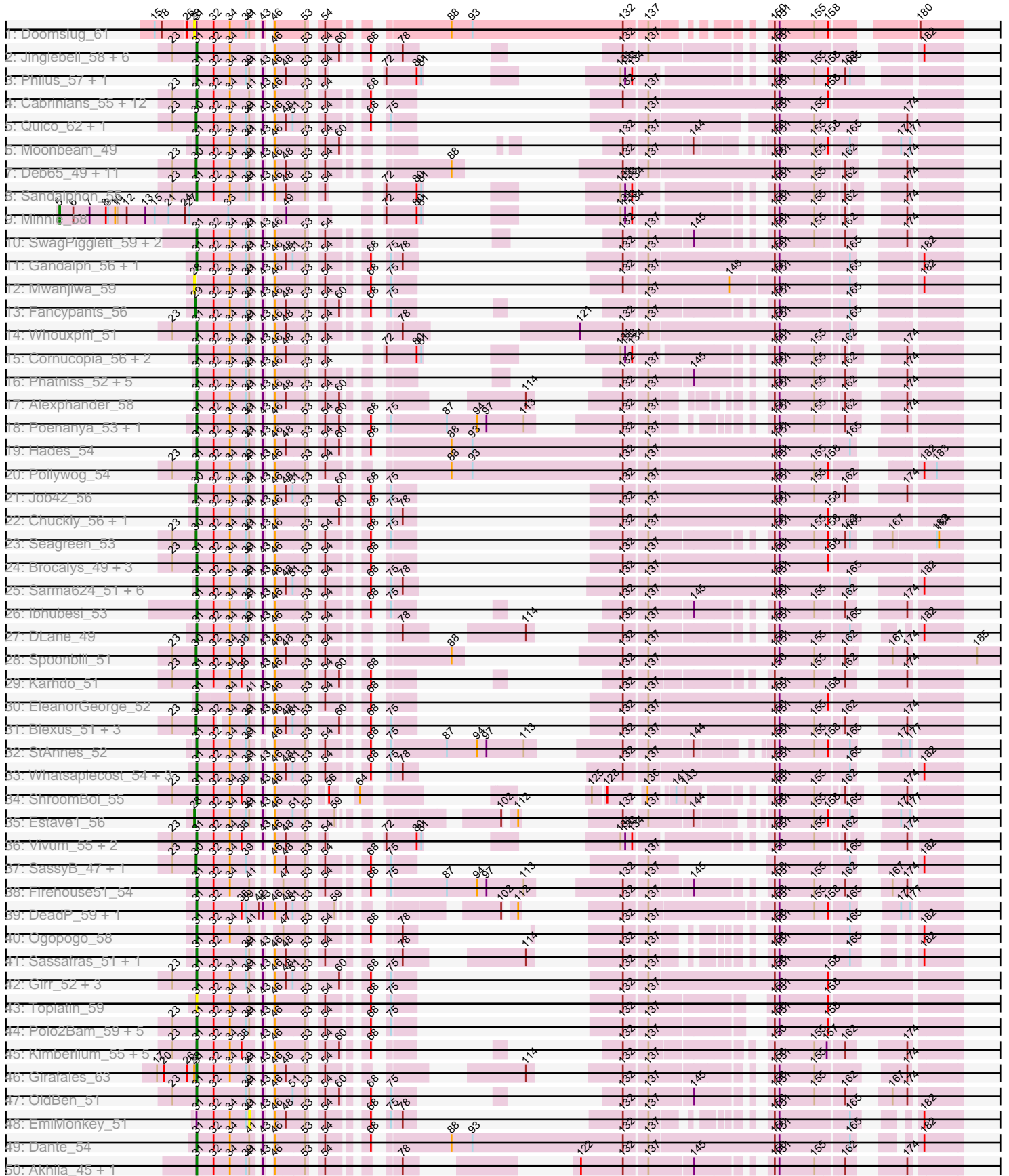
