spartacus_21
96: Gandalph_20
97: Deb65_20
98: Bobi_22
99: GigiOuiOui_20
100: KingMidas_21

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101: Krakatau_21
102: Chuckly_20
103: IbOuu_20
104: SilverChicken_26
105: Toron_22
106: Cborch11_32 + 4
107: Beckerton_31 + 4
108: Pulssant_32
109: Duke13_38 + 1
110: Wanda_41
111: Minerva_41
112: Omega_40
113: Optimus_39
114: BAKA_38
115: Gala_23
116: Nebkiss_24

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 347193 Report

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

Pham number 347193 has 273 members, 18 are drafts.

Phages represented in each track:
• Track 1 : JacoRen57_22
• Track 2 : Causa_38
• Track 3 : StAugustine_36
• Track 4 : SirHarley_31, Penelope2018_32, Delton_32, Thoth_32, Nova_32, Erk16_32, PLot_33, Butterscotch_32, BigMama_30, Prager_32, Chill_33, KandZ_32, Troll4_32, Giuseppe_32, Adjutor_33, PBI1_32, Mopey_32, Visconti_32, WaldoWhy_33, SuperheroCarly_32, Gumball_31, Helpful_33
• Track 5 : Phalaborwa_32
• Track 6 : Hawkeye_35
• Track 7 : ByChance_20
• Track 8 : Lucia_21, RitaG_20
• Track 9 : Drago_21, Llij_20, Enby_21, Lorde_21, Rockne_20, VRedHorse_20, PMC_20, Hegedechwinu_21
• Track 10 : Che8_21
• Track 11 : Fruitloop_20, Beanstalk_21, Batiatus_20, Melissauren88_20
• Track 12 : Karhdo_20
• Track 13 : BuzzLyseyear_22
• Track 14 : Polo2Bam_22, Wee_21, DeadP_20
• Track 15 : Vivum_20, LittleE_41, Maravista_20
• Track 16 : Saal_20, Sparkdehlily_20, TDanisky_20, Florinda_20, Quico_21, DRBy19_20, Philus_20, Girafales_21, SwagPigglett_20
• Track 17 : LittleShirley_21, Slim_21, Peridot_21, Rialto_22, Starcevich_21, Emmaloid_21, PhlipPhlop_20, Totinger_21, Flathead_21
• Track 18 : Chevrolet_20, ArcusAngelus_20
• Track 19 : CaptainTrips_21, DillTech15_20, Corium_20, Blexus_20, Firehouse51_21, Juice456_22, Cornucopia_21, KingJulian_20, BodEinwohner17_20, MinionDave_21, QuickMath_21, Marker_21, Wachhund_20, Kimberlium_22, SG4_20, Tootsieroll_21, MulchExplorer_22, PatoPoderoso_20, Radiance_20
• Track 20 : BobaPhett_20, Gorge_20, Mattes_20, James_20, Nivrat_20, LilMoolah_20
• Track 21 : Fastidio_20, Doomslug_22
• Track 22 : AlpineSix_20, Jinglebell_19, Seabastian_20, OfUltron_20
• Track 23 : EmiMonkey_20
• Track 24 : Filuzino_20
• Track 25 : XFactor_20, Whatsapiecost_20
• Track 26 : Leperchaun_20
• Track 27 : Awesomesauce_21

• Track 28 : Nichirin_20
• Track 29 : Sandalphon_21, Minnie_21
• Track 30 : Emma_20
• Track 31 : Juniper1_20
• Track 32 : Cabrinians_20, OlympiaSaint_20, ShiLan_20, FreddyB_20, ShowerHandel_20, Zizzle_20, NormanBulbieJr_20, Burwell21_20, Jarcob_20, Yorick_20, Priscilla_20, Lizziana_20, Martik_20, Spoonbill_20
• Track 33 : Piper2020_21, ChickenDinner_21, Aloeri_21
• Track 34 : JoeyJr_20, Pacc40_20, Dorothy_20, Empress_21, OldBen_20, Scottish_21, Sassafras_20, Polka14_21, Inventum_20, Geralt_20, BlueCrab_20, PHappiness_20, Daenerys_20
• Track 35 : Royals2015_20
• Track 36 : Galactic_20, Plumbus_21, Cheesepuff_22, Boomer_21, SuperGrey_21
• Track 37 : Modragons_20, Llama_20, Ochi17_20
• Track 38 : Alexphander_22, DaWorst_22
• Track 39 : Phatniss_21
• Track 40 : Mwanjiwa_20
• Track 41 : Eish_20
• Track 42 : DoRead_20
• Track 43 : Doug_21
• Track 44 : Ruby_20, DotProduct_20, MisterCuddles_20
• Track 45 : StAnnes_20
• Track 46 : LunaBlu_21, Seagreen_21, Doomphist_20, Poenanya_20, Tchotchke_21
• Track 47 : Bubbles123_21
• Track 48 : Enzomatic_22, SeaLumen_21
• Track 49 : IMpilo_20, Medindi_20
• Track 50 : DosHalletts_21
• Track 51 : Mahavrat_20
• Track 52 : MilleniumForce_21
• Track 53 : OwlsT2W_22
• Track 54 : Hlubikazi_20, Mutaforma13_20, Brushbloom_21, Strokeseat_20, KristaRAM_21
• Track 55 : Dante_20
• Track 56 : WillSterrel_21, Rita_20, IrishSherpFalk_21
• Track 57 : Grimmer_21
• Track 58 : Mandlovu_20
• Track 59 : SassyB_20, PopTart_20
• Track 60 : DirtMcgirt_21, Phasih_21, GUmbie_20, SiSi_20, Veteran_20, Leozinho_21, Mantra_20
• Track 61 : Hades_20
• Track 62 : TootsiePop_21, Misha28_21
• Track 63 : Spikelee_21, Gonephishing_36, Ramsey_21, Stap_21
• Track 64 : Fancypants_20
• Track 65 : Eradicator_20
• Track 66 : Moonbeam_21, Taj_20, Hamulus_20, PhesterPhotato_20
• Track 67 : Guppsters_21
• Track 68 : Phalconet_20, DLane_20
• Track 69 : Mozy_21
• Track 70 : Byougenkin_20
• Track 71 : Frankie_21
• Track 72 : Violac_21
• Track 73 : Beakin_21
• Track 74 : Nitzel_21, Ardmore_20

• Track 75 : Jant_20
• Track 76 : Sabbb_21
• Track 77 : JalFarm20_22
• Track 78 : Job42_23
• Track 79 : Ovechkin_20
• Track 80 : Latretium_21
• Track 81 : RockyHorror_21, Zerg_20
• Track 82 : Whouxphf_20
• Track 83 : Mova_21, Aubs_20
• Track 84 : SimranZ1_21
• Track 85 : Donkeykong_20
• Track 86 : DocMcStuffins_21
• Track 87 : Ibhubesi_20
• Track 88 : RedBird_20
• Track 89 : Oksu_21
• Track 90 : Nimbo_20
• Track 91 : Girr_20
• Track 92 : Topiatin_22
• Track 93 : Harley_20
• Track 94 : EleanorGeorge_20
• Track 95 : Spartacus_21
• Track 96 : Gandalph_20
• Track 97 : Deb65_20
• Track 98 : Bobi_22
• Track 99 : GigiOuiOui_20
• Track 100 : KingMidas_21
• Track 101 : Krakatau_21
• Track 102 : Chuckly_20
• Track 103 : IbOuu_20
• Track 104 : SilverChicken_26
• Track 105 : Toron_22
• Track 106 : Cborch11_32, Konstantine_36, Megatron06_33, Nish23_32, Damien_31
• Track 107 : Beckerton_31, Oaker_31, Thumb_31, BobtimousPrime_33, Phreeze_31
• Track 108 : Puissant_32
• Track 109 : Duke13_38, DaddyRickover_20
• Track 110 : Wanda_41
• Track 111 : Minerva_41
• Track 112 : Omega_40
• Track 113 : Optimus_39
• Track 114 : BAKA_38
• Track 115 : Gaia_23
• Track 116 : Nebkiss_24

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

The start number called the most often in the published annotations is 5, it was called in 135 of the 255 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Alexphander_22, Aloeri_21, AlpineSix_20, ArcusAngelus_20, Ardmore_20, Aubs_20, Awesomesauce_21, Beakin_21, Blexus_20, BlueCrab_20, BodEinwohner17_20, Boomer_21, Brushbloom_21, BuzzLyseyear_22, Byougenkin_20, CaptainTrips_21, Che8_21, Cheesepuff_22, Chevrolet_20, ChickenDinner_21, Chuckly_20, Corium_20, Cornucopia_21, DRBy19_20, DaWorst_22, Daenerys_20, Dante_20, DeadP_20, DillTech15_20, DirtMcgirt_21, Dorothy_20, DotProduct_20, Doug_21, Drago_21, Eish_20, EleanorGeorge_20, Emmaloid_21, Empress_21, Enby_21, Enzomatic_22, Fancypants_20, Firehouse51_21, Flathead_21, Florinda_20, GUmbie_20, Galactic_20, Geralt_20, Girafales_21, Grimmer_21, Hamulus_20, Harley_20, Hegedechwinu_21, Hlubikazi_20, IMpilo_20, Inventum_20, IrishSherpFalk_21, JalFarm20_22, Jinglebell_19, Job42_23, JoeyJr_20, Juice456_22, Juniper1_20, Karhdo_20, Kimberlium_22, KingJulian_20, KingMidas_21, KristaRAM_21, Latretium_21, Leozinho_21, LittleE_41, LittleShirley_21, Llij_20, Lorde_21, Mahavrat_20, Mandlovu_20, Mantra_20, Maravista_20, Marker_21, Medindi_20, MinionDave_21, MisterCuddles_20, Moonbeam_21, Mova_21, Mozy_21, MulchExplorer_22, Mutaforma13_20, Nichirin_20, Nimbo_20, Nitzel_21, OfUltron_20, Oksu_21, OldBen_20, PHappiness_20, PMC_20, Pacc40_20, PatoPoderoso_20, Peridot_21, Phasih_21, PhesterPhotato_20, Philus_20, PhlipPhlop_20, Piper2020_21, Plumbus_21, Polka14_21, Polo2Bam_22, PopTart_20, QuickMath_21, Quico_21, Radiance_20, Rialto_22, Rita_20, Rockne_20, RockyHorror_21, Ruby_20, SG4_20, Saal_20, Sassafras_20, SassyB_20, Scottish_21, SeaLumen_21, Seabastian_20, SiSi_20, SimranZ1_21, Slim_21, Sparkdehlily_20, StAnnes_20, Starcevich_21, Strokeseat_20, SuperGrey_21, SwagPigglett_20, TDanisky_20, Taj_20, Tootsieroll_21, Totinger_21, VRedHorse_20, Veteran_20, Vivum_20, Wachhund_20, Wanda_41, Wee_21, Whouxphf_20, WillSterrel_21, Zerg_20,

Genes that have the "Most Annotated" start but do not call it:
• BAKA_38, Bubbles123_21, Deb65_20, DocMcStuffins_21, Doomslug_22, EmiMonkey_20, Fastidio_20, Girr_20, Ibhubesi_20, Jant_20, Krakatau_21, Llama_20, Misha28_21, Modragons_20, Mwanjiwa_20, Ochi17_20, Omega_40, Phatniss_21, RedBird_20, TootsiePop_21, Topiatin_22,

Genes that do not have the "Most Annotated" start:
• Adjutor_33, Batiatus_20, Beanstalk_21, Beckerton_31, BigMama_30, BobaPhett_20, Bobi_22, BobtimousPrime_33, Burwell21_20, Butterscotch_32, ByChance_20, Cabrinians_20, Causa_38, Cborch11_32, Chill_33, DLane_20, DaddyRickover_20, Damien_31, Delton_32, DoRead_20, Donkeykong_20, Doomphist_20, DosHalletts_21, Duke13_38, Emma_20, Eradicator_20, Erk16_32, Filuzino_20, Frankie_21, FreddyB_20, Fruitloop_20, Gaia_23, Gandalph_20, GigiOuiOui_20, Giuseppe_32, Gonephishing_36, Gorge_20, Gumball_31, Guppsters_21, Hades_20, Hawkeye_35, Helpful_33, IbOuu_20, JacoRen57_22, James_20, Jarcob_20, KandZ_32, Konstantine_36, Leperchaun_20, LilMoolah_20, Lizziana_20, Lucia_21, LunaBlu_21, Martik_20, Mattes_20, Megatron06_33, Melissauren88_20, MilleniumForce_21, Minerva_41, Minnie_21, Mopey_32, Nebkiss_24, Nish23_32, Nivrat_20, NormanBulbieJr_20, Nova_32, Oaker_31, OlympiaSaint_20, Optimus_39, Ovechkin_20, OwlsT2W_22, PBI1_32, PLot_33, Penelope2018_32, Phalaborwa_32, Phalconet_20, Phreeze_31, Poenanya_20, Prager_32, Priscilla_20, Puissant_32, Ramsey_21, RitaG_20, Royals2015_20, Sabbb_21, Sandalphon_21, Seagreen_21, ShiLan_20, ShowerHandel_20, SilverChicken_26, SirHarley_31, Spartacus_21, Spikelee_21, Spoonbill_20, StAugustine_36, Stap_21, SuperheroCarly_32, Tchotchke_21, Thoth_32, Thumb_31, Toron_22, Troll4_32, Violac_21, Visconti_32, WaldoWhy_33, Whatsapiecost_20,

XFactor_20, Yorick_20, Zizzle_20,

Summary by start number:

Start 3:
• Found in 93 of 273 (34.1%) of genes in pham
• Manual Annotations of this start: 1 of 255
• Called 1.1% of time when present
• Phage (with cluster) where this start called: RedBird_20 (F1),

Start 4:
• Found in 231 of 273 (84.6%) of genes in pham
• Manual Annotations of this start: 3 of 255
• Called 1.3% of time when present
• Phage (with cluster) where this start called: BAKA_38 (J), Girr_20 (F1), Nebkiss_24 (X),

Start 5:
• Found in 164 of 273 (60.1%) of genes in pham
• Manual Annotations of this start: 135 of 255
• Called 87.2% of time when present
• Phage (with cluster) where this start called: Alexphander_22 (F1), Aloeri_21 (F1), AlpineSix_20 (F1), ArcusAngelus_20 (F1), Ardmore_20 (F1), Aubs_20 (F1), Awesomesauce_21 (F1), Beakin_21 (F1), Blexus_20 (F1), BlueCrab_20 (F1), BodEinwohner17_20 (F1), Boomer_21 (F1), Brushbloom_21 (F1), BuzzLyseyear_22 (F1), Byougenkin_20 (F1), CaptainTrips_21 (F1), Che8_21 (F1), Cheesepuff_22 (F1), Chevrolet_20 (F1), ChickenDinner_21 (F1), Chuckly_20 (F1), Corium_20 (F1), Cornucopia_21 (F1), DRBy19_20 (F1), DaWorst_22 (F1), Daenerys_20 (F1), Dante_20 (F1), DeadP_20 (F1), DillTech15_20 (F1), DirtMcgirt_21 (F1), Dorothy_20 (F1), DotProduct_20 (F1), Doug_21 (F1), Drago_21 (F1), Eish_20 (F1), EleanorGeorge_20 (F1), Emmaloid_21 (F1), Empress_21 (F1), Enby_21 (F1), Enzomatic_22 (F1), Fancypants_20 (F1), Firehouse51_21 (F1), Flathead_21 (F1), Florinda_20 (F1), GUmbie_20 (F1), Galactic_20 (F1), Geralt_20 (F1), Girafales_21 (F1), Grimmer_21 (F1), Hamulus_20 (F1), Harley_20 (F1), Hegedechwinu_21 (F1), Hlubikazi_20 (F1), IMpilo_20 (F1), Inventum_20 (F1), IrishSherpFalk_21 (F1), JalFarm20_22 (F1), Jinglebell_19 (F1), Job42_23 (F1), JoeyJr_20 (F1), Juice456_22 (F1), Juniper1_20 (F1), Karhdo_20 (F1), Kimberlium_22 (F1), KingJulian_20 (F1), KingMidas_21 (F1), KristaRAM_21 (F1), Latretium_21 (F1), Leozinho_21 (F1), LittleE_41 (J), LittleShirley_21 (F1), Llij_20 (F1), Lorde_21 (F1), Mahavrat_20 (F1), Mandlovu_20 (F1), Mantra_20 (F1), Maravista_20 (F1), Marker_21 (F1), Medindi_20 (F1), MinionDave_21 (F1), MisterCuddles_20 (F1), Moonbeam_21 (F1), Mova_21 (F1), Mozy_21 (F1), MulchExplorer_22 (F1), Mutaforma13_20 (F1), Nichirin_20 (F1), Nimbo_20 (F1), Nitzel_21 (F1), OfUltron_20 (F1), Oksu_21 (F1), OldBen_20 (F1), PHappiness_20 (F1), PMC_20 (F1), Pacc40_20 (F1), PatoPoderoso_20 (F1), Peridot_21 (F1), Phasih_21 (F1), PhesterPhotato_20 (F1), Philus_20 (F1), PhlipPhlop_20 (F1), Piper2020_21 (F1), Plumbus_21 (F1), Polka14_21 (F1), Polo2Bam_22 (F1), PopTart_20 (F1), QuickMath_21 (F1), Quico_21 (F1), Radiance_20 (F1), Rialto_22 (F1), Rita_20 (F1), Rockne_20 (F1), RockyHorror_21 (F1), Ruby_20 (F1), SG4_20 (F1), Saal_20 (F1), Sassafras_20 (F1), SassyB_20 (F1), Scottish_21 (F1), SeaLumen_21 (F1), Seabastian_20 (F1), SiSi_20 (F1), SimranZ1_21 (F1), Slim_21 (F1), Sparkdehlily_20 (F1), StAnnes_20 (F1), Starcevich_21 (F1), Strokeseat_20 (F1), SuperGrey_21 (F1), SwagPigglett_20 (F1), TDanisky_20 (F1), Taj_20 (F1), Tootsieroll_21 (F1), Totinger_21 (F1), VRedHorse_20

(F1), Veteran_20 (F1), Vivum_20 (F1), Wachhund_20 (F1), Wanda_41 (J), Wee_21 (F1), Whouxphf_20 (F1), WillSterrel_21 (F1), Zerg_20 (F1),

Start 6:
• Found in 230 of 273 (84.2%) of genes in pham
• Manual Annotations of this start: 77 of 255
• Called 36.5% of time when present
• Phage (with cluster) where this start called: Batiatus_20 (F1), Beanstalk_21 (F1), BobaPhett_20 (F1), Bobi_22 (F1), Bubbles123_21 (F1), Burwell21_20 (F1), ByChance_20 (F1), Cabrinians_20 (F1), DLane_20 (F1), DaddyRickover_20 (F1), Deb65_20 (F1), DocMcStuffins_21 (F1), Donkeykong_20 (F1), Doomphist_20 (F1), Doomslug_22 (F), DosHalletts_21 (F1), Duke13_38 (J), EmiMonkey_20 (F1), Emma_20 (F1), Eradicator_20 (F1), Fastidio_20 (F1), Filuzino_20 (F1), FreddyB_20 (F1), Fruitloop_20 (F1), Gandalph_20 (F1), GigiOuiOui_20 (F1), Gonephishing_36 (J), Gorge_20 (F1), Guppsters_21 (F1), Hades_20 (F1), IbOuu_20 (F1), Ibhubesi_20 (F1), James_20 (F1), Jant_20 (F1), Jarcob_20 (F1), Krakatau_21 (F1), Leperchaun_20 (F1), LilMoolah_20 (F1), Lizziana_20 (F1), Llama_20 (F1), Lucia_21 (F1), LunaBlu_21 (F1), Martik_20 (F1), Mattes_20 (F1), Melissauren88_20 (F1), MilleniumForce_21 (F1), Minerva_41 (J), Minnie_21 (F1), Misha28_21 (F1), Modragons_20 (F1), Mwanjiwa_20 (F1), Nivrat_20 (F1), NormanBulbieJr_20 (F1), Ochi17_20 (F1), OlympiaSaint_20 (F1), Omega_40 (J), Optimus_39 (J), Ovechkin_20 (F1), OwlsT2W_22 (F1), Phalconet_20 (F1), Phatniss_21 (F1), Poenanya_20 (F1), Priscilla_20 (F1), Ramsey_21 (F1), RitaG_20 (F1), Royals2015_20 (F1), Sabbb_21 (F1), Sandalphon_21 (F1), Seagreen_21 (F1), ShiLan_20 (F1), ShowerHandel_20 (F1), Spartacus_21 (F1), Spikelee_21 (F1), Spoonbill_20 (F1), Stap_21 (F1), Tchotchke_21 (F1), TootsiePop_21 (F1), Topiatin_22 (F1), Toron_22 (F6), Violac_21 (F1), Whatsapiecost_20 (F1), XFactor_20 (F1), Yorick_20 (F1), Zizzle_20 (F1),

Start 7:
• Found in 4 of 273 (1.5%) of genes in pham
• Manual Annotations of this start: 2 of 255
• Called 75.0% of time when present
• Phage (with cluster) where this start called: DoRead_20 (F1), Gaia_23 (X), SilverChicken_26 (F2),

Start 8:
• Found in 1 of 273 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Frankie_21 (F1),

Start 26:
• Found in 2 of 273 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Causa_38 (AI), StAugustine_36 (AI),

Start 29:
• Found in 11 of 273 (4.0%) of genes in pham
• Manual Annotations of this start: 10 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beckerton_31 (H1), BobtimousPrime_33 (H1), Cborch11_32 (H1), Damien_31 (H1), Konstantine_36 (H1), Megatron06_33

(H1), Nish23_32 (H1), Oaker_31 (H1), Phreeze_31 (H1), Puissant_32 (H1), Thumb_31 (H1),

Start 30:
• Found in 1 of 273 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hawkeye_35 (D2),

Start 42:
• Found in 24 of 273 (8.8%) of genes in pham
• Manual Annotations of this start: 23 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adjutor_33 (D1), BigMama_30 (D1), Butterscotch_32 (D1), Chill_33 (D1), Delton_32 (D1), Erk16_32 (D1), Giuseppe_32 (D1), Gumball_31 (D1), Helpful_33 (D1), JacoRen57_22 (AB), KandZ_32 (D1), Mopey_32 (D1), Nova_32 (D1), PBI1_32 (D1), PLot_33 (D1), Penelope2018_32 (D1), Phalaborwa_32 (D1), Prager_32 (D1), SirHarley_31 (D1), SuperheroCarly_32 (D1), Thoth_32 (D1), Troll4_32 (D1), Visconti_32 (D1), WaldoWhy_33 (D1),

Summary by clusters:

There are 11 clusters represented in this pham: F1, F2, J, F6, F, AI, H1, AB, X, D2, D1,

Info for manual annotations of cluster AB:
•Start number 42 was manually annotated 1 time for cluster AB.

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

Info for manual annotations of cluster D1:
•Start number 42 was manually annotated 22 times for cluster D1.

Info for manual annotations of cluster D2:
•Start number 30 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster F1:
•Start number 3 was manually annotated 1 time for cluster F1.
•Start number 4 was manually annotated 1 time for cluster F1.
•Start number 5 was manually annotated 133 times for cluster F1.
•Start number 6 was manually annotated 73 times for cluster F1.
•Start number 7 was manually annotated 1 time for cluster F1.
•Start number 8 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster H1:
•Start number 29 was manually annotated 10 times for cluster H1.

Info for manual annotations of cluster J:
•Start number 4 was manually annotated 1 time for cluster J.

•Start number 5 was manually annotated 2 times for cluster J.
•Start number 6 was manually annotated 4 times for cluster J.

Info for manual annotations of cluster X:
•Start number 4 was manually annotated 1 time for cluster X.
•Start number 7 was manually annotated 1 time for cluster X.

Gene Information:

Gene: Adjutor_33 Start: 28574, Stop: 29440, Start Num: 42
Candidate Starts for Adjutor_33:
(Start: 42 @28574 has 23 MA's), (63, 28706), (68, 28733), (77, 28787), (84, 28814), (86, 28826), (109, 28943), (117, 28961), (127, 29018), (129, 29027), (130, 29030), (138, 29066), (157, 29144), (162, 29171), (166, 29189), (174, 29225), (178, 29243), (197, 29306), (208, 29366),

Gene: Alexphander_22 Start: 22340, Stop: 23506, Start Num: 5
Candidate Starts for Alexphander_22:
(Start: 4 @22304 has 3 MA's), (Start: 5 @22340 has 135 MA's), (Start: 6 @22346 has 77 MA's), (11, 22406), (18, 22469), (19, 22478), (21, 22505), (24, 22511), (27, 22529), (32, 22568), (36, 22589), (39, 22616), (41, 22634), (43, 22646), (50, 22691), (65, 22775), (73, 22835), (83, 22877), (87, 22895), (94, 22928), (98, 22949), (111, 23015), (125, 23075), (138, 23132), (147, 23171), (155, 23204), (192, 23342), (215, 23480),

Gene: Aloeri_21 Start: 21670, Stop: 22848, Start Num: 5
Candidate Starts for Aloeri_21:
(Start: 4 @21634 has 3 MA's), (Start: 5 @21670 has 135 MA's), (Start: 6 @21676 has 77 MA's), (11, 21736), (18, 21799), (20, 21823), (21, 21835), (24, 21841), (27, 21859), (32, 21898), (36, 21919), (39, 21946), (45, 21982), (50, 22021), (54, 22039), (57, 22057), (62, 22087), (64, 22099), (73, 22165), (87, 22225), (92, 22249), (94, 22258), (103, 22294), (109, 22339), (111, 22345), (112, 22348), (124, 22402), (125, 22408), (129, 22426), (138, 22465), (149, 22510), (150, 22513), (159, 22552), (163, 22576), (165, 22585), (168, 22594), (184, 22654), (187, 22660), (217, 22828),

Gene: AlpineSix_20 Start: 22045, Stop: 23220, Start Num: 5
Candidate Starts for AlpineSix_20:
(Start: 4 @22009 has 3 MA's), (Start: 5 @22045 has 135 MA's), (Start: 6 @22051 has 77 MA's), (11, 22111), (18, 22174), (19, 22183), (20, 22198), (21, 22210), (24, 22216), (25, 22228), (27, 22234), (32, 22273), (36, 22294), (38, 22315), (39, 22321), (41, 22339), (43, 22351), (50, 22396), (52, 22405), (60, 22441), (62, 22462), (65, 22480), (73, 22540), (87, 22600), (94, 22633), (111, 22720), (112, 22723), (113, 22726), (125, 22780), (137, 22831), (146, 22873), (150, 22885), (156, 22912), (159, 22924), (165, 22957), (176, 23005), (181, 23023), (205, 23122),

Gene: ArcusAngelus_20 Start: 21855, Stop: 23021, Start Num: 5
Candidate Starts for ArcusAngelus_20:
(1, 21369), (2, 21537), (Start: 3 @21759 has 1 MA's), (Start: 4 @21819 has 3 MA's), (Start: 5 @21855 has 135 MA's), (Start: 6 @21861 has 77 MA's), (11, 21921), (18, 21984), (19, 21993), (21, 22020), (24, 22026), (27, 22044), (31, 22080), (32, 22083), (36, 22104), (39, 22131), (41, 22149), (43, 22161), (50, 22206), (65, 22290), (73, 22350), (83, 22392), (87, 22410), (94, 22443), (98, 22464), (111, 22530), (125, 22590), (138, 22647), (147, 22686), (155, 22719), (165, 22767), (192, 22857), (215, 22995),

Gene: Ardmore_20 Start: 21858, Stop: 23024, Start Num: 5
Candidate Starts for Ardmore_20:

(Start: 4 @21822 has 3 MA's), (Start: 5 @21858 has 135 MA's), (Start: 6 @21864 has 77 MA's), (11, 21924), (18, 21987), (20, 22011), (21, 22023), (24, 22029), (27, 22047), (32, 22086), (36, 22107), (39, 22134), (41, 22152), (43, 22164), (50, 22209), (60, 22254), (65, 22293), (73, 22353), (87, 22413), (89, 22422), (94, 22446), (99, 22470), (110, 22530), (114, 22539), (116, 22542), (121, 22566), (122, 22569), (124, 22590), (125, 22596), (137, 22647), (138, 22653), (159, 22737), (172, 22800), (183, 22833), (185, 22836), (186, 22839), (191, 22854), (205, 22926), (206, 22932),

Gene: Aubs_20 Start: 21974, Stop: 23140, Start Num: 5
Candidate Starts for Aubs_20:
(1, 21488), (Start: 3 @21878 has 1 MA's), (Start: 4 @21938 has 3 MA's), (Start: 5 @21974 has 135 MA's), (Start: 6 @21980 has 77 MA's), (11, 22040), (18, 22103), (19, 22112), (21, 22139), (24, 22145), (27, 22163), (32, 22202), (36, 22223), (39, 22250), (41, 22268), (43, 22280), (50, 22325), (65, 22409), (73, 22469), (83, 22511), (87, 22529), (89, 22538), (94, 22562), (98, 22583), (111, 22649), (125, 22709), (138, 22766), (147, 22805), (155, 22838), (165, 22886), (215, 23114),

Gene: Awesomesauce_21 Start: 21667, Stop: 22845, Start Num: 5
Candidate Starts for Awesomesauce_21:
(Start: 4 @21631 has 3 MA's), (Start: 5 @21667 has 135 MA's), (Start: 6 @21673 has 77 MA's), (11, 21733), (18, 21796), (20, 21820), (21, 21832), (24, 21838), (27, 21856), (32, 21895), (36, 21916), (39, 21943), (45, 21979), (50, 22018), (54, 22036), (57, 22054), (62, 22084), (64, 22096), (73, 22162), (87, 22222), (92, 22246), (94, 22255), (103, 22291), (109, 22336), (111, 22342), (112, 22345), (124, 22399), (125, 22405), (129, 22423), (138, 22462), (149, 22507), (150, 22510), (159, 22549), (163, 22573), (165, 22582), (168, 22591), (184, 22651), (187, 22657),

Gene: BAKA_38 Start: 34291, Stop: 35493, Start Num: 4
Candidate Starts for BAKA_38:
(Start: 3 @34231 has 1 MA's), (Start: 4 @34291 has 3 MA's), (Start: 5 @34327 has 135 MA's), (Start: 6 @34333 has 77 MA's), (11, 34393), (18, 34456), (19, 34465), (21, 34492), (24, 34498), (27, 34516), (32, 34555), (36, 34576), (39, 34603), (41, 34621), (43, 34633), (50, 34678), (65, 34762), (73, 34822), (83, 34864), (87, 34882), (94, 34915), (98, 34936), (111, 35002), (125, 35062), (138, 35119), (155, 35191), (165, 35239), (215, 35467),

Gene: Batiatus_20 Start: 21871, Stop: 23031, Start Num: 6
Candidate Starts for Batiatus_20:
(Start: 3 @21769 has 1 MA's), (Start: 4 @21829 has 3 MA's), (Start: 6 @21871 has 77 MA's), (11, 21931), (18, 21994), (19, 22003), (21, 22030), (24, 22036), (27, 22054), (32, 22093), (39, 22141), (41, 22159), (43, 22171), (50, 22216), (65, 22300), (73, 22360), (83, 22402), (87, 22420), (89, 22429), (94, 22453), (98, 22474), (111, 22540), (125, 22600), (138, 22657), (147, 22696), (155, 22729), (165, 22777), (215, 23005),

Gene: Beakin_21 Start: 21666, Stop: 22832, Start Num: 5
Candidate Starts for Beakin_21:
(Start: 4 @21630 has 3 MA's), (Start: 5 @21666 has 135 MA's), (Start: 6 @21672 has 77 MA's), (11, 21732), (18, 21795), (19, 21804), (21, 21831), (24, 21837), (27, 21855), (32, 21894), (36, 21915), (37, 21927), (39, 21942), (41, 21960), (43, 21972), (50, 22017), (65, 22101), (73, 22161), (82, 22200), (83, 22203), (87, 22221), (89, 22230), (94, 22254), (98, 22275), (111, 22341), (125, 22401), (138, 22458), (147, 22497), (155, 22530), (165, 22578), (192, 22668), (215, 22806),

Gene: Beanstalk_21 Start: 21823, Stop: 22983, Start Num: 6
Candidate Starts for Beanstalk_21:
(Start: 3 @21721 has 1 MA's), (Start: 4 @21781 has 3 MA's), (Start: 6 @21823 has 77 MA's), (11, 21883), (18, 21946), (19, 21955), (21, 21982), (24, 21988), (27, 22006), (32, 22045), (39, 22093), (41, 22111), (43, 22123), (50, 22168), (65, 22252), (73, 22312), (83, 22354), (87, 22372), (89, 22381), (94,

22405), (98, 22426), (111, 22492), (125, 22552), (138, 22609), (147, 22648), (155, 22681), (165, 22729), (215, 22957),

Gene: Beckerton_31 Start: 30267, Stop: 31232, Start Num: 29
Candidate Starts for Beckerton_31:
(23, 30216), (Start: 29 @30267 has 10 MA's), (40, 30339), (47, 30366), (53, 30408), (59, 30441), (79, 30567), (90, 30615), (119, 30756), (125, 30792), (149, 30894), (166, 30975), (173, 31008), (181, 31035), (190, 31053), (209, 31164), (212, 31182), (220, 31221),

Gene: BigMama_30 Start: 28650, Stop: 29516, Start Num: 42
Candidate Starts for BigMama_30:
(Start: 42 @28650 has 23 MA's), (63, 28782), (68, 28809), (77, 28863), (84, 28890), (86, 28902), (109, 29019), (117, 29037), (127, 29094), (129, 29103), (130, 29106), (138, 29142), (157, 29220), (162, 29247), (166, 29265), (174, 29301), (178, 29319), (197, 29382), (208, 29442),

Gene: Blexus_20 Start: 22003, Stop: 23169, Start Num: 5
Candidate Starts for Blexus_20:
(Start: 3 @21907 has 1 MA's), (Start: 4 @21967 has 3 MA's), (Start: 5 @22003 has 135 MA's), (Start: 6 @22009 has 77 MA's), (11, 22069), (18, 22132), (19, 22141), (21, 22168), (24, 22174), (27, 22192), (32, 22231), (36, 22252), (39, 22279), (41, 22297), (43, 22309), (50, 22354), (65, 22438), (73, 22498), (83, 22540), (87, 22558), (89, 22567), (94, 22591), (98, 22612), (111, 22678), (125, 22738), (138, 22795), (147, 22834), (155, 22867), (165, 22915), (192, 23005), (215, 23143),

Gene: BlueCrab_20 Start: 21988, Stop: 23151, Start Num: 5
Candidate Starts for BlueCrab_20:
(Start: 4 @21952 has 3 MA's), (Start: 5 @21988 has 135 MA's), (Start: 6 @21994 has 77 MA's), (11, 22054), (14, 22093), (17, 22111), (18, 22117), (19, 22126), (20, 22141), (24, 22159), (27, 22177), (36, 22237), (39, 22264), (41, 22282), (43, 22294), (50, 22339), (54, 22357), (65, 22423), (73, 22483), (87, 22543), (92, 22567), (93, 22570), (123, 22705), (125, 22726), (126, 22732), (127, 22735), (138, 22783), (140, 22792), (148, 22825), (155, 22852), (161, 22882), (183, 22966), (207, 23068), (213, 23101), (218, 23134),

Gene: BobaPhett_20 Start: 21808, Stop: 23010, Start Num: 6
Candidate Starts for BobaPhett_20:
(Start: 4 @21766 has 3 MA's), (Start: 6 @21808 has 77 MA's), (9, 21847), (18, 21928), (19, 21937), (21, 21964), (22, 21967), (25, 21982), (27, 21988), (31, 22024), (33, 22030), (36, 22048), (50, 22150), (57, 22189), (61, 22213), (64, 22231), (65, 22237), (69, 22264), (71, 22273), (73, 22297), (75, 22306), (81, 22333), (85, 22351), (87, 22357), (94, 22390), (100, 22420), (101, 22423), (111, 22495), (113, 22501), (125, 22558), (127, 22567), (138, 22615), (153, 22681), (158, 22699), (175, 22774), (187, 22807), (197, 22867), (201, 22897), (205, 22912), (206, 22918), (211, 22945),

Gene: Bobi_22 Start: 22410, Stop: 23570, Start Num: 6
Candidate Starts for Bobi_22:
(1, 21918), (Start: 3 @22308 has 1 MA's), (Start: 4 @22368 has 3 MA's), (Start: 6 @22410 has 77 MA's), (11, 22470), (18, 22533), (19, 22542), (21, 22569), (24, 22575), (27, 22593), (32, 22632), (36, 22653), (39, 22680), (41, 22698), (43, 22710), (50, 22755), (65, 22839), (73, 22899), (82, 22938), (83, 22941), (87, 22959), (89, 22968), (94, 22992), (98, 23013), (111, 23079), (125, 23139), (138, 23196), (147, 23235), (155, 23268), (165, 23316), (192, 23406), (215, 23544),

Gene: BobtimousPrime_33 Start: 30187, Stop: 31152, Start Num: 29
Candidate Starts for BobtimousPrime_33:
(23, 30136), (Start: 29 @30187 has 10 MA's), (40, 30259), (47, 30286), (53, 30328), (59, 30361), (79, 30487), (90, 30535), (119, 30676), (125, 30712), (149, 30814), (166, 30895), (173, 30928), (181,

30955), (190, 30973), (209, 31084), (212, 31102), (220, 31141),

Gene: BodEinwohner17_20 Start: 21986, Stop: 23152, Start Num: 5
Candidate Starts for BodEinwohner17_20:
(Start: 3 @21890 has 1 MA's), (Start: 4 @21950 has 3 MA's), (Start: 5 @21986 has 135 MA's), (Start: 6 @21992 has 77 MA's), (11, 22052), (18, 22115), (19, 22124), (21, 22151), (24, 22157), (27, 22175), (32, 22214), (36, 22235), (39, 22262), (41, 22280), (43, 22292), (50, 22337), (65, 22421), (73, 22481), (83, 22523), (87, 22541), (89, 22550), (94, 22574), (98, 22595), (111, 22661), (125, 22721), (138, 22778), (147, 22817), (155, 22850), (165, 22898), (192, 22988), (215, 23126),

Gene: Boomer_21 Start: 21629, Stop: 22795, Start Num: 5
Candidate Starts for Boomer_21:
(Start: 4 @21593 has 3 MA's), (Start: 5 @21629 has 135 MA's), (Start: 6 @21635 has 77 MA's), (11, 21695), (18, 21758), (19, 21767), (21, 21794), (24, 21800), (27, 21818), (32, 21857), (36, 21878), (39, 21905), (41, 21923), (43, 21935), (50, 21980), (65, 22064), (73, 22124), (83, 22166), (87, 22184), (89, 22193), (94, 22217), (98, 22238), (111, 22304), (125, 22364), (138, 22421), (147, 22460), (155, 22493), (165, 22541), (192, 22631), (215, 22769),

Gene: Brushbloom_21 Start: 21698, Stop: 22864, Start Num: 5
Candidate Starts for Brushbloom_21:
(1, 21212), (Start: 3 @21602 has 1 MA's), (Start: 4 @21662 has 3 MA's), (Start: 5 @21698 has 135 MA's), (Start: 6 @21704 has 77 MA's), (11, 21764), (18, 21827), (19, 21836), (21, 21863), (24, 21869), (27, 21887), (32, 21926), (36, 21947), (39, 21974), (41, 21992), (43, 22004), (50, 22049), (65, 22133), (73, 22193), (83, 22235), (87, 22253), (89, 22262), (94, 22286), (98, 22307), (111, 22373), (125, 22433), (138, 22490), (147, 22529), (155, 22562), (165, 22610), (192, 22700), (215, 22838),

Gene: Bubbles123_21 Start: 22535, Stop: 23695, Start Num: 6
Candidate Starts for Bubbles123_21:
(Start: 3 @22433 has 1 MA's), (Start: 4 @22493 has 3 MA's), (Start: 5 @22529 has 135 MA's), (Start: 6 @22535 has 77 MA's), (11, 22595), (18, 22658), (19, 22667), (21, 22694), (24, 22700), (27, 22718), (31, 22754), (32, 22757), (36, 22778), (39, 22805), (41, 22823), (43, 22835), (50, 22880), (65, 22964), (73, 23024), (83, 23066), (87, 23084), (94, 23117), (98, 23138), (111, 23204), (125, 23264), (138, 23321), (147, 23360), (155, 23393), (165, 23441), (192, 23531), (201, 23588), (215, 23669),

Gene: Burwell21_20 Start: 21842, Stop: 23044, Start Num: 6
Candidate Starts for Burwell21_20:
(Start: 4 @21800 has 3 MA's), (Start: 6 @21842 has 77 MA's), (9, 21881), (14, 21938), (18, 21962), (19, 21971), (21, 21998), (22, 22001), (25, 22016), (27, 22022), (31, 22058), (33, 22064), (36, 22082), (50, 22184), (57, 22223), (61, 22247), (64, 22265), (65, 22271), (69, 22298), (71, 22307), (73, 22331), (75, 22340), (81, 22367), (85, 22385), (87, 22391), (94, 22424), (100, 22454), (101, 22457), (111, 22529), (113, 22535), (125, 22592), (127, 22601), (138, 22649), (153, 22715), (158, 22733), (175, 22808), (187, 22841), (197, 22901), (201, 22931), (205, 22946), (206, 22952), (211, 22979),

Gene: Butterscotch_32 Start: 28634, Stop: 29500, Start Num: 42
Candidate Starts for Butterscotch_32:
(Start: 42 @28634 has 23 MA's), (63, 28766), (68, 28793), (77, 28847), (84, 28874), (86, 28886), (109, 29003), (117, 29021), (127, 29078), (129, 29087), (130, 29090), (138, 29126), (157, 29204), (162, 29231), (166, 29249), (174, 29285), (178, 29303), (197, 29366), (208, 29426),

Gene: BuzzLyseyear_22 Start: 22208, Stop: 23374, Start Num: 5
Candidate Starts for BuzzLyseyear_22:
(Start: 3 @22112 has 1 MA's), (Start: 4 @22172 has 3 MA's), (Start: 5 @22208 has 135 MA's), (Start: 6 @22214 has 77 MA's), (11, 22274), (18, 22337), (19, 22346), (21, 22373), (24, 22379), (27, 22397),

(32, 22436), (39, 22484), (41, 22502), (43, 22514), (50, 22559), (65, 22643), (73, 22703), (82, 22742), (83, 22745), (87, 22763), (89, 22772), (94, 22796), (98, 22817), (111, 22883), (125, 22943), (138, 23000), (147, 23039), (155, 23072), (165, 23120), (192, 23210), (215, 23348),

Gene: ByChance_20 Start: 21819, Stop: 23021, Start Num: 6
Candidate Starts for ByChance_20:
(Start: 4 @21777 has 3 MA's), (Start: 6 @21819 has 77 MA's), (9, 21858), (18, 21939), (19, 21948), (21, 21975), (22, 21978), (25, 21993), (27, 21999), (31, 22035), (33, 22041), (36, 22059), (50, 22161), (57, 22200), (61, 22224), (64, 22242), (65, 22248), (69, 22275), (71, 22284), (73, 22308), (75, 22317), (81, 22344), (85, 22362), (87, 22368), (94, 22401), (100, 22431), (101, 22434), (111, 22506), (113, 22512), (125, 22569), (127, 22578), (137, 22620), (138, 22626), (153, 22692), (158, 22710), (175, 22785), (187, 22818), (197, 22878), (201, 22908), (205, 22923), (206, 22929), (211, 22956),

Gene: Byougenkin_20 Start: 21829, Stop: 22995, Start Num: 5
Candidate Starts for Byougenkin_20:
(Start: 3 @21733 has 1 MA's), (Start: 4 @21793 has 3 MA's), (Start: 5 @21829 has 135 MA's), (Start: 6 @21835 has 77 MA's), (11, 21895), (17, 21952), (18, 21958), (19, 21967), (21, 21994), (24, 22000), (27, 22018), (32, 22057), (36, 22078), (39, 22105), (41, 22123), (43, 22135), (50, 22180), (65, 22264), (73, 22324), (83, 22366), (87, 22384), (89, 22393), (94, 22417), (98, 22438), (111, 22504), (125, 22564), (147, 22660), (155, 22693), (165, 22741), (215, 22969),

Gene: Cabrinians_20 Start: 21836, Stop: 23038, Start Num: 6
Candidate Starts for Cabrinians_20:
(Start: 4 @21794 has 3 MA's), (Start: 6 @21836 has 77 MA's), (9, 21875), (14, 21932), (18, 21956), (19, 21965), (21, 21992), (22, 21995), (25, 22010), (27, 22016), (31, 22052), (33, 22058), (36, 22076), (50, 22178), (57, 22217), (61, 22241), (64, 22259), (65, 22265), (69, 22292), (71, 22301), (73, 22325), (75, 22334), (81, 22361), (85, 22379), (87, 22385), (94, 22418), (100, 22448), (101, 22451), (111, 22523), (113, 22529), (125, 22586), (127, 22595), (138, 22643), (153, 22709), (158, 22727), (175, 22802), (187, 22835), (197, 22895), (201, 22925), (205, 22940), (206, 22946), (211, 22973),

Gene: CaptainTrips_21 Start: 22509, Stop: 23675, Start Num: 5
Candidate Starts for CaptainTrips_21:
(Start: 3 @22413 has 1 MA's), (Start: 4 @22473 has 3 MA's), (Start: 5 @22509 has 135 MA's), (Start: 6 @22515 has 77 MA's), (11, 22575), (18, 22638), (19, 22647), (21, 22674), (24, 22680), (27, 22698), (32, 22737), (36, 22758), (39, 22785), (41, 22803), (43, 22815), (50, 22860), (65, 22944), (73, 23004), (83, 23046), (87, 23064), (89, 23073), (94, 23097), (98, 23118), (111, 23184), (125, 23244), (138, 23301), (147, 23340), (155, 23373), (165, 23421), (192, 23511), (215, 23649),

Gene: Causa_38 Start: 35766, Stop: 36791, Start Num: 26
Candidate Starts for Causa_38:
(Start: 26 @35766 has 2 MA's), (37, 35838), (41, 35871), (46, 35892), (49, 35910), (50, 35928), (51, 35934), (55, 35955), (88, 36135), (96, 36168), (107, 36234), (111, 36267), (115, 36276), (118, 36282), (125, 36333), (133, 36369), (135, 36375), (138, 36387), (142, 36408), (145, 36417), (148, 36426), (166, 36510), (202, 36681), (209, 36711), (210, 36714), (212, 36729), (215, 36756),

Gene: Cborch11_32 Start: 29729, Stop: 30697, Start Num: 29
Candidate Starts for Cborch11_32:
(23, 29678), (Start: 29 @29729 has 10 MA's), (40, 29801), (47, 29828), (53, 29870), (59, 29903), (79, 30029), (90, 30077), (119, 30221), (125, 30257), (149, 30359), (166, 30440), (173, 30473), (181, 30500), (190, 30518), (212, 30647), (220, 30686),

Gene: Che8_21 Start: 21843, Stop: 23009, Start Num: 5
Candidate Starts for Che8_21:

(Start: 4 @21807 has 3 MA's), (Start: 5 @21843 has 135 MA's), (Start: 6 @21849 has 77 MA's), (11, 21909), (17, 21966), (18, 21972), (19, 21981), (20, 21996), (21, 22008), (24, 22014), (27, 22032), (32, 22071), (36, 22092), (39, 22119), (41, 22137), (43, 22149), (50, 22194), (60, 22239), (65, 22278), (73, 22338), (87, 22398), (98, 22452), (111, 22518), (125, 22578), (138, 22635), (147, 22674), (155, 22707), (165, 22755), (173, 22791), (192, 22845), (201, 22902), (215, 22983),

Gene: Cheesepuff_22 Start: 22665, Stop: 23831, Start Num: 5
Candidate Starts for Cheesepuff_22:
(Start: 4 @22629 has 3 MA's), (Start: 5 @22665 has 135 MA's), (Start: 6 @22671 has 77 MA's), (11, 22731), (18, 22794), (19, 22803), (21, 22830), (24, 22836), (27, 22854), (32, 22893), (36, 22914), (39, 22941), (41, 22959), (43, 22971), (50, 23016), (65, 23100), (73, 23160), (83, 23202), (87, 23220), (89, 23229), (94, 23253), (98, 23274), (111, 23340), (125, 23400), (138, 23457), (147, 23496), (155, 23529), (165, 23577), (192, 23667), (215, 23805),

Gene: Chevrolet_20 Start: 21855, Stop: 23021, Start Num: 5
Candidate Starts for Chevrolet_20:
(1, 21369), (2, 21537), (Start: 3 @21759 has 1 MA's), (Start: 4 @21819 has 3 MA's), (Start: 5 @21855 has 135 MA's), (Start: 6 @21861 has 77 MA's), (11, 21921), (18, 21984), (19, 21993), (21, 22020), (24, 22026), (27, 22044), (31, 22080), (32, 22083), (36, 22104), (39, 22131), (41, 22149), (43, 22161), (50, 22206), (65, 22290), (73, 22350), (83, 22392), (87, 22410), (94, 22443), (98, 22464), (111, 22530), (125, 22590), (138, 22647), (147, 22686), (155, 22719), (165, 22767), (192, 22857), (215, 22995),

Gene: ChickenDinner_21 Start: 21670, Stop: 22848, Start Num: 5
Candidate Starts for ChickenDinner_21:
(Start: 4 @21634 has 3 MA's), (Start: 5 @21670 has 135 MA's), (Start: 6 @21676 has 77 MA's), (11, 21736), (18, 21799), (20, 21823), (21, 21835), (24, 21841), (27, 21859), (32, 21898), (36, 21919), (39, 21946), (45, 21982), (50, 22021), (54, 22039), (57, 22057), (62, 22087), (64, 22099), (73, 22165), (87, 22225), (92, 22249), (94, 22258), (103, 22294), (109, 22339), (111, 22345), (112, 22348), (124, 22402), (125, 22408), (129, 22426), (138, 22465), (149, 22510), (150, 22513), (159, 22552), (163, 22576), (165, 22585), (168, 22594), (184, 22654), (187, 22660), (217, 22828),

Gene: Chill_33 Start: 28640, Stop: 29506, Start Num: 42
Candidate Starts for Chill_33:
(Start: 42 @28640 has 23 MA's), (63, 28772), (68, 28799), (77, 28853), (84, 28880), (86, 28892), (109, 29009), (117, 29027), (127, 29084), (129, 29093), (130, 29096), (138, 29132), (157, 29210), (162, 29237), (166, 29255), (174, 29291), (178, 29309), (197, 29372), (208, 29432),

Gene: Chuckly_20 Start: 21980, Stop: 23146, Start Num: 5
Candidate Starts for Chuckly_20:
(Start: 4 @21944 has 3 MA's), (Start: 5 @21980 has 135 MA's), (Start: 6 @21986 has 77 MA's), (11, 22046), (18, 22109), (20, 22133), (21, 22145), (24, 22151), (27, 22169), (32, 22208), (36, 22229), (39, 22256), (41, 22274), (43, 22286), (50, 22331), (65, 22415), (73, 22475), (87, 22535), (89, 22544), (94, 22568), (99, 22592), (110, 22652), (114, 22661), (116, 22664), (121, 22688), (122, 22691), (124, 22712), (125, 22718), (137, 22769), (159, 22859), (172, 22922), (183, 22955), (185, 22958), (186, 22961), (191, 22976), (205, 23048),

Gene: Corium_20 Start: 21854, Stop: 23020, Start Num: 5
Candidate Starts for Corium_20:
(Start: 3 @21758 has 1 MA's), (Start: 4 @21818 has 3 MA's), (Start: 5 @21854 has 135 MA's), (Start: 6 @21860 has 77 MA's), (11, 21920), (18, 21983), (19, 21992), (21, 22019), (24, 22025), (27, 22043), (32, 22082), (36, 22103), (39, 22130), (41, 22148), (43, 22160), (50, 22205), (65, 22289), (73, 22349), (83, 22391), (87, 22409), (89, 22418), (94, 22442), (98, 22463), (111, 22529), (125, 22589), (138, 22646), (147, 22685), (155, 22718), (165, 22766), (192, 22856), (215, 22994),

Gene: Cornucopia_21 Start: 21852, Stop: 23018, Start Num: 5
Candidate Starts for Cornucopia_21:
(Start: 3 @21756 has 1 MA's), (Start: 4 @21816 has 3 MA's), (Start: 5 @21852 has 135 MA's), (Start: 6 @21858 has 77 MA's), (11, 21918), (18, 21981), (19, 21990), (21, 22017), (24, 22023), (27, 22041), (32, 22080), (36, 22101), (39, 22128), (41, 22146), (43, 22158), (50, 22203), (65, 22287), (73, 22347), (83, 22389), (87, 22407), (89, 22416), (94, 22440), (98, 22461), (111, 22527), (125, 22587), (138, 22644), (147, 22683), (155, 22716), (165, 22764), (192, 22854), (215, 22992),

Gene: DLane_20 Start: 21809, Stop: 22969, Start Num: 6
Candidate Starts for DLane_20:
(1, 21317), (Start: 3 @21707 has 1 MA's), (Start: 4 @21767 has 3 MA's), (Start: 6 @21809 has 77 MA's), (11, 21869), (18, 21932), (19, 21941), (21, 21968), (24, 21974), (27, 21992), (32, 22031), (36, 22052), (39, 22079), (41, 22097), (43, 22109), (50, 22154), (65, 22238), (73, 22298), (83, 22340), (87, 22358), (89, 22367), (94, 22391), (98, 22412), (111, 22478), (125, 22538), (138, 22595), (147, 22634), (155, 22667), (165, 22715), (192, 22805), (201, 22862), (215, 22943),

Gene: DRBy19_20 Start: 21846, Stop: 23009, Start Num: 5
Candidate Starts for DRBy19_20:
(Start: 4 @21810 has 3 MA's), (Start: 5 @21846 has 135 MA's), (Start: 6 @21852 has 77 MA's), (11, 21912), (17, 21969), (18, 21975), (20, 21999), (24, 22017), (27, 22035), (32, 22074), (36, 22095), (39, 22122), (41, 22140), (45, 22158), (50, 22197), (65, 22281), (73, 22341), (87, 22401), (92, 22425), (93, 22428), (123, 22563), (125, 22584), (127, 22593), (138, 22641), (148, 22683), (155, 22710), (161, 22740), (183, 22824), (207, 22926), (213, 22959), (218, 22992),

Gene: DaWorst_22 Start: 22347, Stop: 23513, Start Num: 5
Candidate Starts for DaWorst_22:
(Start: 4 @22311 has 3 MA's), (Start: 5 @22347 has 135 MA's), (Start: 6 @22353 has 77 MA's), (11, 22413), (18, 22476), (19, 22485), (21, 22512), (24, 22518), (27, 22536), (32, 22575), (36, 22596), (39, 22623), (41, 22641), (43, 22653), (50, 22698), (65, 22782), (73, 22842), (83, 22884), (87, 22902), (94, 22935), (98, 22956), (111, 23022), (125, 23082), (138, 23139), (147, 23178), (155, 23211), (192, 23349), (215, 23487),

Gene: DaddyRickover_20 Start: 21991, Stop: 23151, Start Num: 6
Candidate Starts for DaddyRickover_20:
(Start: 3 @21889 has 1 MA's), (Start: 4 @21949 has 3 MA's), (Start: 6 @21991 has 77 MA's), (11, 22051), (18, 22114), (19, 22123), (21, 22150), (24, 22156), (27, 22174), (32, 22213), (36, 22234), (39, 22261), (41, 22279), (43, 22291), (50, 22336), (65, 22420), (73, 22480), (83, 22522), (87, 22540), (94, 22573), (98, 22594), (111, 22660), (125, 22720), (138, 22777), (155, 22849), (165, 22897), (215, 23125),