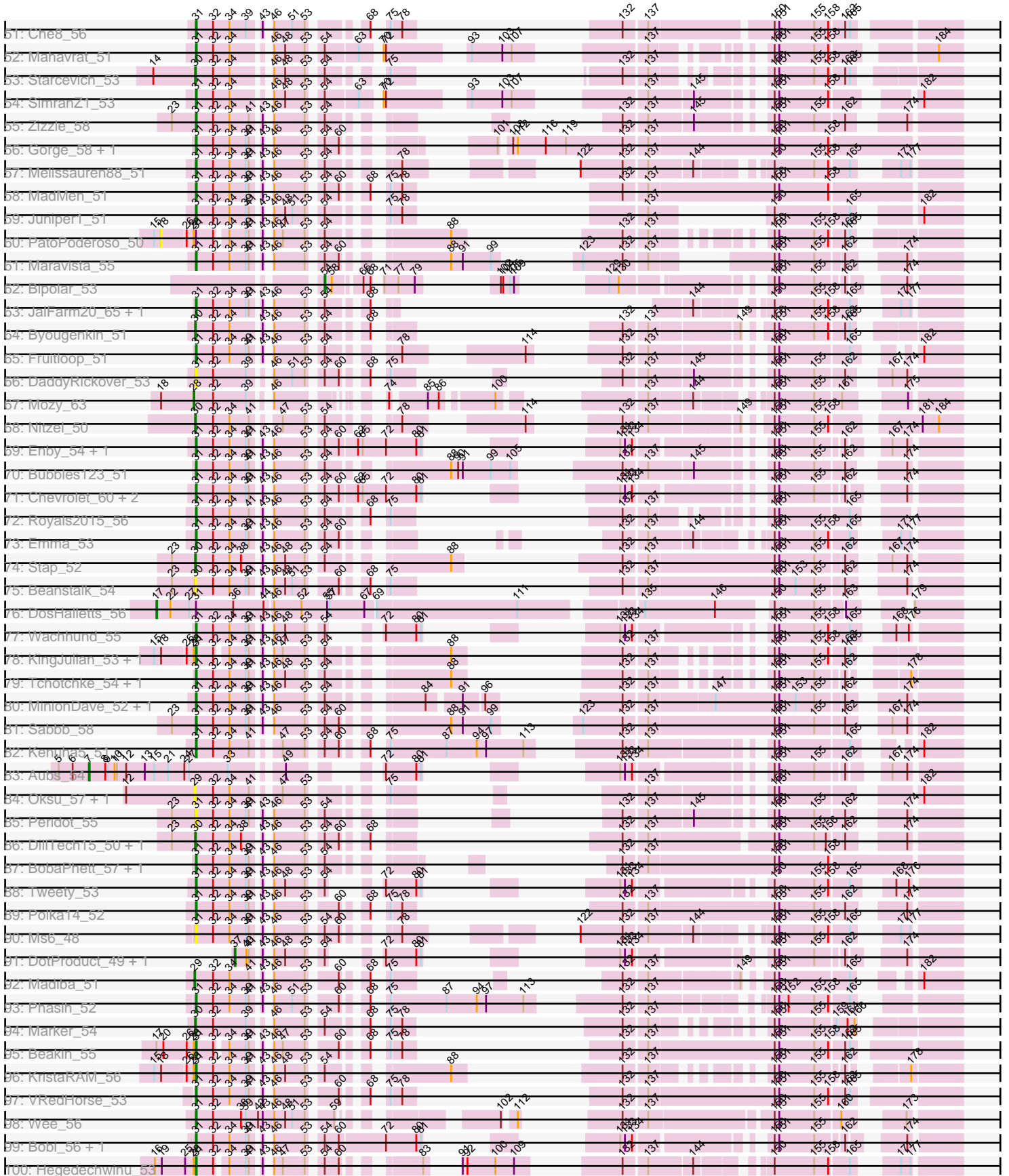