Gene: Daenerys_20 Start: 21820, Stop: 22983, Start Num: 5
Candidate Starts for Daenerys_20:
(Start: 4 @21784 has 3 MA's), (Start: 5 @21820 has 135 MA's), (Start: 6 @21826 has 77 MA's), (11, 21886), (14, 21925), (17, 21943), (18, 21949), (19, 21958), (20, 21973), (24, 21991), (27, 22009), (36, 22069), (39, 22096), (41, 22114), (43, 22126), (50, 22171), (54, 22189), (65, 22255), (73, 22315), (87, 22375), (92, 22399), (93, 22402), (123, 22537), (125, 22558), (126, 22564), (127, 22567), (138, 22615), (140, 22624), (148, 22657), (155, 22684), (161, 22714), (183, 22798), (207, 22900), (213, 22933), (218, 22966),

Gene: Damien_31 Start: 29730, Stop: 30698, Start Num: 29
Candidate Starts for Damien_31:

(23, 29679), (Start: 29 @29730 has 10 MA's), (40, 29802), (47, 29829), (53, 29871), (59, 29904), (79, 30030), (90, 30078), (119, 30222), (125, 30258), (149, 30360), (166, 30441), (173, 30474), (181, 30501), (190, 30519), (212, 30648), (220, 30687),

Gene: Dante_20 Start: 21833, Stop: 22999, Start Num: 5
Candidate Starts for Dante_20:
(Start: 3 @21737 has 1 MA's), (Start: 4 @21797 has 3 MA's), (Start: 5 @21833 has 135 MA's), (Start: 6 @21839 has 77 MA's), (11, 21899), (18, 21962), (19, 21971), (21, 21998), (24, 22004), (27, 22022), (32, 22061), (36, 22082), (39, 22109), (41, 22127), (43, 22139), (50, 22184), (65, 22268), (73, 22328), (87, 22388), (89, 22397), (94, 22421), (98, 22442), (111, 22508), (125, 22568), (138, 22625), (147, 22664), (155, 22697), (165, 22745), (215, 22973),

Gene: DeadP_20 Start: 21847, Stop: 23013, Start Num: 5
Candidate Starts for DeadP_20:
(Start: 4 @21811 has 3 MA's), (Start: 5 @21847 has 135 MA's), (Start: 6 @21853 has 77 MA's), (11, 21913), (18, 21976), (19, 21985), (21, 22012), (24, 22018), (27, 22036), (32, 22075), (36, 22096), (39, 22123), (41, 22141), (43, 22153), (50, 22198), (65, 22282), (73, 22342), (83, 22384), (87, 22402), (89, 22411), (94, 22435), (98, 22456), (111, 22522), (125, 22582), (138, 22639), (147, 22678), (155, 22711), (165, 22759), (215, 22987),

Gene: Deb65_20 Start: 21823, Stop: 22980, Start Num: 6
Candidate Starts for Deb65_20:
(Start: 4 @21781 has 3 MA's), (Start: 5 @21817 has 135 MA's), (Start: 6 @21823 has 77 MA's), (11, 21883), (14, 21922), (17, 21940), (18, 21946), (19, 21955), (20, 21970), (24, 21988), (27, 22006), (36, 22066), (39, 22093), (41, 22111), (43, 22123), (50, 22168), (54, 22186), (65, 22252), (73, 22312), (87, 22372), (92, 22396), (93, 22399), (123, 22534), (125, 22555), (126, 22561), (127, 22564), (138, 22612), (140, 22621), (148, 22654), (155, 22681), (161, 22711), (183, 22795), (207, 22897), (213, 22930), (218, 22963),

Gene: Delton_32 Start: 28646, Stop: 29512, Start Num: 42
Candidate Starts for Delton_32:
(Start: 42 @28646 has 23 MA's), (63, 28778), (68, 28805), (77, 28859), (84, 28886), (86, 28898), (109, 29015), (117, 29033), (127, 29090), (129, 29099), (130, 29102), (138, 29138), (157, 29216), (162, 29243), (166, 29261), (174, 29297), (178, 29315), (197, 29378), (208, 29438),

Gene: DillTech15_20 Start: 21851, Stop: 23017, Start Num: 5
Candidate Starts for DillTech15_20:
(Start: 3 @21755 has 1 MA's), (Start: 4 @21815 has 3 MA's), (Start: 5 @21851 has 135 MA's), (Start: 6 @21857 has 77 MA's), (11, 21917), (18, 21980), (19, 21989), (21, 22016), (24, 22022), (27, 22040), (32, 22079), (36, 22100), (39, 22127), (41, 22145), (43, 22157), (50, 22202), (65, 22286), (73, 22346), (83, 22388), (87, 22406), (89, 22415), (94, 22439), (98, 22460), (111, 22526), (125, 22586), (138, 22643), (147, 22682), (155, 22715), (165, 22763), (192, 22853), (215, 22991),

Gene: DirtMcgirt_21 Start: 21638, Stop: 22804, Start Num: 5
Candidate Starts for DirtMcgirt_21:
(Start: 4 @21602 has 3 MA's), (Start: 5 @21638 has 135 MA's), (Start: 6 @21644 has 77 MA's), (11, 21704), (18, 21767), (19, 21776), (21, 21803), (24, 21809), (27, 21827), (32, 21866), (36, 21887), (39, 21914), (41, 21932), (43, 21944), (50, 21989), (65, 22073), (73, 22133), (87, 22193), (89, 22202), (94, 22226), (98, 22247), (111, 22313), (125, 22373), (147, 22469), (155, 22502), (165, 22550), (192, 22640), (215, 22778),

Gene: DoRead_20 Start: 21777, Stop: 22952, Start Num: 7
Candidate Starts for DoRead_20:

(Start: 4 @21732 has 3 MA's), (Start: 7 @21777 has 2 MA's), (9, 21816), (11, 21834), (12, 21843), (18, 21897), (19, 21906), (36, 22017), (39, 22044), (50, 22119), (54, 22137), (57, 22155), (64, 22197), (65, 22203), (67, 22212), (71, 22239), (73, 22263), (87, 22323), (97, 22365), (106, 22410), (111, 22446), (115, 22455), (117, 22458), (120, 22479), (125, 22512), (132, 22536), (152, 22629), (163, 22683), (170, 22722), (175, 22734), (179, 22752), (180, 22755), (181, 22758), (196, 22812), (203, 22860), (214, 22917), (215, 22929), (219, 22941),

Gene: DocMcStuffins_21 Start: 21676, Stop: 22848, Start Num: 6
Candidate Starts for DocMcStuffins_21:
(Start: 4 @21634 has 3 MA's), (Start: 5 @21670 has 135 MA's), (Start: 6 @21676 has 77 MA's), (11, 21736), (18, 21799), (20, 21823), (21, 21835), (24, 21841), (27, 21859), (32, 21898), (36, 21919), (39, 21946), (45, 21982), (50, 22021), (54, 22039), (57, 22057), (62, 22087), (64, 22099), (73, 22165), (87, 22225), (92, 22249), (94, 22258), (103, 22294), (109, 22339), (111, 22345), (112, 22348), (124, 22402), (125, 22408), (129, 22426), (138, 22465), (149, 22510), (150, 22513), (159, 22552), (163, 22576), (165, 22585), (168, 22594), (184, 22654), (187, 22660), (217, 22828),

Gene: Donkeykong_20 Start: 21997, Stop: 23157, Start Num: 6
Candidate Starts for Donkeykong_20:
(1, 21505), (Start: 3 @21895 has 1 MA's), (Start: 4 @21955 has 3 MA's), (Start: 6 @21997 has 77 MA's), (11, 22057), (18, 22120), (19, 22129), (24, 22162), (27, 22180), (32, 22219), (36, 22240), (39, 22267), (41, 22285), (43, 22297), (50, 22342), (65, 22426), (73, 22486), (83, 22528), (87, 22546), (89, 22555), (94, 22579), (98, 22600), (111, 22666), (125, 22726), (138, 22783), (147, 22822), (155, 22855), (165, 22903), (192, 22993), (215, 23131),

Gene: Doomphist_20 Start: 21957, Stop: 23117, Start Num: 6
Candidate Starts for Doomphist_20:
(1, 21465), (Start: 3 @21855 has 1 MA's), (Start: 4 @21915 has 3 MA's), (Start: 6 @21957 has 77 MA's), (11, 22017), (18, 22080), (19, 22089), (21, 22116), (24, 22122), (27, 22140), (32, 22179), (36, 22200), (39, 22227), (41, 22245), (43, 22257), (50, 22302), (65, 22386), (73, 22446), (83, 22488), (87, 22506), (94, 22539), (98, 22560), (111, 22626), (125, 22686), (138, 22743), (147, 22782), (155, 22815), (165, 22863), (215, 23091),

Gene: Doomslug_22 Start: 21678, Stop: 22838, Start Num: 6
Candidate Starts for Doomslug_22:
(Start: 3 @21576 has 1 MA's), (Start: 4 @21636 has 3 MA's), (Start: 5 @21672 has 135 MA's), (Start: 6 @21678 has 77 MA's), (11, 21738), (18, 21801), (19, 21810), (21, 21837), (24, 21843), (27, 21861), (32, 21900), (36, 21921), (39, 21948), (41, 21966), (43, 21978), (50, 22023), (65, 22107), (73, 22167), (83, 22209), (87, 22227), (89, 22236), (94, 22260), (98, 22281), (111, 22347), (125, 22407), (138, 22464), (147, 22503), (155, 22536), (165, 22584), (192, 22674), (215, 22812),

Gene: Dorothy_20 Start: 21778, Stop: 22941, Start Num: 5
Candidate Starts for Dorothy_20:
(Start: 4 @21742 has 3 MA's), (Start: 5 @21778 has 135 MA's), (Start: 6 @21784 has 77 MA's), (11, 21844), (14, 21883), (17, 21901), (18, 21907), (19, 21916), (20, 21931), (24, 21949), (27, 21967), (36, 22027), (39, 22054), (41, 22072), (43, 22084), (50, 22129), (54, 22147), (65, 22213), (73, 22273), (87, 22333), (92, 22357), (93, 22360), (123, 22495), (125, 22516), (126, 22522), (127, 22525), (138, 22573), (140, 22582), (148, 22615), (155, 22642), (161, 22672), (183, 22756), (207, 22858), (213, 22891), (218, 22924),

Gene: DosHalletts_21 Start: 21765, Stop: 22967, Start Num: 6
Candidate Starts for DosHalletts_21:
(Start: 4 @21723 has 3 MA's), (Start: 6 @21765 has 77 MA's), (9, 21804), (14, 21861), (17, 21879), (18, 21885), (19, 21894), (22, 21924), (27, 21945), (31, 21981), (33, 21987), (36, 22005), (50, 22107),

(57, 22146), (61, 22170), (64, 22188), (65, 22194), (69, 22221), (73, 22254), (75, 22263), (81, 22290), (85, 22308), (87, 22314), (92, 22338), (94, 22347), (100, 22377), (101, 22380), (111, 22452), (113, 22458), (125, 22515), (127, 22524), (138, 22572), (153, 22638), (158, 22656), (175, 22731), (187, 22764), (194, 22797), (197, 22824), (201, 22854), (205, 22869), (206, 22875), (211, 22902),

Gene: DotProduct_20 Start: 21819, Stop: 22985, Start Num: 5
Candidate Starts for DotProduct_20:
(Start: 4 @21783 has 3 MA's), (Start: 5 @21819 has 135 MA's), (Start: 6 @21825 has 77 MA's), (11, 21885), (18, 21948), (19, 21957), (21, 21984), (24, 21990), (27, 22008), (32, 22047), (36, 22068), (39, 22095), (41, 22113), (43, 22125), (50, 22170), (65, 22254), (73, 22314), (87, 22374), (89, 22383), (94, 22407), (98, 22428), (111, 22494), (125, 22554), (138, 22611), (147, 22650), (155, 22683), (165, 22731), (192, 22821), (215, 22959),

Gene: Doug_21 Start: 22370, Stop: 23533, Start Num: 5
Candidate Starts for Doug_21:
(Start: 4 @22334 has 3 MA's), (Start: 5 @22370 has 135 MA's), (Start: 6 @22376 has 77 MA's), (11, 22436), (14, 22475), (17, 22493), (18, 22499), (19, 22508), (20, 22523), (24, 22541), (27, 22559), (32, 22598), (36, 22619), (39, 22646), (50, 22721), (64, 22799), (73, 22865), (87, 22925), (92, 22949), (93, 22952), (123, 23087), (125, 23108), (126, 23114), (127, 23117), (138, 23165), (140, 23174), (148, 23207), (155, 23234), (161, 23264), (183, 23348), (207, 23450), (213, 23483), (218, 23516),

Gene: Drago_21 Start: 21636, Stop: 22802, Start Num: 5
Candidate Starts for Drago_21:
(1, 21150), (Start: 3 @21540 has 1 MA's), (Start: 4 @21600 has 3 MA's), (Start: 5 @21636 has 135 MA's), (Start: 6 @21642 has 77 MA's), (11, 21702), (18, 21765), (19, 21774), (21, 21801), (24, 21807), (27, 21825), (32, 21864), (36, 21885), (39, 21912), (41, 21930), (43, 21942), (50, 21987), (65, 22071), (73, 22131), (82, 22170), (83, 22173), (87, 22191), (89, 22200), (94, 22224), (98, 22245), (111, 22311), (125, 22371), (138, 22428), (147, 22467), (155, 22500), (165, 22548), (192, 22638), (215, 22776),

Gene: Duke13_38 Start: 34222, Stop: 35382, Start Num: 6
Candidate Starts for Duke13_38:
(Start: 3 @34120 has 1 MA's), (Start: 4 @34180 has 3 MA's), (Start: 6 @34222 has 77 MA's), (11, 34282), (18, 34345), (19, 34354), (21, 34381), (24, 34387), (27, 34405), (32, 34444), (36, 34465), (39, 34492), (41, 34510), (43, 34522), (50, 34567), (65, 34651), (73, 34711), (83, 34753), (87, 34771), (94, 34804), (98, 34825), (111, 34891), (125, 34951), (138, 35008), (155, 35080), (165, 35128), (215, 35356),

Gene: Eish_20 Start: 21960, Stop: 23123, Start Num: 5
Candidate Starts for Eish_20:
(Start: 4 @21924 has 3 MA's), (Start: 5 @21960 has 135 MA's), (Start: 6 @21966 has 77 MA's), (11, 22026), (18, 22089), (19, 22098), (20, 22113), (24, 22131), (27, 22149), (36, 22209), (39, 22236), (41, 22254), (43, 22266), (50, 22311), (65, 22395), (73, 22455), (87, 22515), (92, 22539), (93, 22542), (123, 22677), (125, 22698), (126, 22704), (127, 22707), (138, 22755), (140, 22764), (148, 22797), (155, 22824), (161, 22854), (183, 22938), (207, 23040), (213, 23073), (218, 23106),

Gene: EleanorGeorge_20 Start: 21985, Stop: 23151, Start Num: 5
Candidate Starts for EleanorGeorge_20:
(Start: 3 @21889 has 1 MA's), (Start: 4 @21949 has 3 MA's), (Start: 5 @21985 has 135 MA's), (Start: 6 @21991 has 77 MA's), (11, 22051), (18, 22114), (19, 22123), (21, 22150), (24, 22156), (27, 22174), (32, 22213), (36, 22234), (39, 22261), (41, 22279), (43, 22291), (50, 22336), (65, 22420), (73, 22480), (83, 22522), (87, 22540), (89, 22549), (94, 22573), (98, 22594), (111, 22660), (125, 22720), (138, 22777), (147, 22816), (155, 22849), (165, 22897), (192, 22987), (215, 23125),

Gene: EmiMonkey_20 Start: 21775, Stop: 22935, Start Num: 6
Candidate Starts for EmiMonkey_20:
(Start: 4 @21733 has 3 MA's), (Start: 5 @21769 has 135 MA's), (Start: 6 @21775 has 77 MA's), (11, 21835), (18, 21898), (19, 21907), (21, 21934), (24, 21940), (27, 21958), (32, 21997), (36, 22018), (39, 22045), (41, 22063), (43, 22075), (50, 22120), (65, 22204), (73, 22264), (82, 22303), (83, 22306), (87, 22324), (89, 22333), (94, 22357), (98, 22378), (111, 22444), (125, 22504), (138, 22561), (147, 22600), (155, 22633), (165, 22681), (192, 22771), (215, 22909),

Gene: Emma_20 Start: 21871, Stop: 23031, Start Num: 6
Candidate Starts for Emma_20:
(1, 21379), (Start: 3 @21769 has 1 MA's), (Start: 4 @21829 has 3 MA's), (Start: 6 @21871 has 77 MA's), (11, 21931), (18, 21994), (19, 22003), (21, 22030), (24, 22036), (27, 22054), (32, 22093), (36, 22114), (39, 22141), (41, 22159), (43, 22171), (50, 22216), (65, 22300), (73, 22360), (83, 22402), (87, 22420), (89, 22429), (94, 22453), (98, 22474), (111, 22540), (125, 22600), (138, 22657), (147, 22696), (155, 22729), (165, 22777), (192, 22867), (215, 23005),

Gene: Emmaloid_21 Start: 21615, Stop: 22781, Start Num: 5
Candidate Starts for Emmaloid_21:
(Start: 4 @21579 has 3 MA's), (Start: 5 @21615 has 135 MA's), (Start: 6 @21621 has 77 MA's), (11, 21681), (18, 21744), (19, 21753), (21, 21780), (24, 21786), (27, 21804), (32, 21843), (36, 21864), (39, 21891), (41, 21909), (43, 21921), (50, 21966), (65, 22050), (73, 22110), (82, 22149), (83, 22152), (87, 22170), (89, 22179), (94, 22203), (98, 22224), (111, 22290), (125, 22350), (138, 22407), (147, 22446), (155, 22479), (165, 22527), (192, 22617), (215, 22755),

Gene: Empress_21 Start: 23169, Stop: 24332, Start Num: 5
Candidate Starts for Empress_21:
(Start: 4 @23133 has 3 MA's), (Start: 5 @23169 has 135 MA's), (Start: 6 @23175 has 77 MA's), (11, 23235), (14, 23274), (17, 23292), (18, 23298), (19, 23307), (20, 23322), (24, 23340), (27, 23358), (36, 23418), (39, 23445), (41, 23463), (43, 23475), (50, 23520), (54, 23538), (65, 23604), (73, 23664), (87, 23724), (92, 23748), (93, 23751), (123, 23886), (125, 23907), (126, 23913), (127, 23916), (138, 23964), (140, 23973), (148, 24006), (155, 24033), (161, 24063), (183, 24147), (207, 24249), (213, 24282), (218, 24315),

Gene: Enby_21 Start: 21636, Stop: 22802, Start Num: 5
Candidate Starts for Enby_21:
(1, 21150), (Start: 3 @21540 has 1 MA's), (Start: 4 @21600 has 3 MA's), (Start: 5 @21636 has 135 MA's), (Start: 6 @21642 has 77 MA's), (11, 21702), (18, 21765), (19, 21774), (21, 21801), (24, 21807), (27, 21825), (32, 21864), (36, 21885), (39, 21912), (41, 21930), (43, 21942), (50, 21987), (65, 22071), (73, 22131), (82, 22170), (83, 22173), (87, 22191), (89, 22200), (94, 22224), (98, 22245), (111, 22311), (125, 22371), (138, 22428), (147, 22467), (155, 22500), (165, 22548), (192, 22638), (215, 22776),

Gene: Enzomatic_22 Start: 21863, Stop: 23029, Start Num: 5
Candidate Starts for Enzomatic_22:
(Start: 4 @21827 has 3 MA's), (Start: 5 @21863 has 135 MA's), (Start: 6 @21869 has 77 MA's), (11, 21929), (18, 21992), (19, 22001), (21, 22028), (24, 22034), (27, 22052), (32, 22091), (36, 22112), (39, 22139), (41, 22157), (43, 22169), (50, 22214), (56, 22247), (65, 22298), (73, 22358), (83, 22400), (87, 22418), (89, 22427), (94, 22451), (98, 22472), (111, 22538), (125, 22598), (138, 22655), (147, 22694), (155, 22727), (165, 22775), (215, 23003),

Gene: Eradicator_20 Start: 21801, Stop: 23003, Start Num: 6
Candidate Starts for Eradicator_20:
(Start: 4 @21759 has 3 MA's), (Start: 6 @21801 has 77 MA's), (9, 21840), (17, 21915), (18, 21921), (19, 21930), (22, 21960), (27, 21981), (31, 22017), (33, 22023), (36, 22041), (45, 22104), (50, 22143),

(57, 22182), (61, 22206), (64, 22224), (65, 22230), (69, 22257), (73, 22290), (75, 22299), (81, 22326), (85, 22344), (87, 22350), (92, 22374), (94, 22383), (100, 22413), (101, 22416), (111, 22488), (113, 22494), (125, 22551), (127, 22560), (137, 22602), (138, 22608), (153, 22674), (175, 22767), (187, 22800), (194, 22833), (197, 22860), (205, 22905), (206, 22911), (211, 22938),

Gene: Erk16_32 Start: 28637, Stop: 29503, Start Num: 42
Candidate Starts for Erk16_32:
(Start: 42 @28637 has 23 MA's), (63, 28769), (68, 28796), (77, 28850), (84, 28877), (86, 28889), (109, 29006), (117, 29024), (127, 29081), (129, 29090), (130, 29093), (138, 29129), (157, 29207), (162, 29234), (166, 29252), (174, 29288), (178, 29306), (197, 29369), (208, 29429),

Gene: Fancypants_20 Start: 21819, Stop: 22985, Start Num: 5
Candidate Starts for Fancypants_20:
(Start: 4 @21783 has 3 MA's), (Start: 5 @21819 has 135 MA's), (Start: 6 @21825 has 77 MA's), (11, 21885), (18, 21948), (20, 21972), (21, 21984), (24, 21990), (27, 22008), (32, 22047), (36, 22068), (39, 22095), (41, 22113), (43, 22125), (50, 22170), (54, 22188), (60, 22215), (65, 22254), (73, 22314), (87, 22374), (89, 22383), (94, 22407), (99, 22431), (110, 22491), (114, 22500), (116, 22503), (121, 22527), (122, 22530), (124, 22551), (125, 22557), (137, 22608), (159, 22698), (172, 22761), (183, 22794), (185, 22797), (186, 22800), (191, 22815), (205, 22887), (206, 22893),

Gene: Fastidio_20 Start: 21788, Stop: 22948, Start Num: 6
Candidate Starts for Fastidio_20:
(Start: 3 @21686 has 1 MA's), (Start: 4 @21746 has 3 MA's), (Start: 5 @21782 has 135 MA's), (Start: 6 @21788 has 77 MA's), (11, 21848), (18, 21911), (19, 21920), (21, 21947), (24, 21953), (27, 21971), (32, 22010), (36, 22031), (39, 22058), (41, 22076), (43, 22088), (50, 22133), (65, 22217), (73, 22277), (83, 22319), (87, 22337), (89, 22346), (94, 22370), (98, 22391), (111, 22457), (125, 22517), (138, 22574), (147, 22613), (155, 22646), (165, 22694), (192, 22784), (215, 22922),

Gene: Filuzino_20 Start: 21814, Stop: 22974, Start Num: 6
Candidate Starts for Filuzino_20:
(Start: 6 @21814 has 77 MA's), (11, 21874), (18, 21937), (19, 21946), (21, 21973), (24, 21979), (27, 21997), (32, 22036), (36, 22057), (39, 22084), (41, 22102), (43, 22114), (50, 22159), (54, 22177), (65, 22243), (73, 22303), (83, 22345), (87, 22363), (89, 22372), (94, 22396), (98, 22417), (111, 22483), (125, 22543), (138, 22600), (147, 22639), (155, 22672), (165, 22720), (192, 22810), (201, 22867), (215, 22948),

Gene: Firehouse51_21 Start: 22374, Stop: 23540, Start Num: 5
Candidate Starts for Firehouse51_21:
(Start: 3 @22278 has 1 MA's), (Start: 4 @22338 has 3 MA's), (Start: 5 @22374 has 135 MA's), (Start: 6 @22380 has 77 MA's), (11, 22440), (18, 22503), (19, 22512), (21, 22539), (24, 22545), (27, 22563), (32, 22602), (36, 22623), (39, 22650), (41, 22668), (43, 22680), (50, 22725), (65, 22809), (73, 22869), (83, 22911), (87, 22929), (89, 22938), (94, 22962), (98, 22983), (111, 23049), (125, 23109), (138, 23166), (147, 23205), (155, 23238), (165, 23286), (192, 23376), (215, 23514),

Gene: Flathead_21 Start: 21682, Stop: 22848, Start Num: 5
Candidate Starts for Flathead_21:
(Start: 4 @21646 has 3 MA's), (Start: 5 @21682 has 135 MA's), (Start: 6 @21688 has 77 MA's), (11, 21748), (18, 21811), (19, 21820), (21, 21847), (24, 21853), (27, 21871), (32, 21910), (36, 21931), (39, 21958), (41, 21976), (43, 21988), (50, 22033), (65, 22117), (73, 22177), (82, 22216), (83, 22219), (87, 22237), (89, 22246), (94, 22270), (98, 22291), (111, 22357), (125, 22417), (138, 22474), (147, 22513), (155, 22546), (165, 22594), (192, 22684), (215, 22822),

Gene: Florinda_20 Start: 21836, Stop: 22999, Start Num: 5

Candidate Starts for Florinda_20:
(Start: 4 @21800 has 3 MA's), (Start: 5 @21836 has 135 MA's), (Start: 6 @21842 has 77 MA's), (11, 21902), (17, 21959), (18, 21965), (20, 21989), (24, 22007), (27, 22025), (32, 22064), (36, 22085), (39, 22112), (41, 22130), (45, 22148), (50, 22187), (65, 22271), (73, 22331), (87, 22391), (92, 22415), (93, 22418), (123, 22553), (125, 22574), (127, 22583), (138, 22631), (148, 22673), (155, 22700), (161, 22730), (183, 22814), (207, 22916), (213, 22949), (218, 22982),

Gene: Frankie_21 Start: 21927, Stop: 23093, Start Num: 8
Candidate Starts for Frankie_21:
(Start: 8 @21927 has 1 MA's), (13, 21993), (18, 22044), (20, 22068), (21, 22080), (24, 22086), (25, 22098), (27, 22104), (31, 22140), (32, 22143), (36, 22164), (39, 22191), (50, 22266), (54, 22284), (57, 22302), (73, 22410), (87, 22470), (94, 22503), (103, 22539), (109, 22584), (111, 22590), (112, 22593), (124, 22647), (125, 22653), (127, 22662), (129, 22671), (138, 22710), (150, 22758), (165, 22830), (181, 22896), (184, 22899),

Gene: FreddyB_20 Start: 21845, Stop: 23047, Start Num: 6
Candidate Starts for FreddyB_20:
(Start: 4 @21803 has 3 MA's), (Start: 6 @21845 has 77 MA's), (9, 21884), (14, 21941), (18, 21965), (19, 21974), (21, 22001), (22, 22004), (25, 22019), (27, 22025), (31, 22061), (33, 22067), (36, 22085), (50, 22187), (57, 22226), (61, 22250), (64, 22268), (65, 22274), (69, 22301), (71, 22310), (73, 22334), (75, 22343), (81, 22370), (85, 22388), (87, 22394), (94, 22427), (100, 22457), (101, 22460), (111, 22532), (113, 22538), (125, 22595), (127, 22604), (138, 22652), (153, 22718), (158, 22736), (175, 22811), (187, 22844), (197, 22904), (201, 22934), (205, 22949), (206, 22955), (211, 22982),

Gene: Fruitloop_20 Start: 21852, Stop: 23012, Start Num: 6
Candidate Starts for Fruitloop_20:
(Start: 3 @21750 has 1 MA's), (Start: 4 @21810 has 3 MA's), (Start: 6 @21852 has 77 MA's), (11, 21912), (18, 21975), (19, 21984), (21, 22011), (24, 22017), (27, 22035), (32, 22074), (39, 22122), (41, 22140), (43, 22152), (50, 22197), (65, 22281), (73, 22341), (83, 22383), (87, 22401), (89, 22410), (94, 22434), (98, 22455), (111, 22521), (125, 22581), (138, 22638), (147, 22677), (155, 22710), (165, 22758), (215, 22986),

Gene: GUmbie_20 Start: 21819, Stop: 22985, Start Num: 5
Candidate Starts for GUmbie_20:
(Start: 4 @21783 has 3 MA's), (Start: 5 @21819 has 135 MA's), (Start: 6 @21825 has 77 MA's), (11, 21885), (18, 21948), (19, 21957), (21, 21984), (24, 21990), (27, 22008), (32, 22047), (36, 22068), (39, 22095), (41, 22113), (43, 22125), (50, 22170), (65, 22254), (73, 22314), (87, 22374), (89, 22383), (94, 22407), (98, 22428), (111, 22494), (125, 22554), (147, 22650), (155, 22683), (165, 22731), (192, 22821), (215, 22959),

Gene: Gaia_23 Start: 24381, Stop: 25535, Start Num: 7
Candidate Starts for Gaia_23:
(Start: 4 @24336 has 3 MA's), (Start: 7 @24381 has 2 MA's), (9, 24420), (11, 24438), (12, 24447), (17, 24495), (18, 24501), (19, 24510), (36, 24621), (45, 24684), (50, 24723), (54, 24741), (57, 24759), (64, 24801), (65, 24807), (71, 24843), (73, 24867), (81, 24903), (87, 24927), (94, 24960), (99, 24984), (109, 25041), (110, 25044), (111, 25047), (121, 25077), (125, 25107), (127, 25116), (137, 25158), (144, 25194), (164, 25278), (180, 25344), (188, 25359), (206, 25443), (216, 25515),

Gene: Galactic_20 Start: 21811, Stop: 22977, Start Num: 5
Candidate Starts for Galactic_20:
(Start: 4 @21775 has 3 MA's), (Start: 5 @21811 has 135 MA's), (Start: 6 @21817 has 77 MA's), (11, 21877), (18, 21940), (19, 21949), (21, 21976), (24, 21982), (27, 22000), (32, 22039), (36, 22060), (39, 22087), (41, 22105), (43, 22117), (50, 22162), (65, 22246), (73, 22306), (83, 22348), (87, 22366), (89,

22375), (94, 22399), (98, 22420), (111, 22486), (125, 22546), (138, 22603), (147, 22642), (155, 22675), (165, 22723), (192, 22813), (215, 22951),

Gene: Gandalph_20 Start: 21851, Stop: 23053, Start Num: 6
Candidate Starts for Gandalph_20:
(Start: 4 @21809 has 3 MA's), (Start: 6 @21851 has 77 MA's), (9, 21890), (17, 21965), (18, 21971), (19, 21980), (22, 22010), (27, 22031), (31, 22067), (33, 22073), (36, 22091), (45, 22154), (50, 22193), (57, 22232), (61, 22256), (64, 22274), (65, 22280), (69, 22307), (73, 22340), (75, 22349), (81, 22376), (85, 22394), (87, 22400), (92, 22424), (94, 22433), (100, 22463), (101, 22466), (111, 22538), (113, 22544), (125, 22601), (127, 22610), (137, 22652), (138, 22658), (153, 22724), (158, 22742), (175, 22817), (187, 22850), (197, 22910), (201, 22940), (205, 22955), (206, 22961), (211, 22988),

Gene: Geralt_20 Start: 21816, Stop: 22979, Start Num: 5
Candidate Starts for Geralt_20:
(Start: 4 @21780 has 3 MA's), (Start: 5 @21816 has 135 MA's), (Start: 6 @21822 has 77 MA's), (11, 21882), (14, 21921), (17, 21939), (18, 21945), (19, 21954), (20, 21969), (24, 21987), (27, 22005), (36, 22065), (39, 22092), (41, 22110), (43, 22122), (50, 22167), (54, 22185), (65, 22251), (73, 22311), (87, 22371), (92, 22395), (93, 22398), (123, 22533), (125, 22554), (126, 22560), (127, 22563), (138, 22611), (140, 22620), (148, 22653), (155, 22680), (161, 22710), (183, 22794), (207, 22896), (213, 22929), (218, 22962),

Gene: GigiOuiOui_20 Start: 21950, Stop: 23110, Start Num: 6
Candidate Starts for GigiOuiOui_20:
(Start: 3 @21848 has 1 MA's), (Start: 4 @21908 has 3 MA's), (Start: 6 @21950 has 77 MA's), (11, 22010), (18, 22073), (19, 22082), (21, 22109), (24, 22115), (27, 22133), (32, 22172), (36, 22193), (39, 22220), (41, 22238), (43, 22250), (50, 22295), (65, 22379), (73, 22439), (87, 22499), (89, 22508), (94, 22532), (98, 22553), (111, 22619), (125, 22679), (147, 22775), (155, 22808), (165, 22856), (192, 22946), (215, 23084),

Gene: Girafales_21 Start: 21644, Stop: 22807, Start Num: 5
Candidate Starts for Girafales_21:
(Start: 4 @21608 has 3 MA's), (Start: 5 @21644 has 135 MA's), (Start: 6 @21650 has 77 MA's), (11, 21710), (17, 21767), (18, 21773), (20, 21797), (24, 21815), (27, 21833), (32, 21872), (36, 21893), (39, 21920), (41, 21938), (45, 21956), (50, 21995), (65, 22079), (73, 22139), (87, 22199), (92, 22223), (93, 22226), (123, 22361), (125, 22382), (127, 22391), (138, 22439), (148, 22481), (155, 22508), (161, 22538), (183, 22622), (207, 22724), (213, 22757), (218, 22790),

Gene: Girr_20 Start: 21752, Stop: 22954, Start Num: 4
Candidate Starts for Girr_20:
(Start: 4 @21752 has 3 MA's), (Start: 5 @21788 has 135 MA's), (Start: 6 @21794 has 77 MA's), (11, 21854), (18, 21917), (19, 21926), (21, 21953), (24, 21959), (27, 21977), (32, 22016), (36, 22037), (39, 22064), (41, 22082), (43, 22094), (50, 22139), (65, 22223), (73, 22283), (87, 22343), (89, 22352), (94, 22376), (98, 22397), (111, 22463), (125, 22523), (138, 22580), (147, 22619), (155, 22652), (165, 22700), (192, 22790), (215, 22928),

Gene: Giuseppe_32 Start: 28626, Stop: 29492, Start Num: 42
Candidate Starts for Giuseppe_32:
(Start: 42 @28626 has 23 MA's), (63, 28758), (68, 28785), (77, 28839), (84, 28866), (86, 28878), (109, 28995), (117, 29013), (127, 29070), (129, 29079), (130, 29082), (138, 29118), (157, 29196), (162, 29223), (166, 29241), (174, 29277), (178, 29295), (197, 29358), (208, 29418),

Gene: Gonephishing_36 Start: 32334, Stop: 33494, Start Num: 6
Candidate Starts for Gonephishing_36:

(1, 31842), (Start: 3 @32232 has 1 MA's), (Start: 4 @32292 has 3 MA's), (Start: 6 @32334 has 77 MA's), (11, 32394), (18, 32457), (19, 32466), (21, 32493), (24, 32499), (27, 32517), (32, 32556), (39, 32604), (41, 32622), (43, 32634), (50, 32679), (65, 32763), (73, 32823), (82, 32862), (83, 32865), (87, 32883), (89, 32892), (94, 32916), (98, 32937), (111, 33003), (125, 33063), (138, 33120), (147, 33159), (155, 33192), (165, 33240), (192, 33330), (215, 33468),

Gene: Gorge_20 Start: 21812, Stop: 23014, Start Num: 6
Candidate Starts for Gorge_20:
(Start: 4 @21770 has 3 MA's), (Start: 6 @21812 has 77 MA's), (9, 21851), (18, 21932), (19, 21941), (21, 21968), (22, 21971), (25, 21986), (27, 21992), (31, 22028), (33, 22034), (36, 22052), (50, 22154), (57, 22193), (61, 22217), (64, 22235), (65, 22241), (69, 22268), (71, 22277), (73, 22301), (75, 22310), (81, 22337), (85, 22355), (87, 22361), (94, 22394), (100, 22424), (101, 22427), (111, 22499), (113, 22505), (125, 22562), (127, 22571), (138, 22619), (153, 22685), (158, 22703), (175, 22778), (187, 22811), (197, 22871), (201, 22901), (205, 22916), (206, 22922), (211, 22949),

Gene: Grimmer_21 Start: 22477, Stop: 23586, Start Num: 5
Candidate Starts for Grimmer_21:
(1, 21991), (Start: 3 @22381 has 1 MA's), (Start: 4 @22441 has 3 MA's), (Start: 5 @22477 has 135 MA's), (Start: 6 @22483 has 77 MA's), (17, 22543), (18, 22549), (19, 22558), (20, 22573), (24, 22591), (27, 22609), (31, 22645), (32, 22648), (36, 22669), (39, 22696), (50, 22771), (64, 22849), (73, 22915), (87, 22975), (98, 23029), (111, 23095), (125, 23155), (130, 23176), (138, 23212), (155, 23284), (165, 23332), (173, 23368), (215, 23560),

Gene: Gumball_31 Start: 28584, Stop: 29450, Start Num: 42
Candidate Starts for Gumball_31:
(Start: 42 @28584 has 23 MA's), (63, 28716), (68, 28743), (77, 28797), (84, 28824), (86, 28836), (109, 28953), (117, 28971), (127, 29028), (129, 29037), (130, 29040), (138, 29076), (157, 29154), (162, 29181), (166, 29199), (174, 29235), (178, 29253), (197, 29316), (208, 29376),

Gene: Guppsters_21 Start: 21995, Stop: 23197, Start Num: 6
Candidate Starts for Guppsters_21:
(Start: 4 @21953 has 3 MA's), (Start: 6 @21995 has 77 MA's), (9, 22034), (17, 22109), (18, 22115), (19, 22124), (21, 22151), (22, 22154), (25, 22169), (27, 22175), (31, 22211), (33, 22217), (36, 22235), (50, 22337), (57, 22376), (61, 22400), (64, 22418), (65, 22424), (69, 22451), (73, 22484), (75, 22493), (81, 22520), (85, 22538), (87, 22544), (92, 22568), (94, 22577), (100, 22607), (101, 22610), (111, 22682), (113, 22688), (125, 22745), (127, 22754), (137, 22796), (138, 22802), (153, 22868), (175, 22961), (187, 22994), (197, 23054), (201, 23084), (205, 23099), (211, 23132),

Gene: Hades_20 Start: 21844, Stop: 23046, Start Num: 6
Candidate Starts for Hades_20:
(Start: 4 @21802 has 3 MA's), (Start: 6 @21844 has 77 MA's), (9, 21883), (17, 21958), (18, 21964), (19, 21973), (22, 22003), (27, 22024), (31, 22060), (33, 22066), (36, 22084), (45, 22147), (50, 22186), (57, 22225), (61, 22249), (64, 22267), (65, 22273), (69, 22300), (73, 22333), (75, 22342), (81, 22369), (85, 22387), (87, 22393), (94, 22426), (100, 22456), (101, 22459), (111, 22531), (113, 22537), (125, 22594), (127, 22603), (138, 22651), (153, 22717), (158, 22735), (175, 22810), (187, 22843), (197, 22903), (201, 22933), (205, 22948), (206, 22954), (211, 22981),

Gene: Hamulus_20 Start: 21820, Stop: 22986, Start Num: 5
Candidate Starts for Hamulus_20:
(Start: 4 @21784 has 3 MA's), (Start: 5 @21820 has 135 MA's), (Start: 6 @21826 has 77 MA's), (11, 21886), (18, 21949), (19, 21958), (21, 21985), (24, 21991), (27, 22009), (32, 22048), (36, 22069), (39, 22096), (41, 22114), (43, 22126), (50, 22171), (65, 22255), (73, 22315), (83, 22357), (87, 22375), (89, 22384), (94, 22408), (98, 22429), (111, 22495), (125, 22555), (138, 22612), (147, 22651), (155,

22684), (165, 22732), (192, 22822), (201, 22879), (215, 22960),

Gene: Harley_20 Start: 21810, Stop: 22976, Start Num: 5
Candidate Starts for Harley_20:
(Start: 4 @21774 has 3 MA's), (Start: 5 @21810 has 135 MA's), (Start: 6 @21816 has 77 MA's), (11, 21876), (18, 21939), (20, 21963), (24, 21981), (27, 21999), (32, 22038), (36, 22059), (39, 22086), (41, 22104), (43, 22116), (50, 22161), (65, 22245), (73, 22305), (87, 22365), (94, 22398), (98, 22419), (111, 22485), (125, 22545), (147, 22641), (155, 22674), (165, 22722), (215, 22950),

Gene: Hawkeye_35 Start: 28736, Stop: 29704, Start Num: 30
Candidate Starts for Hawkeye_35:
(Start: 30 @28736 has 1 MA's), (34, 28748), (48, 28841), (53, 28877), (59, 28910), (70, 28979), (74, 29015), (76, 29021), (90, 29084), (94, 29102), (108, 29192), (125, 29252), (143, 29327), (163, 29417), (166, 29429), (177, 29474), (193, 29528), (200, 29579), (221, 29699),

Gene: Hegedechwinu_21 Start: 21665, Stop: 22831, Start Num: 5
Candidate Starts for Hegedechwinu_21:
(1, 21179), (Start: 3 @21569 has 1 MA's), (Start: 4 @21629 has 3 MA's), (Start: 5 @21665 has 135 MA's), (Start: 6 @21671 has 77 MA's), (11, 21731), (18, 21794), (19, 21803), (21, 21830), (24, 21836), (27, 21854), (32, 21893), (36, 21914), (39, 21941), (41, 21959), (43, 21971), (50, 22016), (65, 22100), (73, 22160), (82, 22199), (83, 22202), (87, 22220), (89, 22229), (94, 22253), (98, 22274), (111, 22340), (125, 22400), (138, 22457), (147, 22496), (155, 22529), (165, 22577), (192, 22667), (215, 22805),

Gene: Helpful_33 Start: 28634, Stop: 29500, Start Num: 42
Candidate Starts for Helpful_33:
(Start: 42 @28634 has 23 MA's), (63, 28766), (68, 28793), (77, 28847), (84, 28874), (86, 28886), (109, 29003), (117, 29021), (127, 29078), (129, 29087), (130, 29090), (138, 29126), (157, 29204), (162, 29231), (166, 29249), (174, 29285), (178, 29303), (197, 29366), (208, 29426),

Gene: Hlubikazi_20 Start: 21912, Stop: 23078, Start Num: 5
Candidate Starts for Hlubikazi_20:
(1, 21426), (Start: 3 @21816 has 1 MA's), (Start: 4 @21876 has 3 MA's), (Start: 5 @21912 has 135 MA's), (Start: 6 @21918 has 77 MA's), (11, 21978), (18, 22041), (19, 22050), (21, 22077), (24, 22083), (27, 22101), (32, 22140), (36, 22161), (39, 22188), (41, 22206), (43, 22218), (50, 22263), (65, 22347), (73, 22407), (83, 22449), (87, 22467), (89, 22476), (94, 22500), (98, 22521), (111, 22587), (125, 22647), (138, 22704), (147, 22743), (155, 22776), (165, 22824), (192, 22914), (215, 23052),

Gene: IMpilo_20 Start: 21847, Stop: 23013, Start Num: 5
Candidate Starts for IMpilo_20:
(Start: 3 @21751 has 1 MA's), (Start: 4 @21811 has 3 MA's), (Start: 5 @21847 has 135 MA's), (Start: 6 @21853 has 77 MA's), (11, 21913), (18, 21976), (19, 21985), (21, 22012), (24, 22018), (27, 22036), (32, 22075), (36, 22096), (39, 22123), (41, 22141), (43, 22153), (50, 22198), (65, 22282), (73, 22342), (83, 22384), (87, 22402), (89, 22411), (94, 22435), (98, 22456), (111, 22522), (125, 22582), (138, 22639), (147, 22678), (155, 22711), (165, 22759), (192, 22849), (201, 22906), (215, 22987),

Gene: IbOuu_20 Start: 21820, Stop: 22980, Start Num: 6
Candidate Starts for IbOuu_20:
(Start: 3 @21718 has 1 MA's), (Start: 4 @21778 has 3 MA's), (Start: 6 @21820 has 77 MA's), (11, 21880), (18, 21943), (19, 21952), (21, 21979), (24, 21985), (27, 22003), (32, 22042), (36, 22063), (39, 22090), (41, 22108), (43, 22120), (50, 22165), (65, 22249), (73, 22309), (83, 22351), (87, 22369), (89, 22378), (94, 22402), (98, 22423), (111, 22489), (125, 22549), (138, 22606), (147, 22645), (155, 22678), (165, 22726), (192, 22816), (215, 22954),

Gene: Ibhubesi_20 Start: 21810, Stop: 22982, Start Num: 6
Candidate Starts for Ibhubesi_20:
(Start: 4 @21768 has 3 MA's), (Start: 5 @21804 has 135 MA's), (Start: 6 @21810 has 77 MA's), (11, 21870), (18, 21933), (20, 21957), (24, 21975), (27, 21993), (32, 22032), (36, 22053), (39, 22080), (50, 22155), (54, 22173), (57, 22191), (64, 22233), (73, 22299), (87, 22359), (92, 22383), (103, 22428), (109, 22473), (111, 22479), (125, 22542), (127, 22551), (137, 22593), (151, 22653), (165, 22719), (171, 22749), (175, 22761), (176, 22767), (180, 22782), (181, 22785), (184, 22788), (187, 22794), (195, 22833), (205, 22884), (211, 22917), (215, 22956),

Gene: Inventum_20 Start: 21952, Stop: 23115, Start Num: 5
Candidate Starts for Inventum_20:
(Start: 4 @21916 has 3 MA's), (Start: 5 @21952 has 135 MA's), (Start: 6 @21958 has 77 MA's), (11, 22018), (14, 22057), (17, 22075), (18, 22081), (19, 22090), (20, 22105), (24, 22123), (27, 22141), (36, 22201), (39, 22228), (41, 22246), (43, 22258), (50, 22303), (54, 22321), (65, 22387), (73, 22447), (87, 22507), (92, 22531), (93, 22534), (123, 22669), (125, 22690), (126, 22696), (127, 22699), (138, 22747), (140, 22756), (148, 22789), (155, 22816), (161, 22846), (183, 22930), (207, 23032), (213, 23065), (218, 23098),

Gene: IrishSherpFalk_21 Start: 23174, Stop: 24340, Start Num: 5
Candidate Starts for IrishSherpFalk_21:
(Start: 3 @23078 has 1 MA's), (Start: 4 @23138 has 3 MA's), (Start: 5 @23174 has 135 MA's), (Start: 6 @23180 has 77 MA's), (11, 23240), (18, 23303), (19, 23312), (21, 23339), (24, 23345), (27, 23363), (32, 23402), (36, 23423), (39, 23450), (41, 23468), (43, 23480), (50, 23525), (65, 23609), (73, 23669), (82, 23708), (83, 23711), (87, 23729), (89, 23738), (94, 23762), (98, 23783), (111, 23849), (125, 23909), (138, 23966), (147, 24005), (155, 24038), (165, 24086), (192, 24176), (215, 24314),

Gene: JacoRen57_22 Start: 22778, Stop: 23644, Start Num: 42
Candidate Starts for JacoRen57_22:
(Start: 42 @22778 has 23 MA's), (66, 22919), (67, 22922), (85, 23027), (104, 23099), (117, 23165), (127, 23222), (138, 23270), (161, 23372), (178, 23447), (198, 23522), (210, 23579),

Gene: JalFarm20_22 Start: 22184, Stop: 23350, Start Num: 5
Candidate Starts for JalFarm20_22:
(Start: 3 @22088 has 1 MA's), (Start: 4 @22148 has 3 MA's), (Start: 5 @22184 has 135 MA's), (Start: 6 @22190 has 77 MA's), (11, 22250), (18, 22313), (19, 22322), (21, 22349), (24, 22355), (27, 22373), (32, 22412), (39, 22460), (41, 22478), (43, 22490), (50, 22535), (65, 22619), (73, 22679), (83, 22721), (87, 22739), (89, 22748), (94, 22772), (98, 22793), (111, 22859), (125, 22919), (138, 22976), (147, 23015), (155, 23048), (165, 23096), (192, 23186), (215, 23324),

Gene: James_20 Start: 21808, Stop: 23010, Start Num: 6
Candidate Starts for James_20:
(Start: 4 @21766 has 3 MA's), (Start: 6 @21808 has 77 MA's), (9, 21847), (18, 21928), (19, 21937), (21, 21964), (22, 21967), (25, 21982), (27, 21988), (31, 22024), (33, 22030), (36, 22048), (50, 22150), (57, 22189), (61, 22213), (64, 22231), (65, 22237), (69, 22264), (71, 22273), (73, 22297), (75, 22306), (81, 22333), (85, 22351), (87, 22357), (94, 22390), (100, 22420), (101, 22423), (111, 22495), (113, 22501), (125, 22558), (127, 22567), (138, 22615), (153, 22681), (158, 22699), (175, 22774), (187, 22807), (197, 22867), (201, 22897), (205, 22912), (206, 22918), (211, 22945),

Gene: Jant_20 Start: 21970, Stop: 23130, Start Num: 6
Candidate Starts for Jant_20:
(Start: 4 @21928 has 3 MA's), (Start: 5 @21964 has 135 MA's), (Start: 6 @21970 has 77 MA's), (11, 22030), (18, 22093), (20, 22117), (21, 22129), (24, 22135), (27, 22153), (32, 22192), (36, 22213), (39, 22240), (50, 22315), (54, 22333), (57, 22351), (62, 22381), (64, 22393), (73, 22459), (87, 22519), (94,

22552), (99, 22576), (109, 22633), (121, 22672), (125, 22702), (126, 22708), (137, 22753), (141, 22777), (159, 22843), (171, 22906), (180, 22939), (189, 22960), (205, 23032), (209, 23059), (212, 23077),

Gene: Jarcob_20 Start: 21843, Stop: 23045, Start Num: 6
Candidate Starts for Jarcob_20:
(Start: 4 @21801 has 3 MA's), (Start: 6 @21843 has 77 MA's), (9, 21882), (14, 21939), (18, 21963), (19, 21972), (21, 21999), (22, 22002), (25, 22017), (27, 22023), (31, 22059), (33, 22065), (36, 22083), (50, 22185), (57, 22224), (61, 22248), (64, 22266), (65, 22272), (69, 22299), (71, 22308), (73, 22332), (75, 22341), (81, 22368), (85, 22386), (87, 22392), (94, 22425), (100, 22455), (101, 22458), (111, 22530), (113, 22536), (125, 22593), (127, 22602), (138, 22650), (153, 22716), (158, 22734), (175, 22809), (187, 22842), (197, 22902), (201, 22932), (205, 22947), (206, 22953), (211, 22980),

Gene: Jinglebell_19 Start: 22045, Stop: 23220, Start Num: 5
Candidate Starts for Jinglebell_19:
(Start: 4 @22009 has 3 MA's), (Start: 5 @22045 has 135 MA's), (Start: 6 @22051 has 77 MA's), (11, 22111), (18, 22174), (19, 22183), (20, 22198), (21, 22210), (24, 22216), (25, 22228), (27, 22234), (32, 22273), (36, 22294), (38, 22315), (39, 22321), (41, 22339), (43, 22351), (50, 22396), (52, 22405), (60, 22441), (62, 22462), (65, 22480), (73, 22540), (87, 22600), (94, 22633), (111, 22720), (112, 22723), (113, 22726), (125, 22780), (137, 22831), (146, 22873), (150, 22885), (156, 22912), (159, 22924), (165, 22957), (176, 23005), (181, 23023), (205, 23122),

Gene: Job42_23 Start: 23499, Stop: 24665, Start Num: 5
Candidate Starts for Job42_23:
(Start: 3 @23403 has 1 MA's), (Start: 4 @23463 has 3 MA's), (Start: 5 @23499 has 135 MA's), (Start: 6 @23505 has 77 MA's), (11, 23565), (18, 23628), (19, 23637), (21, 23664), (24, 23670), (27, 23688), (32, 23727), (35, 23745), (36, 23748), (39, 23775), (41, 23793), (43, 23805), (50, 23850), (65, 23934), (73, 23994), (83, 24036), (87, 24054), (89, 24063), (94, 24087), (98, 24108), (111, 24174), (125, 24234), (138, 24291), (147, 24330), (155, 24363), (165, 24411), (192, 24501), (215, 24639),

Gene: JoeyJr_20 Start: 21988, Stop: 23151, Start Num: 5
Candidate Starts for JoeyJr_20:
(Start: 4 @21952 has 3 MA's), (Start: 5 @21988 has 135 MA's), (Start: 6 @21994 has 77 MA's), (11, 22054), (14, 22093), (17, 22111), (18, 22117), (19, 22126), (20, 22141), (24, 22159), (27, 22177), (36, 22237), (39, 22264), (41, 22282), (43, 22294), (50, 22339), (54, 22357), (65, 22423), (73, 22483), (87, 22543), (92, 22567), (93, 22570), (123, 22705), (125, 22726), (126, 22732), (127, 22735), (138, 22783), (140, 22792), (148, 22825), (155, 22852), (161, 22882), (183, 22966), (207, 23068), (213, 23101), (218, 23134),

Gene: Juice456_22 Start: 22936, Stop: 24102, Start Num: 5
Candidate Starts for Juice456_22:
(Start: 3 @22840 has 1 MA's), (Start: 4 @22900 has 3 MA's), (Start: 5 @22936 has 135 MA's), (Start: 6 @22942 has 77 MA's), (11, 23002), (18, 23065), (19, 23074), (21, 23101), (24, 23107), (27, 23125), (32, 23164), (36, 23185), (39, 23212), (41, 23230), (43, 23242), (50, 23287), (65, 23371), (73, 23431), (83, 23473), (87, 23491), (89, 23500), (94, 23524), (98, 23545), (111, 23611), (125, 23671), (138, 23728), (147, 23767), (155, 23800), (165, 23848), (192, 23938), (215, 24076),

Gene: Juniper1_20 Start: 21808, Stop: 22974, Start Num: 5
Candidate Starts for Juniper1_20:
(Start: 4 @21772 has 3 MA's), (Start: 5 @21808 has 135 MA's), (Start: 6 @21814 has 77 MA's), (11, 21874), (18, 21937), (20, 21961), (21, 21973), (24, 21979), (27, 21997), (31, 22033), (32, 22036), (36, 22057), (39, 22084), (50, 22159), (54, 22177), (57, 22195), (62, 22225), (64, 22237), (73, 22303), (87, 22363), (94, 22396), (95, 22399), (99, 22420), (109, 22477), (121, 22516), (125, 22546), (126, 22552),

(137, 22597), (141, 22621), (159, 22687), (171, 22750), (180, 22783), (189, 22804), (205, 22876), (209, 22903), (212, 22921),

Gene: KandZ_32 Start: 28734, Stop: 29600, Start Num: 42
Candidate Starts for KandZ_32:
(Start: 42 @28734 has 23 MA's), (63, 28866), (68, 28893), (77, 28947), (84, 28974), (86, 28986), (109, 29103), (117, 29121), (127, 29178), (129, 29187), (130, 29190), (138, 29226), (157, 29304), (162, 29331), (166, 29349), (174, 29385), (178, 29403), (197, 29466), (208, 29526),

Gene: Karhdo_20 Start: 21945, Stop: 23111, Start Num: 5
Candidate Starts for Karhdo_20:
(Start: 4 @21909 has 3 MA's), (Start: 5 @21945 has 135 MA's), (Start: 6 @21951 has 77 MA's), (11, 22011), (18, 22074), (19, 22083), (21, 22110), (24, 22116), (27, 22134), (32, 22173), (39, 22221), (41, 22239), (43, 22251), (50, 22296), (65, 22380), (73, 22440), (83, 22482), (87, 22500), (94, 22533), (98, 22554), (111, 22620), (125, 22680), (138, 22737), (147, 22776), (155, 22809), (192, 22947), (215, 23085),