Pham 294421



Pham 294421



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 294421 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294421 has 218 members, 22 are drafts.

Phages represented in each track:

- Track 1 : Doomslug_61
- Track 2 : Jinglebell_58, Ochi17_56, Llama_58, Modragons_57, Seabastian_58, AlpineSix_58, OfUltron_58
- Track 3 : Philus_57, DRBy19_57
- Track 4 : Cabrinians_55, Burwell21_52, Jarcob_54, Martik_54, Lizziana_60, Koella_48, ShowerHandel_57, NormanBulbieJr_54, ShiLan_53, Crumble_49, Priscilla_54, FreddyB_55, Yorick_53
- Track 5 : Quico_62, Florinda_65
- Track 6 : Moonbeam_49
- Track 7 : Deb65_49, Nimbo_48, Leperchaun_46, JoeyJr_49, Daenerys_48, PHappiness_49, RitaG_49, Scottish_52, Geralt_49, Pacc40_48, Empress_52, KingMidas_53
- Track 8 : Sandalphon_55
- Track 9 : Minnie_58
- Track 10 : SwagPigglett_59, LilMoolah_52, Nivrat_50
- Track 11 : Gandalph_56, Mova_54
- Track 12 : Mwanjiwa_59
- Track 13 : Fancypants_56
- Track 14 : Whouxphf_51
- Track 15 : Cornucopia_56, Ardmore_45, OwlsT2W_54
- Track 16 : Phatniss_52, Llij_50, Drago_52, DirtMcgirt_53, UncleRicky_53, Lucia_54
- Track 17 : Alexphander_58
- Track 18 : Poenanya_53, Doomphist_53
- Track 19 : Hades_54
- Track 20 : Pollywog_54
- Track 21 : Job42_56
- Track 22 : Chuckly_56, Clank_58
- Track 23 : Seagreen_53
- Track 24 : Brocalys_49, Clifton_49, Pippy_52, LastJedi_48
- Track 25 : Sarma624_51, Velveteen_48, Kingsley_50, BigPhil_49, Brookers_50, Coco12_52, Cerasum_49
- Track 26 : lbhubesi_53
- Track 27 : DLane_49
- Track 28 : Spoonbill_51
- Track 29 : Karhdo_51
- Track 30 : EleanorGeorge_52
- Track 31 : Blexus_51, Kersh_55, Ramsey_54, Tootsieroll_55

- Track 32 : StAnnes_52
- Track 33 : Whatsapiecost_54, PMC_50, Boomer_58, Rockne_54
- Track 34 : ShroomBoi_55
- Track 35 : Estave1_56
- Track 36 : Vivum_55, Radiance_53, BodEinwohner17_54
- Track 37 : SassyB_47, PopTart_47
- Track 38 : Firehouse51_54
- Track 39 : DeadP_59, Taj_57
- Track 40 : Ogopogo_58
- Track 41 : Sassafras_51, Inventum_48
- Track 42 : Girr_52, Leozinho_53, Ruby_50, MisterCuddles_52
- Track 43 : Topiatin_59
- Track 44 : Polo2Bam_59, SeaLumen_58, LunaBlu_56, NewHope4_55, Galactic_53, Enzomatic_60
- Track 45 : Kimberlium_55, QuickMath_54, SiSi_51, Mantra_49, MulchExplorer_55, Plumbus_55
- Track 46 : Girafales_63
- Track 47 : OldBen_51
- Track 48 : EmiMonkey_51
- Track 49 : Dante_54
- Track 50 : Akhila_45, MilanaBonita_44
- Track 51 : Che8_56
- Track 52 : Mahavrat_51
- Track 53 : Starcevich_53
- Track 54 : SimranZ1_53
- Track 55 : Zizzle_58
- Track 56 : Gorge_58, Saal_56
- Track 57 : Melissauren88_51
- Track 58 : MadMen_51
- Track 59 : Juniper1_51
- Track 60 : PatoPoderoso_50
- Track 61 : Maravista_55
- Track 62 : Bipolar_53
- Track 63 : JalFarm20_65, Flathead_53
- Track 64 : Byougenkin_51
- Track 65 : Fruitloop_51
- Track 66 : DaddyRickover_53
- Track 67 : Mozy_63
- Track 68 : Nitzel_50
- Track 69 : Enby_54, SG4_50
- Track 70 : Bubbles123_51
- Track 71 : Chevrolet_60, ArcusAngelus_57, Lorde_54
- Track 72 : Royals2015_56
- Track 73 : Emma_53
- Track 74 : Stap_52
- Track 75 : Beanstalk_54
- Track 76 : DosHalletts_56
- Track 77 : Wachhund_55
- Track 78 : KingJulian_53, Corium_50
- Track 79 : Tchotchke_54, Spikelee_60
- Track 80 : MinionDave_52, CaptainTrips_50
- Track 81 : Sabbb_58
- Track 82 : Kenuha5_51