Gene: Kimberlium_22 Start: 22936, Stop: 24102, Start Num: 5
Candidate Starts for Kimberlium_22:
(Start: 3 @22840 has 1 MA's), (Start: 4 @22900 has 3 MA's), (Start: 5 @22936 has 135 MA's), (Start: 6 @22942 has 77 MA's), (11, 23002), (18, 23065), (19, 23074), (21, 23101), (24, 23107), (27, 23125), (32, 23164), (36, 23185), (39, 23212), (41, 23230), (43, 23242), (50, 23287), (65, 23371), (73, 23431), (83, 23473), (87, 23491), (89, 23500), (94, 23524), (98, 23545), (111, 23611), (125, 23671), (138, 23728), (147, 23767), (155, 23800), (165, 23848), (192, 23938), (215, 24076),

Gene: KingJulian_20 Start: 21854, Stop: 23020, Start Num: 5
Candidate Starts for KingJulian_20:
(Start: 3 @21758 has 1 MA's), (Start: 4 @21818 has 3 MA's), (Start: 5 @21854 has 135 MA's), (Start: 6 @21860 has 77 MA's), (11, 21920), (18, 21983), (19, 21992), (21, 22019), (24, 22025), (27, 22043), (32, 22082), (36, 22103), (39, 22130), (41, 22148), (43, 22160), (50, 22205), (65, 22289), (73, 22349), (83, 22391), (87, 22409), (89, 22418), (94, 22442), (98, 22463), (111, 22529), (125, 22589), (138, 22646), (147, 22685), (155, 22718), (165, 22766), (192, 22856), (215, 22994),

Gene: KingMidas_21 Start: 23121, Stop: 24284, Start Num: 5
Candidate Starts for KingMidas_21:
(Start: 4 @23085 has 3 MA's), (Start: 5 @23121 has 135 MA's), (Start: 6 @23127 has 77 MA's), (11, 23187), (14, 23226), (17, 23244), (18, 23250), (19, 23259), (20, 23274), (24, 23292), (27, 23310), (28, 23313), (31, 23346), (32, 23349), (36, 23370), (39, 23397), (41, 23415), (43, 23427), (50, 23472), (54, 23490), (65, 23556), (73, 23616), (87, 23676), (92, 23700), (93, 23703), (123, 23838), (125, 23859), (126, 23865), (127, 23868), (138, 23916), (140, 23925), (148, 23958), (155, 23985), (161, 24015), (183, 24099), (207, 24201), (213, 24234), (218, 24267),

Gene: Konstantine_36 Start: 30931, Stop: 31899, Start Num: 29
Candidate Starts for Konstantine_36:
(23, 30880), (Start: 29 @30931 has 10 MA's), (40, 31003), (47, 31030), (53, 31072), (59, 31105), (79, 31231), (90, 31279), (119, 31423), (125, 31459), (149, 31561), (166, 31642), (173, 31675), (181, 31702), (190, 31720), (212, 31849), (220, 31888),

Gene: Krakatau_21 Start: 22518, Stop: 23678, Start Num: 6
Candidate Starts for Krakatau_21:
(Start: 4 @22476 has 3 MA's), (Start: 5 @22512 has 135 MA's), (Start: 6 @22518 has 77 MA's), (11, 22578), (18, 22641), (19, 22650), (20, 22665), (24, 22683), (27, 22701), (32, 22740), (36, 22761), (39, 22788), (41, 22806), (43, 22818), (50, 22863), (65, 22947), (73, 23007), (87, 23067), (94, 23100), (98,

23121), (111, 23187), (125, 23247), (138, 23304), (155, 23376), (165, 23424), (192, 23514), (215, 23652),

Gene: KristaRAM_21 Start: 22487, Stop: 23653, Start Num: 5
Candidate Starts for KristaRAM_21:
(1, 22001), (Start: 3 @22391 has 1 MA's), (Start: 4 @22451 has 3 MA's), (Start: 5 @22487 has 135 MA's), (Start: 6 @22493 has 77 MA's), (11, 22553), (18, 22616), (19, 22625), (21, 22652), (24, 22658), (27, 22676), (32, 22715), (36, 22736), (39, 22763), (41, 22781), (43, 22793), (50, 22838), (65, 22922), (73, 22982), (83, 23024), (87, 23042), (89, 23051), (94, 23075), (98, 23096), (111, 23162), (125, 23222), (138, 23279), (147, 23318), (155, 23351), (165, 23399), (192, 23489), (215, 23627),

Gene: Latretium_21 Start: 22494, Stop: 23660, Start Num: 5
Candidate Starts for Latretium_21:
(Start: 4 @22458 has 3 MA's), (Start: 5 @22494 has 135 MA's), (Start: 6 @22500 has 77 MA's), (11, 22560), (17, 22617), (18, 22623), (19, 22632), (20, 22647), (21, 22659), (24, 22665), (27, 22683), (31, 22719), (32, 22722), (36, 22743), (39, 22770), (50, 22845), (64, 22923), (73, 22989), (83, 23031), (87, 23049), (89, 23058), (94, 23082), (98, 23103), (111, 23169), (125, 23229), (138, 23286), (147, 23325), (155, 23358), (165, 23406), (192, 23496), (215, 23634),

Gene: Leozinho_21 Start: 21660, Stop: 22826, Start Num: 5
Candidate Starts for Leozinho_21:
(Start: 4 @21624 has 3 MA's), (Start: 5 @21660 has 135 MA's), (Start: 6 @21666 has 77 MA's), (11, 21726), (18, 21789), (19, 21798), (21, 21825), (24, 21831), (27, 21849), (32, 21888), (36, 21909), (39, 21936), (41, 21954), (43, 21966), (50, 22011), (65, 22095), (73, 22155), (87, 22215), (89, 22224), (94, 22248), (98, 22269), (111, 22335), (125, 22395), (147, 22491), (155, 22524), (165, 22572), (192, 22662), (215, 22800),

Gene: Leperchaun_20 Start: 21825, Stop: 23027, Start Num: 6
Candidate Starts for Leperchaun_20:
(Start: 4 @21783 has 3 MA's), (Start: 6 @21825 has 77 MA's), (9, 21864), (18, 21945), (19, 21954), (22, 21984), (27, 22005), (31, 22041), (33, 22047), (36, 22065), (50, 22167), (57, 22206), (64, 22248), (65, 22254), (69, 22281), (73, 22314), (75, 22323), (81, 22350), (85, 22368), (87, 22374), (92, 22398), (94, 22407), (100, 22437), (101, 22440), (111, 22512), (113, 22518), (125, 22575), (127, 22584), (137, 22626), (138, 22632), (153, 22698), (158, 22716), (175, 22791), (187, 22824), (197, 22884), (201, 22914), (205, 22929), (206, 22935), (211, 22962),

Gene: LilMoolah_20 Start: 21942, Stop: 23144, Start Num: 6
Candidate Starts for LilMoolah_20:
(Start: 4 @21900 has 3 MA's), (Start: 6 @21942 has 77 MA's), (9, 21981), (18, 22062), (19, 22071), (21, 22098), (22, 22101), (25, 22116), (27, 22122), (31, 22158), (33, 22164), (36, 22182), (50, 22284), (57, 22323), (61, 22347), (64, 22365), (65, 22371), (69, 22398), (71, 22407), (73, 22431), (75, 22440), (81, 22467), (85, 22485), (87, 22491), (94, 22524), (100, 22554), (101, 22557), (111, 22629), (113, 22635), (125, 22692), (127, 22701), (138, 22749), (153, 22815), (158, 22833), (175, 22908), (187, 22941), (197, 23001), (201, 23031), (205, 23046), (206, 23052), (211, 23079),

Gene: LittleE_41 Start: 35407, Stop: 36573, Start Num: 5
Candidate Starts for LittleE_41:
(Start: 3 @35311 has 1 MA's), (Start: 4 @35371 has 3 MA's), (Start: 5 @35407 has 135 MA's), (Start: 6 @35413 has 77 MA's), (11, 35473), (18, 35536), (19, 35545), (21, 35572), (24, 35578), (27, 35596), (32, 35635), (36, 35656), (39, 35683), (41, 35701), (43, 35713), (50, 35758), (65, 35842), (73, 35902), (82, 35941), (83, 35944), (87, 35962), (89, 35971), (94, 35995), (98, 36016), (111, 36082), (125, 36142), (138, 36199), (147, 36238), (155, 36271), (165, 36319), (192, 36409), (215, 36547),

Gene: LittleShirley_21 Start: 21635, Stop: 22801, Start Num: 5
Candidate Starts for LittleShirley_21:
(Start: 4 @21599 has 3 MA's), (Start: 5 @21635 has 135 MA's), (Start: 6 @21641 has 77 MA's), (11, 21701), (18, 21764), (19, 21773), (21, 21800), (24, 21806), (27, 21824), (32, 21863), (36, 21884), (39, 21911), (41, 21929), (43, 21941), (50, 21986), (65, 22070), (73, 22130), (82, 22169), (83, 22172), (87, 22190), (89, 22199), (94, 22223), (98, 22244), (111, 22310), (125, 22370), (138, 22427), (147, 22466), (155, 22499), (165, 22547), (192, 22637), (215, 22775),

Gene: Lizziana_20 Start: 21817, Stop: 23019, Start Num: 6
Candidate Starts for Lizziana_20:
(Start: 4 @21775 has 3 MA's), (Start: 6 @21817 has 77 MA's), (9, 21856), (14, 21913), (18, 21937), (19, 21946), (21, 21973), (22, 21976), (25, 21991), (27, 21997), (31, 22033), (33, 22039), (36, 22057), (50, 22159), (57, 22198), (61, 22222), (64, 22240), (65, 22246), (69, 22273), (71, 22282), (73, 22306), (75, 22315), (81, 22342), (85, 22360), (87, 22366), (94, 22399), (100, 22429), (101, 22432), (111, 22504), (113, 22510), (125, 22567), (127, 22576), (138, 22624), (153, 22690), (158, 22708), (175, 22783), (187, 22816), (197, 22876), (201, 22906), (205, 22921), (206, 22927), (211, 22954),

Gene: Llama_20 Start: 22051, Stop: 23220, Start Num: 6
Candidate Starts for Llama_20:
(Start: 4 @22009 has 3 MA's), (Start: 5 @22045 has 135 MA's), (Start: 6 @22051 has 77 MA's), (11, 22111), (18, 22174), (19, 22183), (20, 22198), (21, 22210), (24, 22216), (25, 22228), (27, 22234), (32, 22273), (36, 22294), (38, 22315), (39, 22321), (41, 22339), (43, 22351), (50, 22396), (52, 22405), (60, 22441), (62, 22462), (65, 22480), (73, 22540), (87, 22600), (94, 22633), (111, 22720), (112, 22723), (113, 22726), (125, 22780), (137, 22831), (146, 22873), (150, 22885), (156, 22912), (159, 22924), (165, 22957), (176, 23005), (181, 23023), (205, 23122),

Gene: Llij_20 Start: 21800, Stop: 22966, Start Num: 5
Candidate Starts for Llij_20:
(1, 21314), (Start: 3 @21704 has 1 MA's), (Start: 4 @21764 has 3 MA's), (Start: 5 @21800 has 135 MA's), (Start: 6 @21806 has 77 MA's), (11, 21866), (18, 21929), (19, 21938), (21, 21965), (24, 21971), (27, 21989), (32, 22028), (36, 22049), (39, 22076), (41, 22094), (43, 22106), (50, 22151), (65, 22235), (73, 22295), (82, 22334), (83, 22337), (87, 22355), (89, 22364), (94, 22388), (98, 22409), (111, 22475), (125, 22535), (138, 22592), (147, 22631), (155, 22664), (165, 22712), (192, 22802), (215, 22940),

Gene: Lorde_21 Start: 21636, Stop: 22802, Start Num: 5
Candidate Starts for Lorde_21:
(1, 21150), (Start: 3 @21540 has 1 MA's), (Start: 4 @21600 has 3 MA's), (Start: 5 @21636 has 135 MA's), (Start: 6 @21642 has 77 MA's), (11, 21702), (18, 21765), (19, 21774), (21, 21801), (24, 21807), (27, 21825), (32, 21864), (36, 21885), (39, 21912), (41, 21930), (43, 21942), (50, 21987), (65, 22071), (73, 22131), (82, 22170), (83, 22173), (87, 22191), (89, 22200), (94, 22224), (98, 22245), (111, 22311), (125, 22371), (138, 22428), (147, 22467), (155, 22500), (165, 22548), (192, 22638), (215, 22776),

Gene: Lucia_21 Start: 21859, Stop: 23061, Start Num: 6
Candidate Starts for Lucia_21:
(Start: 4 @21817 has 3 MA's), (Start: 6 @21859 has 77 MA's), (9, 21898), (11, 21916), (14, 21955), (16, 21961), (17, 21973), (18, 21979), (27, 22039), (31, 22075), (33, 22081), (36, 22099), (50, 22201), (57, 22240), (61, 22264), (64, 22282), (65, 22288), (69, 22315), (73, 22348), (75, 22357), (81, 22384), (85, 22402), (87, 22408), (94, 22441), (100, 22471), (101, 22474), (111, 22546), (113, 22552), (125, 22609), (127, 22618), (138, 22666), (153, 22732), (158, 22750), (175, 22825), (187, 22858), (197, 22918), (201, 22948), (205, 22963), (206, 22969), (211, 22996),

Gene: LunaBlu_21 Start: 21900, Stop: 23060, Start Num: 6
Candidate Starts for LunaBlu_21:

(1, 21408), (Start: 3 @21798 has 1 MA's), (Start: 4 @21858 has 3 MA's), (Start: 6 @21900 has 77 MA's), (11, 21960), (18, 22023), (19, 22032), (21, 22059), (24, 22065), (27, 22083), (32, 22122), (36, 22143), (39, 22170), (41, 22188), (43, 22200), (50, 22245), (65, 22329), (73, 22389), (83, 22431), (87, 22449), (94, 22482), (98, 22503), (111, 22569), (125, 22629), (138, 22686), (147, 22725), (155, 22758), (165, 22806), (215, 23034),

Gene: Mahavrat_20 Start: 21805, Stop: 22971, Start Num: 5
Candidate Starts for Mahavrat_20:
(Start: 4 @21769 has 3 MA's), (Start: 5 @21805 has 135 MA's), (Start: 6 @21811 has 77 MA's), (11, 21871), (18, 21934), (20, 21958), (21, 21970), (24, 21976), (27, 21994), (31, 22030), (32, 22033), (36, 22054), (39, 22081), (50, 22156), (54, 22174), (57, 22192), (62, 22222), (64, 22234), (73, 22300), (87, 22360), (94, 22393), (99, 22417), (109, 22474), (121, 22513), (125, 22543), (126, 22549), (137, 22594), (141, 22618), (159, 22684), (171, 22747), (180, 22780), (189, 22801), (205, 22873), (209, 22900), (212, 22918),

Gene: Mandlovu_20 Start: 21912, Stop: 23021, Start Num: 5
Candidate Starts for Mandlovu_20:
(1, 21426), (Start: 3 @21816 has 1 MA's), (Start: 4 @21876 has 3 MA's), (Start: 5 @21912 has 135 MA's), (Start: 6 @21918 has 77 MA's), (18, 21984), (19, 21993), (21, 22020), (24, 22026), (27, 22044), (32, 22083), (36, 22104), (39, 22131), (41, 22149), (43, 22161), (50, 22206), (65, 22290), (73, 22350), (83, 22392), (87, 22410), (89, 22419), (94, 22443), (98, 22464), (111, 22530), (125, 22590), (138, 22647), (147, 22686), (155, 22719), (165, 22767), (192, 22857), (215, 22995),

Gene: Mantra_20 Start: 21913, Stop: 23079, Start Num: 5
Candidate Starts for Mantra_20:
(Start: 4 @21877 has 3 MA's), (Start: 5 @21913 has 135 MA's), (Start: 6 @21919 has 77 MA's), (11, 21979), (18, 22042), (19, 22051), (21, 22078), (24, 22084), (27, 22102), (32, 22141), (36, 22162), (39, 22189), (41, 22207), (43, 22219), (50, 22264), (65, 22348), (73, 22408), (87, 22468), (89, 22477), (94, 22501), (98, 22522), (111, 22588), (125, 22648), (147, 22744), (155, 22777), (165, 22825), (192, 22915), (215, 23053),

Gene: Maravista_20 Start: 21760, Stop: 22926, Start Num: 5
Candidate Starts for Maravista_20:
(Start: 3 @21664 has 1 MA's), (Start: 4 @21724 has 3 MA's), (Start: 5 @21760 has 135 MA's), (Start: 6 @21766 has 77 MA's), (11, 21826), (18, 21889), (19, 21898), (21, 21925), (24, 21931), (27, 21949), (32, 21988), (36, 22009), (39, 22036), (41, 22054), (43, 22066), (50, 22111), (65, 22195), (73, 22255), (82, 22294), (83, 22297), (87, 22315), (89, 22324), (94, 22348), (98, 22369), (111, 22435), (125, 22495), (138, 22552), (147, 22591), (155, 22624), (165, 22672), (192, 22762), (215, 22900),

Gene: Marker_21 Start: 21663, Stop: 22829, Start Num: 5
Candidate Starts for Marker_21:
(Start: 3 @21567 has 1 MA's), (Start: 4 @21627 has 3 MA's), (Start: 5 @21663 has 135 MA's), (Start: 6 @21669 has 77 MA's), (11, 21729), (18, 21792), (19, 21801), (21, 21828), (24, 21834), (27, 21852), (32, 21891), (36, 21912), (39, 21939), (41, 21957), (43, 21969), (50, 22014), (65, 22098), (73, 22158), (83, 22200), (87, 22218), (89, 22227), (94, 22251), (98, 22272), (111, 22338), (125, 22398), (138, 22455), (147, 22494), (155, 22527), (165, 22575), (192, 22665), (215, 22803),

Gene: Martik_20 Start: 21844, Stop: 23046, Start Num: 6
Candidate Starts for Martik_20:
(Start: 4 @21802 has 3 MA's), (Start: 6 @21844 has 77 MA's), (9, 21883), (14, 21940), (18, 21964), (19, 21973), (21, 22000), (22, 22003), (25, 22018), (27, 22024), (31, 22060), (33, 22066), (36, 22084), (50, 22186), (57, 22225), (61, 22249), (64, 22267), (65, 22273), (69, 22300), (71, 22309), (73, 22333), (75, 22342), (81, 22369), (85, 22387), (87, 22393), (94, 22426), (100, 22456), (101, 22459), (111,

22531), (113, 22537), (125, 22594), (127, 22603), (138, 22651), (153, 22717), (158, 22735), (175, 22810), (187, 22843), (197, 22903), (201, 22933), (205, 22948), (206, 22954), (211, 22981),

Gene: Mattes_20 Start: 21808, Stop: 23010, Start Num: 6
Candidate Starts for Mattes_20:
(Start: 4 @21766 has 3 MA's), (Start: 6 @21808 has 77 MA's), (9, 21847), (18, 21928), (19, 21937), (21, 21964), (22, 21967), (25, 21982), (27, 21988), (31, 22024), (33, 22030), (36, 22048), (50, 22150), (57, 22189), (61, 22213), (64, 22231), (65, 22237), (69, 22264), (71, 22273), (73, 22297), (75, 22306), (81, 22333), (85, 22351), (87, 22357), (94, 22390), (100, 22420), (101, 22423), (111, 22495), (113, 22501), (125, 22558), (127, 22567), (138, 22615), (153, 22681), (158, 22699), (175, 22774), (187, 22807), (197, 22867), (201, 22897), (205, 22912), (206, 22918), (211, 22945),

Gene: Medindi_20 Start: 21810, Stop: 22976, Start Num: 5
Candidate Starts for Medindi_20:
(Start: 3 @21714 has 1 MA's), (Start: 4 @21774 has 3 MA's), (Start: 5 @21810 has 135 MA's), (Start: 6 @21816 has 77 MA's), (11, 21876), (18, 21939), (19, 21948), (21, 21975), (24, 21981), (27, 21999), (32, 22038), (36, 22059), (39, 22086), (41, 22104), (43, 22116), (50, 22161), (65, 22245), (73, 22305), (83, 22347), (87, 22365), (89, 22374), (94, 22398), (98, 22419), (111, 22485), (125, 22545), (138, 22602), (147, 22641), (155, 22674), (165, 22722), (192, 22812), (201, 22869), (215, 22950),

Gene: Megatron06_33 Start: 30263, Stop: 31231, Start Num: 29
Candidate Starts for Megatron06_33:
(23, 30212), (Start: 29 @30263 has 10 MA's), (40, 30335), (47, 30362), (53, 30404), (59, 30437), (79, 30563), (90, 30611), (119, 30755), (125, 30791), (149, 30893), (166, 30974), (173, 31007), (181, 31034), (190, 31052), (212, 31181), (220, 31220),

Gene: Melissauren88_20 Start: 21851, Stop: 23011, Start Num: 6
Candidate Starts for Melissauren88_20:
(Start: 3 @21749 has 1 MA's), (Start: 4 @21809 has 3 MA's), (Start: 6 @21851 has 77 MA's), (11, 21911), (18, 21974), (19, 21983), (21, 22010), (24, 22016), (27, 22034), (32, 22073), (39, 22121), (41, 22139), (43, 22151), (50, 22196), (65, 22280), (73, 22340), (83, 22382), (87, 22400), (89, 22409), (94, 22433), (98, 22454), (111, 22520), (125, 22580), (138, 22637), (147, 22676), (155, 22709), (165, 22757), (215, 22985),

Gene: MilleniumForce_21 Start: 22634, Stop: 23794, Start Num: 6
Candidate Starts for MilleniumForce_21:
(Start: 3 @22532 has 1 MA's), (Start: 4 @22592 has 3 MA's), (Start: 6 @22634 has 77 MA's), (11, 22694), (18, 22757), (19, 22766), (21, 22793), (24, 22799), (27, 22817), (32, 22856), (39, 22904), (41, 22922), (43, 22934), (50, 22979), (65, 23063), (73, 23123), (83, 23165), (87, 23183), (94, 23216), (98, 23237), (111, 23303), (125, 23363), (138, 23420), (147, 23459), (155, 23492), (165, 23540), (215, 23768),

Gene: Minerva_41 Start: 35650, Stop: 36852, Start Num: 6
Candidate Starts for Minerva_41:
(Start: 4 @35608 has 3 MA's), (Start: 6 @35650 has 77 MA's), (9, 35689), (11, 35707), (14, 35746), (16, 35752), (17, 35764), (18, 35770), (22, 35809), (27, 35830), (31, 35866), (33, 35872), (36, 35890), (39, 35917), (41, 35935), (45, 35953), (50, 35992), (57, 36031), (61, 36055), (64, 36073), (65, 36079), (69, 36106), (73, 36139), (75, 36148), (81, 36175), (85, 36193), (87, 36199), (92, 36223), (94, 36232), (100, 36262), (101, 36265), (111, 36337), (113, 36343), (125, 36400), (127, 36409), (137, 36451), (138, 36457), (153, 36523), (158, 36541), (175, 36616), (187, 36649), (197, 36709), (201, 36739), (205, 36754), (206, 36760), (211, 36787),

Gene: MinionDave_21 Start: 22497, Stop: 23663, Start Num: 5

Candidate Starts for MinionDave_21:
(Start: 3 @22401 has 1 MA's), (Start: 4 @22461 has 3 MA's), (Start: 5 @22497 has 135 MA's), (Start: 6 @22503 has 77 MA's), (11, 22563), (18, 22626), (19, 22635), (21, 22662), (24, 22668), (27, 22686), (32, 22725), (36, 22746), (39, 22773), (41, 22791), (43, 22803), (50, 22848), (65, 22932), (73, 22992), (83, 23034), (87, 23052), (89, 23061), (94, 23085), (98, 23106), (111, 23172), (125, 23232), (138, 23289), (147, 23328), (155, 23361), (165, 23409), (192, 23499), (215, 23637),

Gene: Minnie_21 Start: 22363, Stop: 23523, Start Num: 6
Candidate Starts for Minnie_21:
(Start: 3 @22261 has 1 MA's), (Start: 4 @22321 has 3 MA's), (Start: 6 @22363 has 77 MA's), (11, 22423), (18, 22486), (19, 22495), (21, 22522), (24, 22528), (27, 22546), (32, 22585), (36, 22606), (39, 22633), (41, 22651), (43, 22663), (50, 22708), (65, 22792), (73, 22852), (83, 22894), (87, 22912), (89, 22921), (94, 22945), (98, 22966), (111, 23032), (125, 23092), (138, 23149), (147, 23188), (155, 23221), (165, 23269), (215, 23497),

Gene: Misha28_21 Start: 21678, Stop: 22850, Start Num: 6
Candidate Starts for Misha28_21:
(Start: 4 @21636 has 3 MA's), (Start: 5 @21672 has 135 MA's), (Start: 6 @21678 has 77 MA's), (11, 21738), (18, 21801), (20, 21825), (21, 21837), (24, 21843), (27, 21861), (32, 21900), (36, 21921), (39, 21948), (45, 21984), (50, 22023), (54, 22041), (57, 22059), (62, 22089), (64, 22101), (73, 22167), (87, 22227), (92, 22251), (94, 22260), (103, 22296), (109, 22341), (111, 22347), (112, 22350), (124, 22404), (125, 22410), (129, 22428), (138, 22467), (149, 22512), (150, 22515), (159, 22554), (163, 22578), (165, 22587), (168, 22596), (184, 22656), (187, 22662),

Gene: MisterCuddles_20 Start: 21788, Stop: 22954, Start Num: 5
Candidate Starts for MisterCuddles_20:
(Start: 4 @21752 has 3 MA's), (Start: 5 @21788 has 135 MA's), (Start: 6 @21794 has 77 MA's), (11, 21854), (18, 21917), (19, 21926), (21, 21953), (24, 21959), (27, 21977), (32, 22016), (36, 22037), (39, 22064), (41, 22082), (43, 22094), (50, 22139), (65, 22223), (73, 22283), (87, 22343), (89, 22352), (94, 22376), (98, 22397), (111, 22463), (125, 22523), (138, 22580), (147, 22619), (155, 22652), (165, 22700), (192, 22790), (215, 22928),

Gene: Modragons_20 Start: 22051, Stop: 23220, Start Num: 6
Candidate Starts for Modragons_20:
(Start: 4 @22009 has 3 MA's), (Start: 5 @22045 has 135 MA's), (Start: 6 @22051 has 77 MA's), (11, 22111), (18, 22174), (19, 22183), (20, 22198), (21, 22210), (24, 22216), (25, 22228), (27, 22234), (32, 22273), (36, 22294), (38, 22315), (39, 22321), (41, 22339), (43, 22351), (50, 22396), (52, 22405), (60, 22441), (62, 22462), (65, 22480), (73, 22540), (87, 22600), (94, 22633), (111, 22720), (112, 22723), (113, 22726), (125, 22780), (137, 22831), (146, 22873), (150, 22885), (156, 22912), (159, 22924), (165, 22957), (176, 23005), (181, 23023), (205, 23122),

Gene: Moonbeam_21 Start: 22306, Stop: 23472, Start Num: 5
Candidate Starts for Moonbeam_21:
(Start: 4 @22270 has 3 MA's), (Start: 5 @22306 has 135 MA's), (Start: 6 @22312 has 77 MA's), (11, 22372), (18, 22435), (19, 22444), (21, 22471), (24, 22477), (27, 22495), (32, 22534), (36, 22555), (39, 22582), (41, 22600), (43, 22612), (50, 22657), (65, 22741), (73, 22801), (83, 22843), (87, 22861), (89, 22870), (94, 22894), (98, 22915), (111, 22981), (125, 23041), (138, 23098), (147, 23137), (155, 23170), (165, 23218), (192, 23308), (201, 23365), (215, 23446),

Gene: Mopey_32 Start: 28634, Stop: 29500, Start Num: 42
Candidate Starts for Mopey_32:
(Start: 42 @28634 has 23 MA's), (63, 28766), (68, 28793), (77, 28847), (84, 28874), (86, 28886), (109, 29003), (117, 29021), (127, 29078), (129, 29087), (130, 29090), (138, 29126), (157, 29204), (162,

29231), (166, 29249), (174, 29285), (178, 29303), (197, 29366), (208, 29426),

Gene: Mova_21 Start: 21665, Stop: 22831, Start Num: 5
Candidate Starts for Mova_21:
(1, 21179), (Start: 3 @21569 has 1 MA's), (Start: 4 @21629 has 3 MA's), (Start: 5 @21665 has 135 MA's), (Start: 6 @21671 has 77 MA's), (11, 21731), (18, 21794), (19, 21803), (21, 21830), (24, 21836), (27, 21854), (32, 21893), (36, 21914), (39, 21941), (41, 21959), (43, 21971), (50, 22016), (65, 22100), (73, 22160), (83, 22202), (87, 22220), (89, 22229), (94, 22253), (98, 22274), (111, 22340), (125, 22400), (138, 22457), (147, 22496), (155, 22529), (165, 22577), (215, 22805),

Gene: Mozy_21 Start: 21715, Stop: 22881, Start Num: 5
Candidate Starts for Mozy_21:
(Start: 4 @21679 has 3 MA's), (Start: 5 @21715 has 135 MA's), (Start: 6 @21721 has 77 MA's), (11, 21781), (18, 21844), (19, 21853), (20, 21868), (21, 21880), (24, 21886), (27, 21904), (31, 21940), (32, 21943), (36, 21964), (39, 21991), (41, 22009), (50, 22066), (64, 22144), (73, 22210), (87, 22270), (98, 22324), (111, 22390), (125, 22450), (138, 22507), (147, 22546), (155, 22579), (165, 22627), (192, 22717), (215, 22855),

Gene: MulchExplorer_22 Start: 22936, Stop: 24102, Start Num: 5
Candidate Starts for MulchExplorer_22:
(Start: 3 @22840 has 1 MA's), (Start: 4 @22900 has 3 MA's), (Start: 5 @22936 has 135 MA's), (Start: 6 @22942 has 77 MA's), (11, 23002), (18, 23065), (19, 23074), (21, 23101), (24, 23107), (27, 23125), (32, 23164), (36, 23185), (39, 23212), (41, 23230), (43, 23242), (50, 23287), (65, 23371), (73, 23431), (83, 23473), (87, 23491), (89, 23500), (94, 23524), (98, 23545), (111, 23611), (125, 23671), (138, 23728), (147, 23767), (155, 23800), (165, 23848), (192, 23938), (215, 24076),

Gene: Mutaforma13_20 Start: 21861, Stop: 23027, Start Num: 5
Candidate Starts for Mutaforma13_20:
(1, 21375), (Start: 3 @21765 has 1 MA's), (Start: 4 @21825 has 3 MA's), (Start: 5 @21861 has 135 MA's), (Start: 6 @21867 has 77 MA's), (11, 21927), (18, 21990), (19, 21999), (21, 22026), (24, 22032), (27, 22050), (32, 22089), (36, 22110), (39, 22137), (41, 22155), (43, 22167), (50, 22212), (65, 22296), (73, 22356), (83, 22398), (87, 22416), (89, 22425), (94, 22449), (98, 22470), (111, 22536), (125, 22596), (138, 22653), (147, 22692), (155, 22725), (165, 22773), (192, 22863), (215, 23001),

Gene: Mwanjiwa_20 Start: 21805, Stop: 22965, Start Num: 6
Candidate Starts for Mwanjiwa_20:
(Start: 4 @21763 has 3 MA's), (Start: 5 @21799 has 135 MA's), (Start: 6 @21805 has 77 MA's), (11, 21865), (18, 21928), (19, 21937), (21, 21964), (24, 21970), (27, 21988), (32, 22027), (36, 22048), (39, 22075), (41, 22093), (43, 22105), (50, 22150), (65, 22234), (73, 22294), (83, 22336), (87, 22354), (89, 22363), (94, 22387), (98, 22408), (111, 22474), (125, 22534), (138, 22591), (147, 22630), (155, 22663), (165, 22711), (192, 22801), (215, 22939),

Gene: Nebkiss_24 Start: 24337, Stop: 25536, Start Num: 4
Candidate Starts for Nebkiss_24:
(Start: 4 @24337 has 3 MA's), (Start: 7 @24382 has 2 MA's), (9, 24421), (11, 24439), (12, 24448), (17, 24496), (18, 24502), (19, 24511), (36, 24622), (45, 24685), (50, 24724), (54, 24742), (57, 24760), (64, 24802), (65, 24808), (71, 24844), (73, 24868), (81, 24904), (87, 24928), (94, 24961), (99, 24985), (109, 25042), (110, 25045), (111, 25048), (121, 25078), (125, 25108), (127, 25117), (137, 25159), (144, 25195), (164, 25279), (180, 25345), (188, 25360), (206, 25444), (216, 25516),

Gene: Nichirin_20 Start: 22010, Stop: 23185, Start Num: 5
Candidate Starts for Nichirin_20:

(Start: 3 @21914 has 1 MA's), (Start: 4 @21974 has 3 MA's), (Start: 5 @22010 has 135 MA's), (Start: 6 @22016 has 77 MA's), (11, 22076), (18, 22139), (20, 22163), (21, 22175), (24, 22181), (27, 22199), (32, 22238), (36, 22259), (39, 22286), (41, 22304), (43, 22316), (45, 22322), (50, 22361), (65, 22445), (73, 22505), (83, 22547), (87, 22565), (94, 22598), (103, 22634), (111, 22685), (112, 22688), (113, 22691), (125, 22745), (137, 22796), (146, 22838), (150, 22850), (156, 22877), (159, 22889), (165, 22922), (176, 22970), (181, 22988), (205, 23087),

Gene: Nimbo_20 Start: 21820, Stop: 22983, Start Num: 5
Candidate Starts for Nimbo_20:
(Start: 4 @21784 has 3 MA's), (Start: 5 @21820 has 135 MA's), (Start: 6 @21826 has 77 MA's), (11, 21886), (17, 21943), (18, 21949), (20, 21973), (24, 21991), (27, 22009), (32, 22048), (36, 22069), (39, 22096), (41, 22114), (45, 22132), (50, 22171), (65, 22255), (73, 22315), (87, 22375), (92, 22399), (93, 22402), (123, 22537), (125, 22558), (127, 22567), (138, 22615), (148, 22657), (155, 22684), (161, 22714), (207, 22900), (213, 22933), (218, 22966),

Gene: Nish23_32 Start: 29729, Stop: 30697, Start Num: 29
Candidate Starts for Nish23_32:
(23, 29678), (Start: 29 @29729 has 10 MA's), (40, 29801), (47, 29828), (53, 29870), (59, 29903), (79, 30029), (90, 30077), (119, 30221), (125, 30257), (149, 30359), (166, 30440), (173, 30473), (181, 30500), (190, 30518), (212, 30647), (220, 30686),

Gene: Nitzel_21 Start: 22547, Stop: 23713, Start Num: 5
Candidate Starts for Nitzel_21:
(Start: 4 @22511 has 3 MA's), (Start: 5 @22547 has 135 MA's), (Start: 6 @22553 has 77 MA's), (11, 22613), (18, 22676), (20, 22700), (21, 22712), (24, 22718), (27, 22736), (32, 22775), (36, 22796), (39, 22823), (41, 22841), (43, 22853), (50, 22898), (60, 22943), (65, 22982), (73, 23042), (87, 23102), (89, 23111), (94, 23135), (99, 23159), (110, 23219), (114, 23228), (116, 23231), (121, 23255), (122, 23258), (124, 23279), (125, 23285), (137, 23336), (138, 23342), (159, 23426), (172, 23489), (183, 23522), (185, 23525), (186, 23528), (191, 23543), (205, 23615), (206, 23621),

Gene: Nivrat_20 Start: 21816, Stop: 23018, Start Num: 6
Candidate Starts for Nivrat_20:
(Start: 4 @21774 has 3 MA's), (Start: 6 @21816 has 77 MA's), (9, 21855), (18, 21936), (19, 21945), (21, 21972), (22, 21975), (25, 21990), (27, 21996), (31, 22032), (33, 22038), (36, 22056), (50, 22158), (57, 22197), (61, 22221), (64, 22239), (65, 22245), (69, 22272), (71, 22281), (73, 22305), (75, 22314), (81, 22341), (85, 22359), (87, 22365), (94, 22398), (100, 22428), (101, 22431), (111, 22503), (113, 22509), (125, 22566), (127, 22575), (138, 22623), (153, 22689), (158, 22707), (175, 22782), (187, 22815), (197, 22875), (201, 22905), (205, 22920), (206, 22926), (211, 22953),

Gene: NormanBulbieJr_20 Start: 21831, Stop: 23033, Start Num: 6
Candidate Starts for NormanBulbieJr_20:
(Start: 4 @21789 has 3 MA's), (Start: 6 @21831 has 77 MA's), (9, 21870), (14, 21927), (18, 21951), (19, 21960), (21, 21987), (22, 21990), (25, 22005), (27, 22011), (31, 22047), (33, 22053), (36, 22071), (50, 22173), (57, 22212), (61, 22236), (64, 22254), (65, 22260), (69, 22287), (71, 22296), (73, 22320), (75, 22329), (81, 22356), (85, 22374), (87, 22380), (94, 22413), (100, 22443), (101, 22446), (111, 22518), (113, 22524), (125, 22581), (127, 22590), (138, 22638), (153, 22704), (158, 22722), (175, 22797), (187, 22830), (197, 22890), (201, 22920), (205, 22935), (206, 22941), (211, 22968),

Gene: Nova_32 Start: 29061, Stop: 29927, Start Num: 42
Candidate Starts for Nova_32:
(Start: 42 @29061 has 23 MA's), (63, 29193), (68, 29220), (77, 29274), (84, 29301), (86, 29313), (109, 29430), (117, 29448), (127, 29505), (129, 29514), (130, 29517), (138, 29553), (157, 29631), (162, 29658), (166, 29676), (174, 29712), (178, 29730), (197, 29793), (208, 29853),

Gene: Oaker_31 Start: 29987, Stop: 30955, Start Num: 29
Candidate Starts for Oaker_31:
(23, 29936), (Start: 29 @29987 has 10 MA's), (40, 30059), (47, 30086), (53, 30128), (59, 30161), (79, 30287), (90, 30335), (119, 30479), (125, 30515), (149, 30617), (166, 30698), (173, 30731), (181, 30758), (190, 30776), (209, 30887), (212, 30905), (220, 30944),

Gene: Ochi17_20 Start: 22051, Stop: 23220, Start Num: 6
Candidate Starts for Ochi17_20:
(Start: 4 @22009 has 3 MA's), (Start: 5 @22045 has 135 MA's), (Start: 6 @22051 has 77 MA's), (11, 22111), (18, 22174), (19, 22183), (20, 22198), (21, 22210), (24, 22216), (25, 22228), (27, 22234), (32, 22273), (36, 22294), (38, 22315), (39, 22321), (41, 22339), (43, 22351), (50, 22396), (52, 22405), (60, 22441), (62, 22462), (65, 22480), (73, 22540), (87, 22600), (94, 22633), (111, 22720), (112, 22723), (113, 22726), (125, 22780), (137, 22831), (146, 22873), (150, 22885), (156, 22912), (159, 22924), (165, 22957), (176, 23005), (181, 23023), (205, 23122),

Gene: OfUltron_20 Start: 22045, Stop: 23220, Start Num: 5
Candidate Starts for OfUltron_20:
(Start: 4 @22009 has 3 MA's), (Start: 5 @22045 has 135 MA's), (Start: 6 @22051 has 77 MA's), (11, 22111), (18, 22174), (19, 22183), (20, 22198), (21, 22210), (24, 22216), (25, 22228), (27, 22234), (32, 22273), (36, 22294), (38, 22315), (39, 22321), (41, 22339), (43, 22351), (50, 22396), (52, 22405), (60, 22441), (62, 22462), (65, 22480), (73, 22540), (87, 22600), (94, 22633), (111, 22720), (112, 22723), (113, 22726), (125, 22780), (137, 22831), (146, 22873), (150, 22885), (156, 22912), (159, 22924), (165, 22957), (176, 23005), (181, 23023), (205, 23122),

Gene: Oksu_21 Start: 21890, Stop: 23065, Start Num: 5
Candidate Starts for Oksu_21:
(Start: 4 @21854 has 3 MA's), (Start: 5 @21890 has 135 MA's), (Start: 6 @21896 has 77 MA's), (11, 21956), (18, 22019), (19, 22028), (20, 22043), (21, 22055), (24, 22061), (25, 22073), (27, 22079), (32, 22118), (36, 22139), (38, 22160), (39, 22166), (41, 22184), (43, 22196), (50, 22241), (52, 22250), (60, 22286), (62, 22307), (65, 22325), (73, 22385), (87, 22445), (94, 22478), (103, 22514), (112, 22568), (113, 22571), (125, 22625), (137, 22676), (146, 22718), (150, 22730), (156, 22757), (159, 22769), (165, 22802), (176, 22850), (181, 22868), (205, 22967),

Gene: OldBen_20 Start: 21790, Stop: 22953, Start Num: 5
Candidate Starts for OldBen_20:
(Start: 4 @21754 has 3 MA's), (Start: 5 @21790 has 135 MA's), (Start: 6 @21796 has 77 MA's), (11, 21856), (14, 21895), (17, 21913), (18, 21919), (19, 21928), (20, 21943), (24, 21961), (27, 21979), (36, 22039), (39, 22066), (41, 22084), (43, 22096), (50, 22141), (54, 22159), (65, 22225), (73, 22285), (87, 22345), (92, 22369), (93, 22372), (123, 22507), (125, 22528), (126, 22534), (127, 22537), (138, 22585), (140, 22594), (148, 22627), (155, 22654), (161, 22684), (183, 22768), (207, 22870), (213, 22903), (218, 22936),

Gene: OlympiaSaint_20 Start: 22031, Stop: 23233, Start Num: 6
Candidate Starts for OlympiaSaint_20:
(Start: 4 @21989 has 3 MA's), (Start: 6 @22031 has 77 MA's), (9, 22070), (14, 22127), (18, 22151), (19, 22160), (21, 22187), (22, 22190), (25, 22205), (27, 22211), (31, 22247), (33, 22253), (36, 22271), (50, 22373), (57, 22412), (61, 22436), (64, 22454), (65, 22460), (69, 22487), (71, 22496), (73, 22520), (75, 22529), (81, 22556), (85, 22574), (87, 22580), (94, 22613), (100, 22643), (101, 22646), (111, 22718), (113, 22724), (125, 22781), (127, 22790), (138, 22838), (153, 22904), (158, 22922), (175, 22997), (187, 23030), (197, 23090), (201, 23120), (205, 23135), (206, 23141), (211, 23168),

Gene: Omega_40 Start: 35872, Stop: 37032, Start Num: 6

Candidate Starts for Omega_40:
(Start: 4 @35830 has 3 MA's), (Start: 5 @35866 has 135 MA's), (Start: 6 @35872 has 77 MA's), (11, 35932), (18, 35995), (19, 36004), (21, 36031), (24, 36037), (27, 36055), (32, 36094), (36, 36115), (39, 36142), (41, 36160), (43, 36172), (50, 36217), (65, 36301), (73, 36361), (83, 36403), (87, 36421), (89, 36430), (94, 36454), (98, 36475), (111, 36541), (125, 36601), (138, 36658), (147, 36697), (155, 36730), (165, 36778), (215, 37006),

Gene: Optimus_39 Start: 35216, Stop: 36376, Start Num: 6
Candidate Starts for Optimus_39:
(1, 34724), (Start: 3 @35114 has 1 MA's), (Start: 4 @35174 has 3 MA's), (Start: 6 @35216 has 77 MA's), (11, 35276), (18, 35339), (19, 35348), (21, 35375), (24, 35381), (27, 35399), (32, 35438), (39, 35486), (41, 35504), (43, 35516), (50, 35561), (65, 35645), (73, 35705), (83, 35747), (87, 35765), (89, 35774), (94, 35798), (98, 35819), (111, 35885), (125, 35945), (138, 36002), (147, 36041), (155, 36074), (165, 36122), (192, 36212), (215, 36350),

Gene: Ovechkin_20 Start: 21850, Stop: 23010, Start Num: 6
Candidate Starts for Ovechkin_20:
(1, 21358), (Start: 3 @21748 has 1 MA's), (Start: 4 @21808 has 3 MA's), (Start: 6 @21850 has 77 MA's), (11, 21910), (18, 21973), (19, 21982), (21, 22009), (24, 22015), (27, 22033), (32, 22072), (39, 22120), (41, 22138), (43, 22150), (50, 22195), (65, 22279), (73, 22339), (83, 22381), (87, 22399), (94, 22432), (98, 22453), (111, 22519), (125, 22579), (138, 22636), (147, 22675), (155, 22708), (165, 22756), (215, 22984),

Gene: OwlsT2W_22 Start: 22203, Stop: 23405, Start Num: 6
Candidate Starts for OwlsT2W_22:
(Start: 4 @22161 has 3 MA's), (Start: 6 @22203 has 77 MA's), (9, 22242), (14, 22299), (17, 22317), (18, 22323), (19, 22332), (22, 22362), (27, 22383), (31, 22419), (33, 22425), (36, 22443), (45, 22506), (50, 22545), (57, 22584), (61, 22608), (64, 22626), (65, 22632), (69, 22659), (73, 22692), (75, 22701), (81, 22728), (85, 22746), (87, 22752), (92, 22776), (94, 22785), (100, 22815), (101, 22818), (111, 22890), (113, 22896), (125, 22953), (127, 22962), (137, 23004), (138, 23010), (153, 23076), (158, 23094), (175, 23169), (187, 23202), (197, 23262), (201, 23292), (205, 23307), (206, 23313), (211, 23340),

Gene: PBI1_32 Start: 28565, Stop: 29431, Start Num: 42
Candidate Starts for PBI1_32:
(Start: 42 @28565 has 23 MA's), (63, 28697), (68, 28724), (77, 28778), (84, 28805), (86, 28817), (109, 28934), (117, 28952), (127, 29009), (129, 29018), (130, 29021), (138, 29057), (157, 29135), (162, 29162), (166, 29180), (174, 29216), (178, 29234), (197, 29297), (208, 29357),

Gene: PHappiness_20 Start: 21798, Stop: 22961, Start Num: 5
Candidate Starts for PHappiness_20:
(Start: 4 @21762 has 3 MA's), (Start: 5 @21798 has 135 MA's), (Start: 6 @21804 has 77 MA's), (11, 21864), (14, 21903), (17, 21921), (18, 21927), (19, 21936), (20, 21951), (24, 21969), (27, 21987), (36, 22047), (39, 22074), (41, 22092), (43, 22104), (50, 22149), (54, 22167), (65, 22233), (73, 22293), (87, 22353), (92, 22377), (93, 22380), (123, 22515), (125, 22536), (126, 22542), (127, 22545), (138, 22593), (140, 22602), (148, 22635), (155, 22662), (161, 22692), (183, 22776), (207, 22878), (213, 22911), (218, 22944),

Gene: PLot_33 Start: 28637, Stop: 29503, Start Num: 42
Candidate Starts for PLot_33:
(Start: 42 @28637 has 23 MA's), (63, 28769), (68, 28796), (77, 28850), (84, 28877), (86, 28889), (109, 29006), (117, 29024), (127, 29081), (129, 29090), (130, 29093), (138, 29129), (157, 29207), (162, 29234), (166, 29252), (174, 29288), (178, 29306), (197, 29369), (208, 29429),

Gene: PMC_20 Start: 21800, Stop: 22966, Start Num: 5
Candidate Starts for PMC_20:
(1, 21314), (Start: 3 @21704 has 1 MA's), (Start: 4 @21764 has 3 MA's), (Start: 5 @21800 has 135 MA's), (Start: 6 @21806 has 77 MA's), (11, 21866), (18, 21929), (19, 21938), (21, 21965), (24, 21971), (27, 21989), (32, 22028), (36, 22049), (39, 22076), (41, 22094), (43, 22106), (50, 22151), (65, 22235), (73, 22295), (82, 22334), (83, 22337), (87, 22355), (89, 22364), (94, 22388), (98, 22409), (111, 22475), (125, 22535), (138, 22592), (147, 22631), (155, 22664), (165, 22712), (192, 22802), (215, 22940),

Gene: Pacc40_20 Start: 21988, Stop: 23151, Start Num: 5
Candidate Starts for Pacc40_20:
(Start: 4 @21952 has 3 MA's), (Start: 5 @21988 has 135 MA's), (Start: 6 @21994 has 77 MA's), (11, 22054), (14, 22093), (17, 22111), (18, 22117), (19, 22126), (20, 22141), (24, 22159), (27, 22177), (36, 22237), (39, 22264), (41, 22282), (43, 22294), (50, 22339), (54, 22357), (65, 22423), (73, 22483), (87, 22543), (92, 22567), (93, 22570), (123, 22705), (125, 22726), (126, 22732), (127, 22735), (138, 22783), (140, 22792), (148, 22825), (155, 22852), (161, 22882), (183, 22966), (207, 23068), (213, 23101), (218, 23134),

Gene: PatoPoderoso_20 Start: 21854, Stop: 23020, Start Num: 5
Candidate Starts for PatoPoderoso_20:
(Start: 3 @21758 has 1 MA's), (Start: 4 @21818 has 3 MA's), (Start: 5 @21854 has 135 MA's), (Start: 6 @21860 has 77 MA's), (11, 21920), (18, 21983), (19, 21992), (21, 22019), (24, 22025), (27, 22043), (32, 22082), (36, 22103), (39, 22130), (41, 22148), (43, 22160), (50, 22205), (65, 22289), (73, 22349), (83, 22391), (87, 22409), (89, 22418), (94, 22442), (98, 22463), (111, 22529), (125, 22589), (138, 22646), (147, 22685), (155, 22718), (165, 22766), (192, 22856), (215, 22994),

Gene: Penelope2018_32 Start: 28634, Stop: 29500, Start Num: 42
Candidate Starts for Penelope2018_32:
(Start: 42 @28634 has 23 MA's), (63, 28766), (68, 28793), (77, 28847), (84, 28874), (86, 28886), (109, 29003), (117, 29021), (127, 29078), (129, 29087), (130, 29090), (138, 29126), (157, 29204), (162, 29231), (166, 29249), (174, 29285), (178, 29303), (197, 29366), (208, 29426),

Gene: Peridot_21 Start: 21626, Stop: 22792, Start Num: 5
Candidate Starts for Peridot_21:
(Start: 4 @21590 has 3 MA's), (Start: 5 @21626 has 135 MA's), (Start: 6 @21632 has 77 MA's), (11, 21692), (18, 21755), (19, 21764), (21, 21791), (24, 21797), (27, 21815), (32, 21854), (36, 21875), (39, 21902), (41, 21920), (43, 21932), (50, 21977), (65, 22061), (73, 22121), (82, 22160), (83, 22163), (87, 22181), (89, 22190), (94, 22214), (98, 22235), (111, 22301), (125, 22361), (138, 22418), (147, 22457), (155, 22490), (165, 22538), (192, 22628), (215, 22766),

Gene: Phalaborwa_32 Start: 28658, Stop: 29524, Start Num: 42
Candidate Starts for Phalaborwa_32:
(Start: 42 @28658 has 23 MA's), (63, 28790), (77, 28871), (84, 28898), (91, 28931), (94, 28943), (95, 28946), (104, 28979), (115, 29042), (117, 29045), (129, 29111), (130, 29114), (134, 29135), (162, 29255), (169, 29288), (208, 29450),

Gene: Phalconet_20 Start: 21865, Stop: 23025, Start Num: 6
Candidate Starts for Phalconet_20:
(1, 21373), (Start: 3 @21763 has 1 MA's), (Start: 4 @21823 has 3 MA's), (Start: 6 @21865 has 77 MA's), (11, 21925), (18, 21988), (19, 21997), (21, 22024), (24, 22030), (27, 22048), (32, 22087), (36, 22108), (39, 22135), (41, 22153), (43, 22165), (50, 22210), (65, 22294), (73, 22354), (83, 22396), (87, 22414), (89, 22423), (94, 22447), (98, 22468), (111, 22534), (125, 22594), (138, 22651), (147, 22690), (155, 22723), (165, 22771), (192, 22861), (201, 22918), (215, 22999),

Gene: Phasih_21 Start: 22356, Stop: 23522, Start Num: 5
Candidate Starts for Phasih_21:
(Start: 4 @22320 has 3 MA's), (Start: 5 @22356 has 135 MA's), (Start: 6 @22362 has 77 MA's), (11, 22422), (18, 22485), (19, 22494), (21, 22521), (24, 22527), (27, 22545), (32, 22584), (36, 22605), (39, 22632), (41, 22650), (43, 22662), (50, 22707), (65, 22791), (73, 22851), (87, 22911), (89, 22920), (94, 22944), (98, 22965), (111, 23031), (125, 23091), (147, 23187), (155, 23220), (165, 23268), (192, 23358), (215, 23496),

Gene: Phatniss_21 Start: 22324, Stop: 23484, Start Num: 6
Candidate Starts for Phatniss_21:
(Start: 3 @22222 has 1 MA's), (Start: 4 @22282 has 3 MA's), (Start: 5 @22318 has 135 MA's), (Start: 6 @22324 has 77 MA's), (11, 22384), (18, 22447), (19, 22456), (21, 22483), (24, 22489), (27, 22507), (32, 22546), (36, 22567), (39, 22594), (41, 22612), (43, 22624), (50, 22669), (65, 22753), (73, 22813), (82, 22852), (83, 22855), (87, 22873), (89, 22882), (94, 22906), (98, 22927), (111, 22993), (125, 23053), (138, 23110), (147, 23149), (155, 23182), (165, 23230), (192, 23320), (215, 23458),

Gene: PhesterPhotato_20 Start: 21836, Stop: 23002, Start Num: 5
Candidate Starts for PhesterPhotato_20:
(Start: 4 @21800 has 3 MA's), (Start: 5 @21836 has 135 MA's), (Start: 6 @21842 has 77 MA's), (11, 21902), (18, 21965), (19, 21974), (21, 22001), (24, 22007), (27, 22025), (32, 22064), (36, 22085), (39, 22112), (41, 22130), (43, 22142), (50, 22187), (65, 22271), (73, 22331), (83, 22373), (87, 22391), (89, 22400), (94, 22424), (98, 22445), (111, 22511), (125, 22571), (138, 22628), (147, 22667), (155, 22700), (165, 22748), (192, 22838), (201, 22895), (215, 22976),

Gene: Philus_20 Start: 21822, Stop: 22985, Start Num: 5
Candidate Starts for Philus_20:
(Start: 4 @21786 has 3 MA's), (Start: 5 @21822 has 135 MA's), (Start: 6 @21828 has 77 MA's), (11, 21888), (17, 21945), (18, 21951), (20, 21975), (24, 21993), (27, 22011), (32, 22050), (36, 22071), (39, 22098), (41, 22116), (45, 22134), (50, 22173), (65, 22257), (73, 22317), (87, 22377), (92, 22401), (93, 22404), (123, 22539), (125, 22560), (127, 22569), (138, 22617), (148, 22659), (155, 22686), (161, 22716), (183, 22800), (207, 22902), (213, 22935), (218, 22968),

Gene: PhlipPhlop_20 Start: 21769, Stop: 22935, Start Num: 5
Candidate Starts for PhlipPhlop_20:
(Start: 4 @21733 has 3 MA's), (Start: 5 @21769 has 135 MA's), (Start: 6 @21775 has 77 MA's), (11, 21835), (18, 21898), (19, 21907), (21, 21934), (24, 21940), (27, 21958), (32, 21997), (36, 22018), (39, 22045), (41, 22063), (43, 22075), (50, 22120), (65, 22204), (73, 22264), (82, 22303), (83, 22306), (87, 22324), (89, 22333), (94, 22357), (98, 22378), (111, 22444), (125, 22504), (138, 22561), (147, 22600), (155, 22633), (165, 22681), (192, 22771), (215, 22909),

Gene: Phreeze_31 Start: 29730, Stop: 30698, Start Num: 29
Candidate Starts for Phreeze_31:
(23, 29679), (Start: 29 @29730 has 10 MA's), (40, 29802), (47, 29829), (53, 29871), (59, 29904), (79, 30030), (90, 30078), (119, 30222), (125, 30258), (149, 30360), (166, 30441), (173, 30474), (181, 30501), (190, 30519), (209, 30630), (212, 30648), (220, 30687),