- Track 83 : Aubs_54
- Track 84 : Oksu_57, Nichirin_58
- Track 85 : Peridot_55
- Track 86 : DillTech15_50, Fastidio_53
- Track 87 : BobaPhett_57, Jennelsea_51
- Track 88 : Tweety_53
- Track 89 : Polka14_52
- Track 90 : Ms6_48
- Track 91 : DotProduct_49, GigiOuiOui_50
- Track 92 : Madiba_51
- Track 93 : Phasih_52
- Track 94 : Marker_54
- Track 95 : Beakin_55
- Track 96 : KristaRAM_56
- Track 97 : VRedHorse_53
- Track 98 : Wee_56
- Track 99 : Bobi_56, Harley_55
- Track 100 : Hegedechwinu_53
- Track 101 : Ovechkin_50
- Track 102 : Mutaforma13_57
- Track 103 : IbOuu_53
- Track 104 : Brushbloom_56
- Track 105 : Violac_56
- Track 106 : Krakatau_51
- Track 107 : Hamulus_54
- Track 108 : Eish_58
- Track 109 : DoRead_55
- Track 110 : PhlipPhlop_53
- Track 111 : MilleniumForce_57
- Track 112 : Juice456_54
- Track 113 : Demsculpinboyz_63
- Track 114 : Jabbawokkie_67, Zapner_66
- Track 115 : Soul22_57
- Track 116 : Yoshi_65
- Track 117 : Che9d_60
- Track 118 : Avani_61
- Track 119 : LunaStella_51, TChen_53
- Track 120 : Renaud18_59
- Track 121 : ThetaBob_57
- Track 122 : Cornie_48, Cheese puff_59
- Track 123 : Toron_57
- Track 124 : Okabe_48
- Track 125 : MooMoo_51

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

The start number called the most often in the published annotations is 31, it was called in 146 of the 196 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akhila_45, Alexphander_58, AlpineSix_58, ArcusAngelus_57, Ardmore_45, Beakin_55, BigPhil_49, BobaPhett_57, Bobi_56, BodEinwohner17_54, Boomer_58, Brocalys_49, Brookers_50, Bubbles123_51, Burwell21_52, Cabrinians_55, CaptainTrips_50, Cerasum_49, Che8_56, CheesePuff_59, Chevrolet_60, Chuckly_56, Clank_58, Clifton_49, Coco12_52, Corium_50, Cornie_48, Cornucopia_56, Crumble_49, DLane_49, DRBy19_57, DaddyRickover_53, Dante_54, DeadP_59, DirtMcGirt_53, DoRead_55, Doomphist_53, Drago_52, Eish_58, EleanorGeorge_52, Emma_53, Enby_54, Enzomatic_60, Firehouse51_54, Flathead_53, FreddyB_55, Fruitloop_51, Galactic_53, Gandolph_56, Girafales_63, Girr_52, Gorge_58, Hades_54, Hamulus_54, Harley_55, Hegedechwinu_53, IbOuu_53, Ibhubesi_53, Inventum_48, Jabbawokkie_67, JalFarm20_65, Jarcob_54, Jennelsea_51, Jinglebell_58, Juniper1_51, Karhdo_51, Kenuha5_51, Kimberlium_55, KingJulian_53, Kingsley_50, Koella_48, Krakatau_51, KristaRAM_56, LastJedi_48, Leozinho_53, LilMoolah_52, Lizziana_60, Llama_58, Llij_50, Lorde_54, Lucia_54, LunaBlu_56, MadMen_51, Mahavrat_51, Mantra_49, Maravista_55, Martik_54, Melissauren88_51, MilanaBonita_44, MilleniumForce_57, MinionDave_52, MisterCuddles_52, Modragons_57, Moonbeam_49, Mova_54, Ms6_48, MulchExplorer_55, Mutaforma13_57, NewHope4_55, Nivrat_50, NormanBulbieJr_54, Ochi17_56, OfUltron_58, OgoPogo_58, Okabe_48, OldBen_51, OwlsT2W_54, PMC_50, Peridot_55, Phasih_52, Phatniss_52, Philus_57, PhilipPhlop_53, Pippy_52, Plumbus_55, Poenanya_53, Polka14_52, Pollywog_54, Polo2Bam_59, Priscilla_54, QuickMath_54, Radiance_53, Renaud18_59, Rockne_54, Royals2015_56, Ruby_50, SG4_50, Saal_56, Sabbb_58, Sandalphon_55, Sarma624_51, Sassafras_51, SeaLumen_58, Seabastian_58, ShiLan_53, ShowerHandel_57, ShroomBoi_55, SiSi_51, SimranZ1_53, Soul22_57, Spikelee_60, StAnnes_52, SwagPiggett_59, Taj_57, Tchotchke_54, Topiatin_59, Tweety_53, UncleRicky_53, VRedHorse_53, Velveteen_48, Violac_56, Vivum_55, Wachhund_55, Wee_56, Whatsapiecost_54, Whouxphf_51, Yorick_53, Yoshi_65, Zapner_66, Zizzle_58,