Gene: Piper2020_21 Start: 21669, Stop: 22847, Start Num: 5
Candidate Starts for Piper2020_21:
(Start: 4 @21633 has 3 MA's), (Start: 5 @21669 has 135 MA's), (Start: 6 @21675 has 77 MA's), (11, 21735), (18, 21798), (20, 21822), (21, 21834), (24, 21840), (27, 21858), (32, 21897), (36, 21918), (39, 21945), (45, 21981), (50, 22020), (54, 22038), (57, 22056), (62, 22086), (64, 22098), (73, 22164), (87, 22224), (92, 22248), (94, 22257), (103, 22293), (109, 22338), (111, 22344), (112, 22347), (124,

22401), (125, 22407), (129, 22425), (138, 22464), (149, 22509), (150, 22512), (159, 22551), (163, 22575), (165, 22584), (168, 22593), (184, 22653), (187, 22659), (217, 22827),

Gene: Plumbus_21 Start: 21643, Stop: 22809, Start Num: 5
Candidate Starts for Plumbus_21:
(Start: 4 @21607 has 3 MA's), (Start: 5 @21643 has 135 MA's), (Start: 6 @21649 has 77 MA's), (11, 21709), (18, 21772), (19, 21781), (21, 21808), (24, 21814), (27, 21832), (32, 21871), (36, 21892), (39, 21919), (41, 21937), (43, 21949), (50, 21994), (65, 22078), (73, 22138), (83, 22180), (87, 22198), (89, 22207), (94, 22231), (98, 22252), (111, 22318), (125, 22378), (138, 22435), (147, 22474), (155, 22507), (165, 22555), (192, 22645), (215, 22783),

Gene: Poenanya_20 Start: 21957, Stop: 23117, Start Num: 6
Candidate Starts for Poenanya_20:
(1, 21465), (Start: 3 @21855 has 1 MA's), (Start: 4 @21915 has 3 MA's), (Start: 6 @21957 has 77 MA's), (11, 22017), (18, 22080), (19, 22089), (21, 22116), (24, 22122), (27, 22140), (32, 22179), (36, 22200), (39, 22227), (41, 22245), (43, 22257), (50, 22302), (65, 22386), (73, 22446), (83, 22488), (87, 22506), (94, 22539), (98, 22560), (111, 22626), (125, 22686), (138, 22743), (147, 22782), (155, 22815), (165, 22863), (215, 23091),

Gene: Polka14_21 Start: 22360, Stop: 23523, Start Num: 5
Candidate Starts for Polka14_21:
(Start: 4 @22324 has 3 MA's), (Start: 5 @22360 has 135 MA's), (Start: 6 @22366 has 77 MA's), (11, 22426), (14, 22465), (17, 22483), (18, 22489), (19, 22498), (20, 22513), (24, 22531), (27, 22549), (36, 22609), (39, 22636), (41, 22654), (43, 22666), (50, 22711), (54, 22729), (65, 22795), (73, 22855), (87, 22915), (92, 22939), (93, 22942), (123, 23077), (125, 23098), (126, 23104), (127, 23107), (138, 23155), (140, 23164), (148, 23197), (155, 23224), (161, 23254), (183, 23338), (207, 23440), (213, 23473), (218, 23506),

Gene: Polo2Bam_22 Start: 21863, Stop: 23029, Start Num: 5
Candidate Starts for Polo2Bam_22:
(Start: 4 @21827 has 3 MA's), (Start: 5 @21863 has 135 MA's), (Start: 6 @21869 has 77 MA's), (11, 21929), (18, 21992), (19, 22001), (21, 22028), (24, 22034), (27, 22052), (32, 22091), (36, 22112), (39, 22139), (41, 22157), (43, 22169), (50, 22214), (65, 22298), (73, 22358), (83, 22400), (87, 22418), (89, 22427), (94, 22451), (98, 22472), (111, 22538), (125, 22598), (138, 22655), (147, 22694), (155, 22727), (165, 22775), (215, 23003),

Gene: PopTart_20 Start: 21862, Stop: 23028, Start Num: 5
Candidate Starts for PopTart_20:
(1, 21376), (Start: 3 @21766 has 1 MA's), (Start: 4 @21826 has 3 MA's), (Start: 5 @21862 has 135 MA's), (Start: 6 @21868 has 77 MA's), (11, 21928), (17, 21985), (18, 21991), (19, 22000), (20, 22015), (24, 22033), (27, 22051), (31, 22087), (32, 22090), (36, 22111), (39, 22138), (50, 22213), (64, 22291), (73, 22357), (87, 22417), (98, 22471), (111, 22537), (125, 22597), (130, 22618), (138, 22654), (155, 22726), (165, 22774), (173, 22810), (192, 22864), (201, 22921), (215, 23002),

Gene: Prager_32 Start: 28646, Stop: 29512, Start Num: 42
Candidate Starts for Prager_32:
(Start: 42 @28646 has 23 MA's), (63, 28778), (68, 28805), (77, 28859), (84, 28886), (86, 28898), (109, 29015), (117, 29033), (127, 29090), (129, 29099), (130, 29102), (138, 29138), (157, 29216), (162, 29243), (166, 29261), (174, 29297), (178, 29315), (197, 29378), (208, 29438),

Gene: Priscilla_20 Start: 21845, Stop: 23047, Start Num: 6
Candidate Starts for Priscilla_20:

(Start: 4 @21803 has 3 MA's), (Start: 6 @21845 has 77 MA's), (9, 21884), (14, 21941), (18, 21965), (19, 21974), (21, 22001), (22, 22004), (25, 22019), (27, 22025), (31, 22061), (33, 22067), (36, 22085), (50, 22187), (57, 22226), (61, 22250), (64, 22268), (65, 22274), (69, 22301), (71, 22310), (73, 22334), (75, 22343), (81, 22370), (85, 22388), (87, 22394), (94, 22427), (100, 22457), (101, 22460), (111, 22532), (113, 22538), (125, 22595), (127, 22604), (138, 22652), (153, 22718), (158, 22736), (175, 22811), (187, 22844), (197, 22904), (201, 22934), (205, 22949), (206, 22955), (211, 22982),

Gene: Puissant_32 Start: 30199, Stop: 31167, Start Num: 29
Candidate Starts for Puissant_32:
(Start: 29 @30199 has 10 MA's), (53, 30340), (58, 30367), (59, 30373), (80, 30508), (119, 30691), (125, 30727), (136, 30778), (148, 30826), (181, 30970), (190, 30988), (209, 31099), (212, 31117),

Gene: QuickMath_21 Start: 23160, Stop: 24326, Start Num: 5
Candidate Starts for QuickMath_21:
(Start: 3 @23064 has 1 MA's), (Start: 4 @23124 has 3 MA's), (Start: 5 @23160 has 135 MA's), (Start: 6 @23166 has 77 MA's), (11, 23226), (18, 23289), (19, 23298), (21, 23325), (24, 23331), (27, 23349), (32, 23388), (36, 23409), (39, 23436), (41, 23454), (43, 23466), (50, 23511), (65, 23595), (73, 23655), (83, 23697), (87, 23715), (89, 23724), (94, 23748), (98, 23769), (111, 23835), (125, 23895), (138, 23952), (147, 23991), (155, 24024), (165, 24072), (192, 24162), (215, 24300),

Gene: Quico_21 Start: 21644, Stop: 22807, Start Num: 5
Candidate Starts for Quico_21:
(Start: 4 @21608 has 3 MA's), (Start: 5 @21644 has 135 MA's), (Start: 6 @21650 has 77 MA's), (11, 21710), (17, 21767), (18, 21773), (20, 21797), (24, 21815), (27, 21833), (32, 21872), (36, 21893), (39, 21920), (41, 21938), (45, 21956), (50, 21995), (65, 22079), (73, 22139), (87, 22199), (92, 22223), (93, 22226), (123, 22361), (125, 22382), (127, 22391), (138, 22439), (148, 22481), (155, 22508), (161, 22538), (183, 22622), (207, 22724), (213, 22757), (218, 22790),

Gene: Radiance_20 Start: 21797, Stop: 22963, Start Num: 5
Candidate Starts for Radiance_20:
(Start: 3 @21701 has 1 MA's), (Start: 4 @21761 has 3 MA's), (Start: 5 @21797 has 135 MA's), (Start: 6 @21803 has 77 MA's), (11, 21863), (18, 21926), (19, 21935), (21, 21962), (24, 21968), (27, 21986), (32, 22025), (36, 22046), (39, 22073), (41, 22091), (43, 22103), (50, 22148), (65, 22232), (73, 22292), (83, 22334), (87, 22352), (89, 22361), (94, 22385), (98, 22406), (111, 22472), (125, 22532), (138, 22589), (147, 22628), (155, 22661), (165, 22709), (192, 22799), (215, 22937),

Gene: Ramsey_21 Start: 21852, Stop: 23012, Start Num: 6
Candidate Starts for Ramsey_21:
(1, 21360), (Start: 3 @21750 has 1 MA's), (Start: 4 @21810 has 3 MA's), (Start: 6 @21852 has 77 MA's), (11, 21912), (18, 21975), (19, 21984), (21, 22011), (24, 22017), (27, 22035), (32, 22074), (39, 22122), (41, 22140), (43, 22152), (50, 22197), (65, 22281), (73, 22341), (82, 22380), (83, 22383), (87, 22401), (89, 22410), (94, 22434), (98, 22455), (111, 22521), (125, 22581), (138, 22638), (147, 22677), (155, 22710), (165, 22758), (192, 22848), (215, 22986),

Gene: RedBird_20 Start: 21678, Stop: 22940, Start Num: 3
Candidate Starts for RedBird_20:
(Start: 3 @21678 has 1 MA's), (Start: 4 @21738 has 3 MA's), (Start: 5 @21774 has 135 MA's), (Start: 6 @21780 has 77 MA's), (11, 21840), (18, 21903), (19, 21912), (21, 21939), (24, 21945), (27, 21963), (32, 22002), (39, 22050), (41, 22068), (43, 22080), (50, 22125), (65, 22209), (73, 22269), (82, 22308), (83, 22311), (87, 22329), (89, 22338), (94, 22362), (98, 22383), (111, 22449), (125, 22509), (138, 22566), (147, 22605), (155, 22638), (165, 22686), (192, 22776), (215, 22914),

Gene: Rialto_22 Start: 22326, Stop: 23492, Start Num: 5

Candidate Starts for Rialto_22:
(Start: 4 @22290 has 3 MA's), (Start: 5 @22326 has 135 MA's), (Start: 6 @22332 has 77 MA's), (11, 22392), (18, 22455), (19, 22464), (21, 22491), (24, 22497), (27, 22515), (32, 22554), (36, 22575), (39, 22602), (41, 22620), (43, 22632), (50, 22677), (65, 22761), (73, 22821), (82, 22860), (83, 22863), (87, 22881), (89, 22890), (94, 22914), (98, 22935), (111, 23001), (125, 23061), (138, 23118), (147, 23157), (155, 23190), (165, 23238), (192, 23328), (215, 23466),

Gene: Rita_20 Start: 21827, Stop: 22993, Start Num: 5
Candidate Starts for Rita_20:
(Start: 3 @21731 has 1 MA's), (Start: 4 @21791 has 3 MA's), (Start: 5 @21827 has 135 MA's), (Start: 6 @21833 has 77 MA's), (11, 21893), (18, 21956), (19, 21965), (21, 21992), (24, 21998), (27, 22016), (32, 22055), (36, 22076), (39, 22103), (41, 22121), (43, 22133), (50, 22178), (65, 22262), (73, 22322), (82, 22361), (83, 22364), (87, 22382), (89, 22391), (94, 22415), (98, 22436), (111, 22502), (125, 22562), (138, 22619), (147, 22658), (155, 22691), (165, 22739), (192, 22829), (215, 22967),

Gene: RitaG_20 Start: 21977, Stop: 23179, Start Num: 6
Candidate Starts for RitaG_20:
(Start: 4 @21935 has 3 MA's), (Start: 6 @21977 has 77 MA's), (9, 22016), (11, 22034), (14, 22073), (16, 22079), (17, 22091), (18, 22097), (27, 22157), (31, 22193), (33, 22199), (36, 22217), (50, 22319), (57, 22358), (61, 22382), (64, 22400), (65, 22406), (69, 22433), (73, 22466), (75, 22475), (81, 22502), (85, 22520), (87, 22526), (94, 22559), (100, 22589), (101, 22592), (111, 22664), (113, 22670), (125, 22727), (127, 22736), (138, 22784), (153, 22850), (158, 22868), (175, 22943), (187, 22976), (197, 23036), (201, 23066), (205, 23081), (206, 23087), (211, 23114),

Gene: Rockne_20 Start: 21800, Stop: 22966, Start Num: 5
Candidate Starts for Rockne_20:
(1, 21314), (Start: 3 @21704 has 1 MA's), (Start: 4 @21764 has 3 MA's), (Start: 5 @21800 has 135 MA's), (Start: 6 @21806 has 77 MA's), (11, 21866), (18, 21929), (19, 21938), (21, 21965), (24, 21971), (27, 21989), (32, 22028), (36, 22049), (39, 22076), (41, 22094), (43, 22106), (50, 22151), (65, 22235), (73, 22295), (82, 22334), (83, 22337), (87, 22355), (89, 22364), (94, 22388), (98, 22409), (111, 22475), (125, 22535), (138, 22592), (147, 22631), (155, 22664), (165, 22712), (192, 22802), (215, 22940),

Gene: RockyHorror_21 Start: 21678, Stop: 22841, Start Num: 5
Candidate Starts for RockyHorror_21:
(Start: 4 @21642 has 3 MA's), (Start: 5 @21678 has 135 MA's), (Start: 6 @21684 has 77 MA's), (11, 21744), (14, 21783), (17, 21801), (18, 21807), (19, 21816), (20, 21831), (24, 21849), (27, 21867), (36, 21927), (39, 21954), (41, 21972), (43, 21984), (50, 22029), (54, 22047), (65, 22113), (73, 22173), (87, 22233), (92, 22257), (93, 22260), (123, 22395), (125, 22416), (127, 22425), (138, 22473), (148, 22515), (155, 22542), (161, 22572), (207, 22758), (213, 22791), (218, 22824),

Gene: Royals2015_20 Start: 21834, Stop: 23036, Start Num: 6
Candidate Starts for Royals2015_20:
(Start: 4 @21792 has 3 MA's), (Start: 6 @21834 has 77 MA's), (9, 21873), (17, 21948), (18, 21954), (19, 21963), (22, 21993), (27, 22014), (31, 22050), (33, 22056), (36, 22074), (45, 22137), (50, 22176), (57, 22215), (61, 22239), (64, 22257), (65, 22263), (69, 22290), (73, 22323), (75, 22332), (81, 22359), (85, 22377), (87, 22383), (94, 22416), (100, 22446), (101, 22449), (111, 22521), (113, 22527), (125, 22584), (127, 22593), (137, 22635), (138, 22641), (153, 22707), (175, 22800), (187, 22833), (194, 22866), (197, 22893), (201, 22923), (205, 22938), (206, 22944), (211, 22971),

Gene: Ruby_20 Start: 21788, Stop: 22954, Start Num: 5
Candidate Starts for Ruby_20:
(Start: 4 @21752 has 3 MA's), (Start: 5 @21788 has 135 MA's), (Start: 6 @21794 has 77 MA's), (11, 21854), (18, 21917), (19, 21926), (21, 21953), (24, 21959), (27, 21977), (32, 22016), (36, 22037), (39,

22064), (41, 22082), (43, 22094), (50, 22139), (65, 22223), (73, 22283), (87, 22343), (89, 22352), (94, 22376), (98, 22397), (111, 22463), (125, 22523), (138, 22580), (147, 22619), (155, 22652), (165, 22700), (192, 22790), (215, 22928),

Gene: SG4_20 Start: 21965, Stop: 23131, Start Num: 5
Candidate Starts for SG4_20:
(Start: 3 @21869 has 1 MA's), (Start: 4 @21929 has 3 MA's), (Start: 5 @21965 has 135 MA's), (Start: 6 @21971 has 77 MA's), (11, 22031), (18, 22094), (19, 22103), (21, 22130), (24, 22136), (27, 22154), (32, 22193), (36, 22214), (39, 22241), (41, 22259), (43, 22271), (50, 22316), (65, 22400), (73, 22460), (83, 22502), (87, 22520), (89, 22529), (94, 22553), (98, 22574), (111, 22640), (125, 22700), (138, 22757), (147, 22796), (155, 22829), (165, 22877), (192, 22967), (215, 23105),

Gene: Saal_20 Start: 21800, Stop: 22963, Start Num: 5
Candidate Starts for Saal_20:
(Start: 4 @21764 has 3 MA's), (Start: 5 @21800 has 135 MA's), (Start: 6 @21806 has 77 MA's), (11, 21866), (17, 21923), (18, 21929), (20, 21953), (24, 21971), (27, 21989), (32, 22028), (36, 22049), (39, 22076), (41, 22094), (45, 22112), (50, 22151), (65, 22235), (73, 22295), (87, 22355), (92, 22379), (93, 22382), (123, 22517), (125, 22538), (127, 22547), (138, 22595), (148, 22637), (155, 22664), (161, 22694), (183, 22778), (207, 22880), (213, 22913), (218, 22946),

Gene: Sabbb_21 Start: 22054, Stop: 23253, Start Num: 6
Candidate Starts for Sabbb_21:
(Start: 4 @22012 has 3 MA's), (Start: 6 @22054 has 77 MA's), (9, 22093), (18, 22174), (19, 22183), (21, 22210), (22, 22213), (25, 22228), (27, 22234), (31, 22270), (33, 22276), (36, 22294), (50, 22396), (57, 22435), (64, 22477), (65, 22483), (69, 22510), (73, 22543), (75, 22552), (81, 22579), (85, 22597), (87, 22603), (94, 22636), (102, 22672), (109, 22732), (111, 22738), (113, 22744), (125, 22801), (127, 22810), (137, 22852), (138, 22858), (153, 22924), (175, 23017), (187, 23050), (197, 23110), (205, 23155), (211, 23188),

Gene: Sandalphon_21 Start: 22377, Stop: 23537, Start Num: 6
Candidate Starts for Sandalphon_21:
(Start: 3 @22275 has 1 MA's), (Start: 4 @22335 has 3 MA's), (Start: 6 @22377 has 77 MA's), (11, 22437), (18, 22500), (19, 22509), (21, 22536), (24, 22542), (27, 22560), (32, 22599), (36, 22620), (39, 22647), (41, 22665), (43, 22677), (50, 22722), (65, 22806), (73, 22866), (83, 22908), (87, 22926), (89, 22935), (94, 22959), (98, 22980), (111, 23046), (125, 23106), (138, 23163), (147, 23202), (155, 23235), (165, 23283), (215, 23511),

Gene: Sassafras_20 Start: 21952, Stop: 23115, Start Num: 5
Candidate Starts for Sassafras_20:
(Start: 4 @21916 has 3 MA's), (Start: 5 @21952 has 135 MA's), (Start: 6 @21958 has 77 MA's), (11, 22018), (14, 22057), (17, 22075), (18, 22081), (19, 22090), (20, 22105), (24, 22123), (27, 22141), (36, 22201), (39, 22228), (41, 22246), (43, 22258), (50, 22303), (54, 22321), (65, 22387), (73, 22447), (87, 22507), (92, 22531), (93, 22534), (123, 22669), (125, 22690), (126, 22696), (127, 22699), (138, 22747), (140, 22756), (148, 22789), (155, 22816), (161, 22846), (183, 22930), (207, 23032), (213, 23065), (218, 23098),

Gene: SassyB_20 Start: 21862, Stop: 23028, Start Num: 5
Candidate Starts for SassyB_20:
(1, 21376), (Start: 3 @21766 has 1 MA's), (Start: 4 @21826 has 3 MA's), (Start: 5 @21862 has 135 MA's), (Start: 6 @21868 has 77 MA's), (11, 21928), (17, 21985), (18, 21991), (19, 22000), (20, 22015), (24, 22033), (27, 22051), (31, 22087), (32, 22090), (36, 22111), (39, 22138), (50, 22213), (64, 22291), (73, 22357), (87, 22417), (98, 22471), (111, 22537), (125, 22597), (130, 22618), (138, 22654), (155, 22726), (165, 22774), (173, 22810), (192, 22864), (201, 22921), (215, 23002),

Gene: Scottish_21 Start: 23121, Stop: 24284, Start Num: 5
Candidate Starts for Scottish_21:
(Start: 4 @23085 has 3 MA's), (Start: 5 @23121 has 135 MA's), (Start: 6 @23127 has 77 MA's), (11, 23187), (14, 23226), (17, 23244), (18, 23250), (19, 23259), (20, 23274), (24, 23292), (27, 23310), (36, 23370), (39, 23397), (41, 23415), (43, 23427), (50, 23472), (54, 23490), (65, 23556), (73, 23616), (87, 23676), (92, 23700), (93, 23703), (123, 23838), (125, 23859), (126, 23865), (127, 23868), (138, 23916), (140, 23925), (148, 23958), (155, 23985), (161, 24015), (183, 24099), (207, 24201), (213, 24234), (218, 24267),

Gene: SeaLumen_21 Start: 21863, Stop: 23029, Start Num: 5
Candidate Starts for SeaLumen_21:
(Start: 4 @21827 has 3 MA's), (Start: 5 @21863 has 135 MA's), (Start: 6 @21869 has 77 MA's), (11, 21929), (18, 21992), (19, 22001), (21, 22028), (24, 22034), (27, 22052), (32, 22091), (36, 22112), (39, 22139), (41, 22157), (43, 22169), (50, 22214), (56, 22247), (65, 22298), (73, 22358), (83, 22400), (87, 22418), (89, 22427), (94, 22451), (98, 22472), (111, 22538), (125, 22598), (138, 22655), (147, 22694), (155, 22727), (165, 22775), (215, 23003),

Gene: Seabastian_20 Start: 22045, Stop: 23220, Start Num: 5
Candidate Starts for Seabastian_20:
(Start: 4 @22009 has 3 MA's), (Start: 5 @22045 has 135 MA's), (Start: 6 @22051 has 77 MA's), (11, 22111), (18, 22174), (19, 22183), (20, 22198), (21, 22210), (24, 22216), (25, 22228), (27, 22234), (32, 22273), (36, 22294), (38, 22315), (39, 22321), (41, 22339), (43, 22351), (50, 22396), (52, 22405), (60, 22441), (62, 22462), (65, 22480), (73, 22540), (87, 22600), (94, 22633), (111, 22720), (112, 22723), (113, 22726), (125, 22780), (137, 22831), (146, 22873), (150, 22885), (156, 22912), (159, 22924), (165, 22957), (176, 23005), (181, 23023), (205, 23122),

Gene: Seagreen_21 Start: 21664, Stop: 22824, Start Num: 6
Candidate Starts for Seagreen_21:
(1, 21172), (Start: 3 @21562 has 1 MA's), (Start: 4 @21622 has 3 MA's), (Start: 6 @21664 has 77 MA's), (11, 21724), (18, 21787), (19, 21796), (21, 21823), (24, 21829), (27, 21847), (32, 21886), (36, 21907), (39, 21934), (41, 21952), (43, 21964), (50, 22009), (65, 22093), (73, 22153), (83, 22195), (87, 22213), (94, 22246), (98, 22267), (111, 22333), (125, 22393), (138, 22450), (147, 22489), (155, 22522), (165, 22570), (215, 22798),

Gene: ShiLan_20 Start: 21843, Stop: 23045, Start Num: 6
Candidate Starts for ShiLan_20:
(Start: 4 @21801 has 3 MA's), (Start: 6 @21843 has 77 MA's), (9, 21882), (14, 21939), (18, 21963), (19, 21972), (21, 21999), (22, 22002), (25, 22017), (27, 22023), (31, 22059), (33, 22065), (36, 22083), (50, 22185), (57, 22224), (61, 22248), (64, 22266), (65, 22272), (69, 22299), (71, 22308), (73, 22332), (75, 22341), (81, 22368), (85, 22386), (87, 22392), (94, 22425), (100, 22455), (101, 22458), (111, 22530), (113, 22536), (125, 22593), (127, 22602), (138, 22650), (153, 22716), (158, 22734), (175, 22809), (187, 22842), (197, 22902), (201, 22932), (205, 22947), (206, 22953), (211, 22980),

Gene: ShowerHandel_20 Start: 21844, Stop: 23046, Start Num: 6
Candidate Starts for ShowerHandel_20:
(Start: 4 @21802 has 3 MA's), (Start: 6 @21844 has 77 MA's), (9, 21883), (14, 21940), (18, 21964), (19, 21973), (21, 22000), (22, 22003), (25, 22018), (27, 22024), (31, 22060), (33, 22066), (36, 22084), (50, 22186), (57, 22225), (61, 22249), (64, 22267), (65, 22273), (69, 22300), (71, 22309), (73, 22333), (75, 22342), (81, 22369), (85, 22387), (87, 22393), (94, 22426), (100, 22456), (101, 22459), (111, 22531), (113, 22537), (125, 22594), (127, 22603), (138, 22651), (153, 22717), (158, 22735), (175, 22810), (187, 22843), (197, 22903), (201, 22933), (205, 22948), (206, 22954), (211, 22981),

Gene: SiSi_20 Start: 21806, Stop: 22972, Start Num: 5
Candidate Starts for SiSi_20:
(Start: 4 @21770 has 3 MA's), (Start: 5 @21806 has 135 MA's), (Start: 6 @21812 has 77 MA's), (11, 21872), (18, 21935), (19, 21944), (21, 21971), (24, 21977), (27, 21995), (32, 22034), (36, 22055), (39, 22082), (41, 22100), (43, 22112), (50, 22157), (65, 22241), (73, 22301), (87, 22361), (89, 22370), (94, 22394), (98, 22415), (111, 22481), (125, 22541), (147, 22637), (155, 22670), (165, 22718), (192, 22808), (215, 22946),

Gene: SilverChicken_26 Start: 21453, Stop: 22616, Start Num: 7
Candidate Starts for SilverChicken_26:
(Start: 7 @21453 has 2 MA's), (9, 21492), (10, 21498), (17, 21567), (18, 21573), (21, 21609), (22, 21612), (27, 21633), (31, 21669), (33, 21675), (36, 21693), (44, 21753), (45, 21756), (50, 21795), (57, 21834), (61, 21858), (65, 21882), (72, 21936), (73, 21942), (83, 21984), (87, 22002), (105, 22080), (115, 22131), (125, 22182), (131, 22206), (139, 22245), (160, 22332), (167, 22362), (176, 22407), (184, 22428), (196, 22470), (218, 22599),

Gene: SimranZ1_21 Start: 21674, Stop: 22783, Start Num: 5
Candidate Starts for SimranZ1_21:
(Start: 4 @21638 has 3 MA's), (Start: 5 @21674 has 135 MA's), (Start: 6 @21680 has 77 MA's), (17, 21740), (18, 21746), (19, 21755), (20, 21770), (24, 21788), (27, 21806), (32, 21845), (36, 21866), (39, 21893), (41, 21911), (50, 21968), (64, 22046), (73, 22112), (87, 22172), (98, 22226), (111, 22292), (125, 22352), (138, 22409), (147, 22448), (155, 22481), (165, 22529), (215, 22757),

Gene: SirHarley_31 Start: 28566, Stop: 29432, Start Num: 42
Candidate Starts for SirHarley_31:
(Start: 42 @28566 has 23 MA's), (63, 28698), (68, 28725), (77, 28779), (84, 28806), (86, 28818), (109, 28935), (117, 28953), (127, 29010), (129, 29019), (130, 29022), (138, 29058), (157, 29136), (162, 29163), (166, 29181), (174, 29217), (178, 29235), (197, 29298), (208, 29358),

Gene: Slim_21 Start: 21606, Stop: 22772, Start Num: 5
Candidate Starts for Slim_21:
(Start: 4 @21570 has 3 MA's), (Start: 5 @21606 has 135 MA's), (Start: 6 @21612 has 77 MA's), (11, 21672), (18, 21735), (19, 21744), (21, 21771), (24, 21777), (27, 21795), (32, 21834), (36, 21855), (39, 21882), (41, 21900), (43, 21912), (50, 21957), (65, 22041), (73, 22101), (82, 22140), (83, 22143), (87, 22161), (89, 22170), (94, 22194), (98, 22215), (111, 22281), (125, 22341), (138, 22398), (147, 22437), (155, 22470), (165, 22518), (192, 22608), (215, 22746),