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

- Brushbloom_56, Doomslug_61, DosHalletts_56, EmiMonkey_51, Juice456_54, MooMoo_51, Ovechkin_50, PatoPoderoso_50, Toron_57,

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

- Aubs_54, Avani_61, Beanstalk_54, Bipolar_53, Blexus_51, Byougenkin_51, Che9d_60, Daenerys_48, Deb65_49, Demsculpinboyz_63, DillTech15_50, DotProduct_49, Empress_52, Estave1_56, Fancypants_56, Fastidio_53, Florida_65, Geralt_49, GigiOuiOui_50, Job42_56, JoeyJr_49, Kersh_55, KingMidas_53, Leperchaun_46, LunaStella_51, Madiba_51, Marker_54, Minnie_58, Mozy_63, Mwanjiwa_59, Nichirin_58, Nimbo_48, Nitzel_50, Oksu_57, PHappiness_49, Pacc40_48, PopTart_47, Quico_62, Ramsey_54, RitaG_49, SassyB_47, Scottish_52, Seagreen_53, Spoonbill_51, Stap_52, Starcevich_53, TChen_53, ThetaBob_57, Tootsieroll_55,

Summary by start number:

Start 5:

- Found in 4 of 218 (1.8%) of genes in pham
- Manual Annotations of this start: 3 of 196
- Called 75.0% of time when present
- Phage (with cluster) where this start called: LunaStella_51 (F4), Minnie_58 (F1), TChen_53 (F4),

Start 7:

- Found in 4 of 218 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 196
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Aubs_54 (F1),

Start 17:

- Found in 7 of 218 (3.2%) of genes in pham
- Manual Annotations of this start: 3 of 196
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Brushbloom_56 (F1), DosHalletts_56 (F1), MooMoo_51 (singleton), Toron_57 (F6),

Start 18:

- Found in 6 of 218 (2.8%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: PatoPoderoso_50 (F1),

Start 28:

- Found in 14 of 218 (6.4%) of genes in pham
- Manual Annotations of this start: 4 of 196
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Doomslug_61 (F), Estave1_56 (F1), Mozy_63 (F1), Mwanjiwa_59 (F1), Ovechkin_50 (F1), ThetaBob_57 (F4),

Start 29:

- Found in 4 of 218 (1.8%) of genes in pham
- Manual Annotations of this start: 2 of 196
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fancypants_56 (F1), Madiba_51 (F1), Nichirin_58 (F1), Oksu_57 (F1),

Start 30:

- Found in 34 of 218 (15.6%) of genes in pham
- Manual Annotations of this start: 33 of 196
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avani_61 (F2), Beanstalk_54 (F1), Blexus_51 (F1), Byougenkin_51 (F1), Che9d_60 (F2), Daenerys_48 (F1), Deb65_49 (F1), Demsculpinboyz_63 (F2), DillTech15_50 (F1), Empress_52 (F1), Fastidio_53 (F1), Florinda_65 (F1), Geralt_49 (F1), Job42_56 (F1), JoeyJr_49 (F1), Kersh_55 (F1), KingMidas_53 (F1), Leperchaun_46 (F1), Marker_54 (F1), Nimbo_48 (F1), Nitzel_50 (F1), PHappiness_49 (F1), Pacc40_48 (F1), PopTart_47 (F1), Quico_62 (F1), Ramsey_54 (F1), RitaG_49 (F1), SassyB_47 (F1), Scottish_52 (F1), Seagreen_53 (F1), Spoonbill_51 (F1), Stap_52 (F1), Starcevich_53 (F1), Tootsieroll_55 (F1),

Start 31:

- Found in 169 of 218 (77.5%) of genes in pham
- Manual Annotations of this start: 146 of 196
- Called 94.7% of time when present
- Phage (with cluster) where this start called: Akhila_45 (F1), Alexphander_58 (F1), AlpineSix_58 (F1), ArcusAngelus_57 (F1), Ardmore_45 (F1), Beakin_55 (F1),

BigPhil_49 (F1), BobaPhett_57 (F1), Bobi_56 (F1), BodEinwohner17_54 (F1), Boomer_58 (F1), Brocalys_49 (F1), Brookers_50 (F1), Bubbles123_51 (F1), Burwell21_52 (F1), Cabrinians_55 (F1), CaptainTrips_50 (F1), Cerasum_49 (F1), Che8_56 (F1), CheesePuff_59 (F1), Chevrolet_60 (F1), Chuckly_56 (F1), Clank_58 (F), Clifton_49 (F1), Coco12_52 (F1), Corium_50 (F1), Cornie_48 (F5), Cornucopia_56 (F1), Crumble_49 (F1), DLane_49 (F1), DRBy19_57 (F1), DaddyRickover_53 (F1), Dante_54 (F1), DeadP_59 (F1), DirtMcGirt_53 (F1), DoRead_55 (F1), Doomphist_53 (F1), Drago_52 (F1), Eish_58 (F1), EleanorGeorge_52 (F1), Emma_53 (F1), Enby_54 (F1), Enzomatic_60 (F1), Firehouse51_54 (F1), Flathead_53 (F1), FreddyB_55 (F1), Fruitloop_51 (F1), Galactic_53 (F1), Gandolph_56 (F1), Girafales_63 (F1), Girr_52 (F1), Gorge_58 (F1), Hades_54 (F1), Hamulus_54 (F1), Harley_55 (F1), Hegedechwinu_53 (F1), lbOuu_53 (F1), lbhubesi_53 (F1), Inventum_48 (F1), Jabbawokkie_67 (F2), JalFarm20_65 (F1), Jarcob_54 (F1), Jennelsea_51 (F1), Jinglebell_58 (F1), Juniper1_51 (F1), Karhdo_51 (F1), Kenuha5_51 (F1), Kimberlium_55 (F1), KingJulian_53 (F1), Kingsley_50 (F1), Koella_48 (F1), Krakatau_51 (F1), KristaRAM_56 (F1), LastJedi_48 (F1), Leozinho_53 (F1), LilMoolah_52 (F1), Lizziana_60 (F1), Llama_58 (F1), Llij_50 (F1), Lorde_54 (F1), Lucia_54 (F1), LunaBlu_56 (F1), MadMen_51 (F1), Mahavrat_51 (F1), Mantra_49 (F1), Maravista_55 (F1), Martik_54 (F1), Melissauren88_51 (F1), MilanaBonita_44 (F1), MilleniumForce_57 (F1), MinionDave_52 (F1), MisterCuddles_52 (F1), Modragons_57 (F1), Moonbeam_49 (F1), Mova_54 (F1), Ms6_48 (F1), MulchExplorer_55 (F1), Mutaforma13_57 (F1), NewHope4_55 (F1), Nivrat_50 (F1), NormanBulbieJr_54 (F1), Ochi17_56 (F1), OfUltron_58 (F1), OgoPogo_58 (F1), Okabe_48 (F8), OldBen_51 (F1), OwlsT2W_54 (F1), PMC_50 (F1), Peridot_55 (F1), Phasih_52 (F1), Phatniss_52 (F1), Philus_57 (F1), PhilipPhlop_53 (F1), Pippy_52 (F1), Plumbus_55 (F1), Poenanya_53 (F1), Polka14_52 (F1), Pollywog_54 (F1), Polo2Bam_59 (F1), Priscilla_54 (F1), QuickMath_54 (F1), Radiance_53 (F1), Renaud18_59 (F4), Rockne_54 (F1), Royals2015_56 (F1), Ruby_50 (F1), SG4_50 (F1), Saal_56 (F1), Sabbb_58 (F1), Sandalphon_55 (F1), Sarma624_51 (F1), Sassafras_51 (F1), SeaLumen_58 (F1), Seabastian_58 (F1), ShiLan_53 (F1), ShowerHandel_57 (F1), ShroomBoi_55 (F1), SiSi_51 (F1), SimranZ1_53 (F1), Soul22_57 (F2), Spikelee_60 (F1), StAnnes_52 (F1), SwagPigglett_59 (F1), Taj_57 (F1), Tchotchke_54 (F1), Topiatin_59 (F1), Tweety_53 (F1), UncleRicky_53 (F1), VRedHorse_53 (F1), Velveteen_48 (F1), Violac_56 (F1), Vivum_55 (F1), Wachhund_55 (F1), Wee_56 (F1), Whatsapiecost_54 (F1), Whouxphf_51 (F1), Yorick_53 (F1), Yoshi_65 (F2), Zapner_66 (F2), Zizzle_58 (F1),