Gene: Sparkdehlily_20 Start: 21846, Stop: 23009, Start Num: 5
Candidate Starts for Sparkdehlily_20:
(Start: 4 @21810 has 3 MA's), (Start: 5 @21846 has 135 MA's), (Start: 6 @21852 has 77 MA's), (11, 21912), (17, 21969), (18, 21975), (20, 21999), (24, 22017), (27, 22035), (32, 22074), (36, 22095), (39, 22122), (41, 22140), (45, 22158), (50, 22197), (65, 22281), (73, 22341), (87, 22401), (92, 22425), (93, 22428), (123, 22563), (125, 22584), (127, 22593), (138, 22641), (148, 22683), (155, 22710), (161, 22740), (183, 22824), (207, 22926), (213, 22959), (218, 22992),

Gene: Spartacus_21 Start: 21904, Stop: 23064, Start Num: 6
Candidate Starts for Spartacus_21:
(Start: 3 @21802 has 1 MA's), (Start: 4 @21862 has 3 MA's), (Start: 6 @21904 has 77 MA's), (11, 21964), (18, 22027), (19, 22036), (21, 22063), (24, 22069), (27, 22087), (32, 22126), (36, 22147), (39, 22174), (41, 22192), (43, 22204), (50, 22249), (65, 22333), (73, 22393), (83, 22435), (87, 22453), (89, 22462), (94, 22486), (98, 22507), (111, 22573), (125, 22633), (138, 22690), (147, 22729), (155, 22762), (165, 22810), (215, 23038),

Gene: Spikelee_21 Start: 21646, Stop: 22806, Start Num: 6
Candidate Starts for Spikelee_21:
(1, 21154), (Start: 3 @21544 has 1 MA's), (Start: 4 @21604 has 3 MA's), (Start: 6 @21646 has 77 MA's), (11, 21706), (18, 21769), (19, 21778), (21, 21805), (24, 21811), (27, 21829), (32, 21868), (39, 21916), (41, 21934), (43, 21946), (50, 21991), (65, 22075), (73, 22135), (82, 22174), (83, 22177), (87, 22195), (89, 22204), (94, 22228), (98, 22249), (111, 22315), (125, 22375), (138, 22432), (147, 22471), (155, 22504), (165, 22552), (192, 22642), (215, 22780),

Gene: Spoonbill_20 Start: 21842, Stop: 23044, Start Num: 6
Candidate Starts for Spoonbill_20:
(Start: 4 @21800 has 3 MA's), (Start: 6 @21842 has 77 MA's), (9, 21881), (14, 21938), (18, 21962), (19, 21971), (21, 21998), (22, 22001), (25, 22016), (27, 22022), (31, 22058), (33, 22064), (36, 22082), (50, 22184), (57, 22223), (61, 22247), (64, 22265), (65, 22271), (69, 22298), (71, 22307), (73, 22331), (75, 22340), (81, 22367), (85, 22385), (87, 22391), (94, 22424), (100, 22454), (101, 22457), (111, 22529), (113, 22535), (125, 22592), (127, 22601), (138, 22649), (153, 22715), (158, 22733), (175, 22808), (187, 22841), (197, 22901), (201, 22931), (205, 22946), (206, 22952), (211, 22979),

Gene: StAnnes_20 Start: 21858, Stop: 23024, Start Num: 5
Candidate Starts for StAnnes_20:
(Start: 4 @21822 has 3 MA's), (Start: 5 @21858 has 135 MA's), (Start: 6 @21864 has 77 MA's), (11, 21924), (18, 21987), (20, 22011), (21, 22023), (24, 22029), (27, 22047), (32, 22086), (36, 22107), (39, 22134), (41, 22152), (43, 22164), (50, 22209), (60, 22254), (65, 22293), (73, 22353), (87, 22413), (89, 22422), (94, 22446), (99, 22470), (110, 22530), (114, 22539), (116, 22542), (121, 22566), (124, 22590), (125, 22596), (137, 22647), (159, 22737), (172, 22800), (183, 22833), (185, 22836), (186, 22839), (191, 22854), (205, 22926),

Gene: StAugustine_36 Start: 35781, Stop: 36806, Start Num: 26
Candidate Starts for StAugustine_36:
(Start: 26 @35781 has 2 MA's), (37, 35853), (41, 35886), (44, 35901), (46, 35907), (49, 35925), (50, 35943), (51, 35949), (55, 35970), (88, 36150), (96, 36183), (107, 36249), (111, 36282), (115, 36291), (118, 36297), (125, 36348), (133, 36384), (135, 36390), (138, 36402), (142, 36423), (145, 36432), (148, 36441), (166, 36525), (202, 36696), (209, 36726), (210, 36729), (212, 36744), (215, 36771),

Gene: Stap_21 Start: 21853, Stop: 23013, Start Num: 6
Candidate Starts for Stap_21:
(1, 21361), (Start: 3 @21751 has 1 MA's), (Start: 4 @21811 has 3 MA's), (Start: 6 @21853 has 77 MA's), (11, 21913), (18, 21976), (19, 21985), (21, 22012), (24, 22018), (27, 22036), (32, 22075), (39, 22123), (41, 22141), (43, 22153), (50, 22198), (65, 22282), (73, 22342), (82, 22381), (83, 22384), (87, 22402), (89, 22411), (94, 22435), (98, 22456), (111, 22522), (125, 22582), (138, 22639), (147, 22678), (155, 22711), (165, 22759), (192, 22849), (215, 22987),

Gene: Starcevich_21 Start: 21608, Stop: 22774, Start Num: 5
Candidate Starts for Starcevich_21:
(Start: 4 @21572 has 3 MA's), (Start: 5 @21608 has 135 MA's), (Start: 6 @21614 has 77 MA's), (11, 21674), (18, 21737), (19, 21746), (21, 21773), (24, 21779), (27, 21797), (32, 21836), (36, 21857), (39, 21884), (41, 21902), (43, 21914), (50, 21959), (65, 22043), (73, 22103), (82, 22142), (83, 22145), (87, 22163), (89, 22172), (94, 22196), (98, 22217), (111, 22283), (125, 22343), (138, 22400), (147, 22439), (155, 22472), (165, 22520), (192, 22610), (215, 22748),

Gene: Strokeseat_20 Start: 21912, Stop: 23078, Start Num: 5
Candidate Starts for Strokeseat_20:
(1, 21426), (Start: 3 @21816 has 1 MA's), (Start: 4 @21876 has 3 MA's), (Start: 5 @21912 has 135 MA's), (Start: 6 @21918 has 77 MA's), (11, 21978), (18, 22041), (19, 22050), (21, 22077), (24, 22083),

(27, 22101), (32, 22140), (36, 22161), (39, 22188), (41, 22206), (43, 22218), (50, 22263), (65, 22347), (73, 22407), (83, 22449), (87, 22467), (89, 22476), (94, 22500), (98, 22521), (111, 22587), (125, 22647), (138, 22704), (147, 22743), (155, 22776), (165, 22824), (192, 22914), (215, 23052),

Gene: SuperGrey_21 Start: 22491, Stop: 23657, Start Num: 5
Candidate Starts for SuperGrey_21:
(Start: 4 @22455 has 3 MA's), (Start: 5 @22491 has 135 MA's), (Start: 6 @22497 has 77 MA's), (11, 22557), (18, 22620), (19, 22629), (21, 22656), (24, 22662), (27, 22680), (32, 22719), (36, 22740), (39, 22767), (41, 22785), (43, 22797), (50, 22842), (65, 22926), (73, 22986), (83, 23028), (87, 23046), (89, 23055), (94, 23079), (98, 23100), (111, 23166), (125, 23226), (138, 23283), (147, 23322), (155, 23355), (165, 23403), (192, 23493), (215, 23631),

Gene: SuperheroCarly_32 Start: 28496, Stop: 29362, Start Num: 42
Candidate Starts for SuperheroCarly_32:
(Start: 42 @28496 has 23 MA's), (63, 28628), (68, 28655), (77, 28709), (84, 28736), (86, 28748), (109, 28865), (117, 28883), (127, 28940), (129, 28949), (130, 28952), (138, 28988), (157, 29066), (162, 29093), (166, 29111), (174, 29147), (178, 29165), (197, 29228), (208, 29288),

Gene: SwagPigglett_20 Start: 21823, Stop: 22986, Start Num: 5
Candidate Starts for SwagPigglett_20:
(Start: 4 @21787 has 3 MA's), (Start: 5 @21823 has 135 MA's), (Start: 6 @21829 has 77 MA's), (11, 21889), (17, 21946), (18, 21952), (20, 21976), (24, 21994), (27, 22012), (32, 22051), (36, 22072), (39, 22099), (41, 22117), (45, 22135), (50, 22174), (65, 22258), (73, 22318), (87, 22378), (92, 22402), (93, 22405), (123, 22540), (125, 22561), (127, 22570), (138, 22618), (148, 22660), (155, 22687), (161, 22717), (183, 22801), (207, 22903), (213, 22936), (218, 22969),

Gene: TDanisky_20 Start: 21846, Stop: 23009, Start Num: 5
Candidate Starts for TDanisky_20:
(Start: 4 @21810 has 3 MA's), (Start: 5 @21846 has 135 MA's), (Start: 6 @21852 has 77 MA's), (11, 21912), (17, 21969), (18, 21975), (20, 21999), (24, 22017), (27, 22035), (32, 22074), (36, 22095), (39, 22122), (41, 22140), (45, 22158), (50, 22197), (65, 22281), (73, 22341), (87, 22401), (92, 22425), (93, 22428), (123, 22563), (125, 22584), (127, 22593), (138, 22641), (148, 22683), (155, 22710), (161, 22740), (183, 22824), (207, 22926), (213, 22959), (218, 22992),

Gene: Taj_20 Start: 21847, Stop: 23013, Start Num: 5
Candidate Starts for Taj_20:
(Start: 4 @21811 has 3 MA's), (Start: 5 @21847 has 135 MA's), (Start: 6 @21853 has 77 MA's), (11, 21913), (18, 21976), (19, 21985), (21, 22012), (24, 22018), (27, 22036), (32, 22075), (36, 22096), (39, 22123), (41, 22141), (43, 22153), (50, 22198), (65, 22282), (73, 22342), (83, 22384), (87, 22402), (89, 22411), (94, 22435), (98, 22456), (111, 22522), (125, 22582), (138, 22639), (147, 22678), (155, 22711), (165, 22759), (192, 22849), (201, 22906), (215, 22987),

Gene: Tchotchke_21 Start: 21754, Stop: 22914, Start Num: 6
Candidate Starts for Tchotchke_21:
(1, 21262), (Start: 3 @21652 has 1 MA's), (Start: 4 @21712 has 3 MA's), (Start: 6 @21754 has 77 MA's), (11, 21814), (18, 21877), (19, 21886), (21, 21913), (24, 21919), (27, 21937), (32, 21976), (36, 21997), (39, 22024), (41, 22042), (43, 22054), (50, 22099), (65, 22183), (73, 22243), (83, 22285), (87, 22303), (94, 22336), (98, 22357), (111, 22423), (125, 22483), (138, 22540), (147, 22579), (155, 22612), (165, 22660), (215, 22888),

Gene: Thoth_32 Start: 28631, Stop: 29497, Start Num: 42
Candidate Starts for Thoth_32:

(Start: 42 @28631 has 23 MA's), (63, 28763), (68, 28790), (77, 28844), (84, 28871), (86, 28883), (109, 29000), (117, 29018), (127, 29075), (129, 29084), (130, 29087), (138, 29123), (157, 29201), (162, 29228), (166, 29246), (174, 29282), (178, 29300), (197, 29363), (208, 29423),

Gene: Thumb_31 Start: 29730, Stop: 30695, Start Num: 29
Candidate Starts for Thumb_31:
(23, 29679), (Start: 29 @29730 has 10 MA's), (40, 29802), (47, 29829), (53, 29871), (59, 29904), (79, 30030), (90, 30078), (119, 30219), (125, 30255), (149, 30357), (166, 30438), (173, 30471), (181, 30498), (190, 30516), (209, 30627), (212, 30645), (220, 30684),

Gene: TootsiePop_21 Start: 21678, Stop: 22850, Start Num: 6
Candidate Starts for TootsiePop_21:
(Start: 4 @21636 has 3 MA's), (Start: 5 @21672 has 135 MA's), (Start: 6 @21678 has 77 MA's), (11, 21738), (18, 21801), (20, 21825), (21, 21837), (24, 21843), (27, 21861), (32, 21900), (36, 21921), (39, 21948), (45, 21984), (50, 22023), (54, 22041), (57, 22059), (62, 22089), (64, 22101), (73, 22167), (87, 22227), (92, 22251), (94, 22260), (103, 22296), (109, 22341), (111, 22347), (112, 22350), (124, 22404), (125, 22410), (129, 22428), (138, 22467), (149, 22512), (150, 22515), (159, 22554), (163, 22578), (165, 22587), (168, 22596), (184, 22656), (187, 22662),

Gene: Tootsieroll_21 Start: 21656, Stop: 22822, Start Num: 5
Candidate Starts for Tootsieroll_21:
(Start: 3 @21560 has 1 MA's), (Start: 4 @21620 has 3 MA's), (Start: 5 @21656 has 135 MA's), (Start: 6 @21662 has 77 MA's), (11, 21722), (18, 21785), (19, 21794), (21, 21821), (24, 21827), (27, 21845), (32, 21884), (36, 21905), (39, 21932), (41, 21950), (43, 21962), (50, 22007), (65, 22091), (73, 22151), (83, 22193), (87, 22211), (89, 22220), (94, 22244), (98, 22265), (111, 22331), (125, 22391), (138, 22448), (147, 22487), (155, 22520), (165, 22568), (192, 22658), (215, 22796),

Gene: Topiatin_22 Start: 22521, Stop: 23681, Start Num: 6
Candidate Starts for Topiatin_22:
(Start: 3 @22419 has 1 MA's), (Start: 4 @22479 has 3 MA's), (Start: 5 @22515 has 135 MA's), (Start: 6 @22521 has 77 MA's), (11, 22581), (18, 22644), (19, 22653), (21, 22680), (24, 22686), (27, 22704), (31, 22740), (32, 22743), (36, 22764), (39, 22791), (41, 22809), (43, 22821), (50, 22866), (65, 22950), (73, 23010), (83, 23052), (87, 23070), (94, 23103), (98, 23124), (111, 23190), (125, 23250), (138, 23307), (147, 23346), (155, 23379), (165, 23427), (192, 23517), (215, 23655),

Gene: Toron_22 Start: 22193, Stop: 23350, Start Num: 6
Candidate Starts for Toron_22:
(Start: 6 @22193 has 77 MA's), (11, 22250), (15, 22292), (17, 22307), (18, 22313), (27, 22373), (31, 22409), (33, 22415), (36, 22433), (50, 22535), (57, 22574), (64, 22616), (65, 22622), (69, 22649), (73, 22682), (75, 22691), (78, 22703), (82, 22721), (87, 22742), (89, 22751), (92, 22766), (94, 22769), (123, 22904), (125, 22925), (127, 22934), (138, 22982), (140, 22991), (148, 23024), (154, 23051), (161, 23081), (182, 23165), (199, 23246), (204, 23267), (211, 23300), (215, 23333),

Gene: Totinger_21 Start: 21606, Stop: 22772, Start Num: 5
Candidate Starts for Totinger_21:
(Start: 4 @21570 has 3 MA's), (Start: 5 @21606 has 135 MA's), (Start: 6 @21612 has 77 MA's), (11, 21672), (18, 21735), (19, 21744), (21, 21771), (24, 21777), (27, 21795), (32, 21834), (36, 21855), (39, 21882), (41, 21900), (43, 21912), (50, 21957), (65, 22041), (73, 22101), (82, 22140), (83, 22143), (87, 22161), (89, 22170), (94, 22194), (98, 22215), (111, 22281), (125, 22341), (138, 22398), (147, 22437), (155, 22470), (165, 22518), (192, 22608), (215, 22746),

Gene: Troll4_32 Start: 28635, Stop: 29501, Start Num: 42
Candidate Starts for Troll4_32:

(Start: 42 @28635 has 23 MA's), (63, 28767), (68, 28794), (77, 28848), (84, 28875), (86, 28887), (109, 29004), (117, 29022), (127, 29079), (129, 29088), (130, 29091), (138, 29127), (157, 29205), (162, 29232), (166, 29250), (174, 29286), (178, 29304), (197, 29367), (208, 29427),

Gene: VRedHorse_20 Start: 21981, Stop: 23147, Start Num: 5
Candidate Starts for VRedHorse_20:
(1, 21495), (Start: 3 @21885 has 1 MA's), (Start: 4 @21945 has 3 MA's), (Start: 5 @21981 has 135 MA's), (Start: 6 @21987 has 77 MA's), (11, 22047), (18, 22110), (19, 22119), (21, 22146), (24, 22152), (27, 22170), (32, 22209), (36, 22230), (39, 22257), (41, 22275), (43, 22287), (50, 22332), (65, 22416), (73, 22476), (82, 22515), (83, 22518), (87, 22536), (89, 22545), (94, 22569), (98, 22590), (111, 22656), (125, 22716), (138, 22773), (147, 22812), (155, 22845), (165, 22893), (192, 22983), (215, 23121),

Gene: Veteran_20 Start: 21819, Stop: 22985, Start Num: 5
Candidate Starts for Veteran_20:
(Start: 4 @21783 has 3 MA's), (Start: 5 @21819 has 135 MA's), (Start: 6 @21825 has 77 MA's), (11, 21885), (18, 21948), (19, 21957), (21, 21984), (24, 21990), (27, 22008), (32, 22047), (36, 22068), (39, 22095), (41, 22113), (43, 22125), (50, 22170), (65, 22254), (73, 22314), (87, 22374), (89, 22383), (94, 22407), (98, 22428), (111, 22494), (125, 22554), (147, 22650), (155, 22683), (165, 22731), (192, 22821), (215, 22959),

Gene: Violac_21 Start: 22357, Stop: 23556, Start Num: 6
Candidate Starts for Violac_21:
(Start: 4 @22315 has 3 MA's), (Start: 6 @22357 has 77 MA's), (9, 22396), (18, 22477), (19, 22486), (22, 22516), (27, 22537), (31, 22573), (33, 22579), (36, 22597), (50, 22699), (57, 22738), (61, 22762), (64, 22780), (65, 22786), (69, 22813), (73, 22846), (75, 22855), (81, 22882), (85, 22900), (87, 22906), (94, 22939), (102, 22975), (109, 23035), (111, 23041), (113, 23047), (125, 23104), (127, 23113), (128, 23116), (137, 23155), (138, 23161), (153, 23227), (175, 23320), (187, 23353), (197, 23413), (205, 23458), (211, 23491),

Gene: Visconti_32 Start: 28644, Stop: 29510, Start Num: 42
Candidate Starts for Visconti_32:
(Start: 42 @28644 has 23 MA's), (63, 28776), (68, 28803), (77, 28857), (84, 28884), (86, 28896), (109, 29013), (117, 29031), (127, 29088), (129, 29097), (130, 29100), (138, 29136), (157, 29214), (162, 29241), (166, 29259), (174, 29295), (178, 29313), (197, 29376), (208, 29436),

Gene: Vivum_20 Start: 21761, Stop: 22927, Start Num: 5
Candidate Starts for Vivum_20:
(Start: 3 @21665 has 1 MA's), (Start: 4 @21725 has 3 MA's), (Start: 5 @21761 has 135 MA's), (Start: 6 @21767 has 77 MA's), (11, 21827), (18, 21890), (19, 21899), (21, 21926), (24, 21932), (27, 21950), (32, 21989), (36, 22010), (39, 22037), (41, 22055), (43, 22067), (50, 22112), (65, 22196), (73, 22256), (82, 22295), (83, 22298), (87, 22316), (89, 22325), (94, 22349), (98, 22370), (111, 22436), (125, 22496), (138, 22553), (147, 22592), (155, 22625), (165, 22673), (192, 22763), (215, 22901),

Gene: Wachhund_20 Start: 21839, Stop: 23005, Start Num: 5
Candidate Starts for Wachhund_20:
(Start: 3 @21743 has 1 MA's), (Start: 4 @21803 has 3 MA's), (Start: 5 @21839 has 135 MA's), (Start: 6 @21845 has 77 MA's), (11, 21905), (18, 21968), (19, 21977), (21, 22004), (24, 22010), (27, 22028), (32, 22067), (36, 22088), (39, 22115), (41, 22133), (43, 22145), (50, 22190), (65, 22274), (73, 22334), (83, 22376), (87, 22394), (89, 22403), (94, 22427), (98, 22448), (111, 22514), (125, 22574), (138, 22631), (147, 22670), (155, 22703), (165, 22751), (192, 22841), (215, 22979),

Gene: WaldoWhy_33 Start: 28640, Stop: 29506, Start Num: 42
Candidate Starts for WaldoWhy_33:

(Start: 42 @28640 has 23 MA's), (63, 28772), (68, 28799), (77, 28853), (84, 28880), (86, 28892), (109, 29009), (117, 29027), (127, 29084), (129, 29093), (130, 29096), (138, 29132), (157, 29210), (162, 29237), (166, 29255), (174, 29291), (178, 29309), (197, 29372), (208, 29432),

Gene: Wanda_41 Start: 34242, Stop: 35408, Start Num: 5
Candidate Starts for Wanda_41:
(Start: 3 @34146 has 1 MA's), (Start: 4 @34206 has 3 MA's), (Start: 5 @34242 has 135 MA's), (Start: 6 @34248 has 77 MA's), (11, 34308), (18, 34371), (19, 34380), (21, 34407), (24, 34413), (27, 34431), (32, 34470), (36, 34491), (39, 34518), (41, 34536), (43, 34548), (50, 34593), (65, 34677), (73, 34737), (83, 34779), (87, 34797), (94, 34830), (98, 34851), (111, 34917), (125, 34977), (138, 35034), (155, 35106), (165, 35154), (215, 35382),

Gene: Wee_21 Start: 22388, Stop: 23554, Start Num: 5
Candidate Starts for Wee_21:
(Start: 4 @22352 has 3 MA's), (Start: 5 @22388 has 135 MA's), (Start: 6 @22394 has 77 MA's), (11, 22454), (18, 22517), (19, 22526), (21, 22553), (24, 22559), (27, 22577), (32, 22616), (36, 22637), (39, 22664), (41, 22682), (43, 22694), (50, 22739), (65, 22823), (73, 22883), (83, 22925), (87, 22943), (89, 22952), (94, 22976), (98, 22997), (111, 23063), (125, 23123), (138, 23180), (147, 23219), (155, 23252), (165, 23300), (215, 23528),

Gene: Whatsapiecost_20 Start: 21870, Stop: 23030, Start Num: 6
Candidate Starts for Whatsapiecost_20:
(1, 21378), (Start: 3 @21768 has 1 MA's), (Start: 4 @21828 has 3 MA's), (Start: 6 @21870 has 77 MA's), (11, 21930), (18, 21993), (19, 22002), (21, 22029), (24, 22035), (27, 22053), (32, 22092), (36, 22113), (39, 22140), (41, 22158), (43, 22170), (50, 22215), (65, 22299), (73, 22359), (83, 22401), (87, 22419), (89, 22428), (94, 22452), (98, 22473), (111, 22539), (125, 22599), (138, 22656), (147, 22695), (155, 22728), (165, 22776), (215, 23004),

Gene: Whouxphf_20 Start: 21921, Stop: 23087, Start Num: 5
Candidate Starts for Whouxphf_20:
(Start: 4 @21885 has 3 MA's), (Start: 5 @21921 has 135 MA's), (Start: 6 @21927 has 77 MA's), (11, 21987), (17, 22044), (18, 22050), (19, 22059), (20, 22074), (24, 22092), (27, 22110), (31, 22146), (32, 22149), (36, 22170), (39, 22197), (50, 22272), (65, 22356), (73, 22416), (87, 22476), (98, 22530), (111, 22596), (125, 22656), (138, 22713), (155, 22785), (165, 22833), (173, 22869), (215, 23061),

Gene: WillSterrel_21 Start: 23207, Stop: 24373, Start Num: 5
Candidate Starts for WillSterrel_21:
(Start: 3 @23111 has 1 MA's), (Start: 4 @23171 has 3 MA's), (Start: 5 @23207 has 135 MA's), (Start: 6 @23213 has 77 MA's), (11, 23273), (18, 23336), (19, 23345), (21, 23372), (24, 23378), (27, 23396), (32, 23435), (36, 23456), (39, 23483), (41, 23501), (43, 23513), (50, 23558), (65, 23642), (73, 23702), (82, 23741), (83, 23744), (87, 23762), (89, 23771), (94, 23795), (98, 23816), (111, 23882), (125, 23942), (138, 23999), (147, 24038), (155, 24071), (165, 24119), (192, 24209), (215, 24347),

Gene: XFactor_20 Start: 21826, Stop: 22986, Start Num: 6
Candidate Starts for XFactor_20:
(1, 21334), (Start: 3 @21724 has 1 MA's), (Start: 4 @21784 has 3 MA's), (Start: 6 @21826 has 77 MA's), (11, 21886), (18, 21949), (19, 21958), (21, 21985), (24, 21991), (27, 22009), (32, 22048), (36, 22069), (39, 22096), (41, 22114), (43, 22126), (50, 22171), (65, 22255), (73, 22315), (83, 22357), (87, 22375), (89, 22384), (94, 22408), (98, 22429), (111, 22495), (125, 22555), (138, 22612), (147, 22651), (155, 22684), (165, 22732), (215, 22960),

Gene: Yorick_20 Start: 21842, Stop: 23044, Start Num: 6
Candidate Starts for Yorick_20:

(Start: 4 @21800 has 3 MA's), (Start: 6 @21842 has 77 MA's), (9, 21881), (14, 21938), (18, 21962), (19, 21971), (21, 21998), (22, 22001), (25, 22016), (27, 22022), (31, 22058), (33, 22064), (36, 22082), (50, 22184), (57, 22223), (61, 22247), (64, 22265), (65, 22271), (69, 22298), (71, 22307), (73, 22331), (75, 22340), (81, 22367), (85, 22385), (87, 22391), (94, 22424), (100, 22454), (101, 22457), (111, 22529), (113, 22535), (125, 22592), (127, 22601), (138, 22649), (153, 22715), (158, 22733), (175, 22808), (187, 22841), (197, 22901), (201, 22931), (205, 22946), (206, 22952), (211, 22979),

Gene: Zerg_20 Start: 21787, Stop: 22950, Start Num: 5
Candidate Starts for Zerg_20:
(Start: 4 @21751 has 3 MA's), (Start: 5 @21787 has 135 MA's), (Start: 6 @21793 has 77 MA's), (11, 21853), (14, 21892), (17, 21910), (18, 21916), (19, 21925), (20, 21940), (24, 21958), (27, 21976), (36, 22036), (39, 22063), (41, 22081), (43, 22093), (50, 22138), (54, 22156), (65, 22222), (73, 22282), (87, 22342), (92, 22366), (93, 22369), (123, 22504), (125, 22525), (127, 22534), (138, 22582), (148, 22624), (155, 22651), (161, 22681), (207, 22867), (213, 22900), (218, 22933),

Gene: Zizzle_20 Start: 21786, Stop: 22988, Start Num: 6
Candidate Starts for Zizzle_20:
(Start: 4 @21744 has 3 MA's), (Start: 6 @21786 has 77 MA's), (9, 21825), (14, 21882), (18, 21906), (19, 21915), (21, 21942), (22, 21945), (25, 21960), (27, 21966), (31, 22002), (33, 22008), (36, 22026), (50, 22128), (57, 22167), (61, 22191), (64, 22209), (65, 22215), (69, 22242), (71, 22251), (73, 22275), (75, 22284), (81, 22311), (85, 22329), (87, 22335), (94, 22368), (100, 22398), (101, 22401), (111, 22473), (113, 22479), (125, 22536), (127, 22545), (138, 22593), (153, 22659), (158, 22677), (175, 22752), (187, 22785), (197, 22845), (201, 22875), (205, 22890), (206, 22896), (211, 22923),