Start 34:

- Found in 196 of 218 (89.9%) of genes in pham
- Manual Annotations of this start: 1 of 196
- Called 0.5% of time when present
- Phage (with cluster) where this start called: Juice456_54 (F1),

Start 37:

- Found in 2 of 218 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 196
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DotProduct_49 (F1), GigiOuiOui_50 (F1),

Start 41:

- Found in 169 of 218 (77.5%) of genes in pham

- No Manual Annotations of this start.
- Called 0.6% of time when present
- Phage (with cluster) where this start called: EmiMonkey_51 (F1),

Start 54:

- Found in 182 of 218 (83.5%) of genes in pham
- Manual Annotations of this start: 1 of 196
- Called 0.5% of time when present
- Phage (with cluster) where this start called: Bipolar_53 (F1),

Summary by clusters:

There are 8 clusters represented in this pham: F1, F2, F4, F5, F6, F, F8, singleton,

Info for manual annotations of cluster F1:

- Start number 5 was manually annotated 1 time for cluster F1.
- Start number 7 was manually annotated 1 time for cluster F1.
- Start number 17 was manually annotated 2 times for cluster F1.
- Start number 28 was manually annotated 3 times for cluster F1.
- Start number 29 was manually annotated 2 times for cluster F1.
- Start number 30 was manually annotated 30 times for cluster F1.
- Start number 31 was manually annotated 140 times for cluster F1.
- Start number 34 was manually annotated 1 time for cluster F1.
- Start number 37 was manually annotated 2 times for cluster F1.
- Start number 54 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 30 was manually annotated 3 times for cluster F2.
- Start number 31 was manually annotated 4 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 5 was manually annotated 2 times for cluster F4.
- Start number 28 was manually annotated 1 time for cluster F4.
- Start number 31 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster F5:

- Start number 31 was manually annotated 1 time for cluster F5.

Gene Information:

Gene: Akhila_45 Start: 33238, Stop: 33918, Start Num: 31

Candidate Starts for Akhila_45:

(Start: 31 @33238 has 146 MA's), (32, 33256), (Start: 34 @33277 has 1 MA's), (39, 33298), (41, 33301), (43, 33310), (46, 33313), (53, 33349), (Start: 54 @33361 has 1 MA's), (78, 33418), (122, 33526), (132, 33580), (137, 33607), (145, 33661), (150, 33730), (151, 33736), (155, 33781), (162, 33811), (174, 33859),

Gene: Alexphander_58 Start: 38096, Stop: 38746, Start Num: 31

Candidate Starts for Alexphander_58:

(Start: 31 @38096 has 146 MA's), (32, 38114), (Start: 34 @38135 has 1 MA's), (39, 38156), (41, 38159), (43, 38168), (46, 38171), (48, 38183), (53, 38207), (Start: 54 @38219 has 1 MA's), (60, 38237), (114, 38384), (132, 38438), (137, 38465), (150, 38558), (151, 38564), (155, 38609), (162, 38639), (174, 38687),

Gene: AlpineSix_58 Start: 39417, Stop: 40004, Start Num: 31

Candidate Starts for AlpineSix_58:

(23, 39387), (Start: 31 @39417 has 146 MA's), (32, 39435), (Start: 34 @39456 has 1 MA's), (46, 39492), (53, 39528), (Start: 54 @39540 has 1 MA's), (60, 39558), (68, 39579), (78, 39597), (132, 39663), (137, 39690), (150, 39813), (151, 39819), (182, 39957),

Gene: ArcusAngelus_57 Start: 38680, Stop: 39342, Start Num: 31

Candidate Starts for ArcusAngelus_57:

(Start: 31 @38680 has 146 MA's), (32, 38698), (Start: 34 @38719 has 1 MA's), (39, 38740), (41, 38743), (43, 38752), (46, 38755), (53, 38791), (Start: 54 @38803 has 1 MA's), (60, 38821), (62, 38842), (65, 38848), (72, 38878), (80, 38917), (81, 38923), (131, 39004), (133, 39010), (134, 39019), (150, 39154), (151, 39160), (155, 39205), (162, 39235), (174, 39283),

Gene: Ardmore_45 Start: 35444, Stop: 36049, Start Num: 31

Candidate Starts for Ardmore_45:

(Start: 31 @35444 has 146 MA's), (32, 35462), (Start: 34 @35483 has 1 MA's), (39, 35504), (41, 35507), (43, 35516), (46, 35519), (48, 35531), (53, 35555), (Start: 54 @35567 has 1 MA's), (72, 35585), (80, 35624), (81, 35630), (131, 35711), (133, 35717), (134, 35726), (150, 35861), (151, 35867), (155, 35912), (162, 35942), (174, 35990),

Gene: Aubs_54 Start: 37500, Stop: 38252, Start Num: 7

Candidate Starts for Aubs_54:

(Start: 5 @37461 has 3 MA's), (6, 37479), (Start: 7 @37500 has 1 MA's), (8, 37521), (9, 37524), (10, 37533), (11, 37536), (12, 37548), (13, 37572), (15, 37584), (21, 37602), (24, 37623), (27, 37629), (33, 37674), (49, 37728), (72, 37788), (80, 37827), (81, 37833), (131, 37914), (133, 37920), (134, 37929), (150, 38064), (151, 38070), (155, 38115), (162, 38145), (167, 38175), (174, 38193),

Gene: Avani_61 Start: 37581, Stop: 38282, Start Num: 30

Candidate Starts for Avani_61:

(23, 37551), (Start: 30 @37581 has 33 MA's), (32, 37599), (Start: 34 @37620 has 1 MA's), (39, 37641), (41, 37644), (43, 37653), (46, 37656), (51, 37677), (53, 37692), (Start: 54 @37704 has 1 MA's), (68, 37743), (75, 37749), (95, 37860), (124, 37872), (132, 37920), (137, 37947), (150, 38094), (151, 38100), (155, 38145), (162, 38175), (174, 38223),

Gene: Beakin_55 Start: 37066, Stop: 37683, Start Num: 31

Candidate Starts for Beakin_55:

(Start: 17 @37015 has 3 MA's), (20, 37024), (26, 37054), (Start: 28 @37063 has 4 MA's), (Start: 31 @37066 has 146 MA's), (32, 37084), (Start: 34 @37096 has 1 MA's), (39, 37117), (41, 37120), (43, 37129), (46, 37132), (47, 37141), (53, 37168), (60, 37198), (68, 37219), (75, 37225), (78, 37237), (132, 37297), (137, 37324), (150, 37483), (151, 37489), (155, 37534), (158, 37552), (162, 37567), (165, 37573),

Gene: Beanstalk_54 Start: 36451, Stop: 37065, Start Num: 30

Candidate Starts for Beanstalk_54:

(23, 36421), (Start: 30 @36451 has 33 MA's), (32, 36469), (Start: 34 @36490 has 1 MA's), (39, 36511), (41, 36514), (43, 36523), (46, 36526), (48, 36538), (51, 36547), (53, 36562), (60, 36592), (68, 36613), (75, 36619), (132, 36691), (137, 36718), (150, 36877), (151, 36883), (153, 36904), (155, 36928), (162,

36958), (174, 37006),

Gene: BigPhil_49 Start: 33538, Stop: 34161, Start Num: 31

Candidate Starts for BigPhil_49:

(Start: 31 @33538 has 146 MA's), (32, 33556), (Start: 34 @33577 has 1 MA's), (39, 33598), (41, 33601), (43, 33610), (46, 33613), (48, 33625), (51, 33634), (53, 33649), (Start: 54 @33661 has 1 MA's), (68, 33700), (75, 33706), (78, 33718), (132, 33784), (137, 33811), (150, 33970), (151, 33976), (165, 34060), (182, 34114),

Gene: Bipolar_53 Start: 37987, Stop: 38499, Start Num: 54

Candidate Starts for Bipolar_53:

(Start: 54 @37987 has 1 MA's), (58, 37996), (66, 38026), (68, 38035), (71, 38038), (77, 38056), (79, 38077), (102, 38098), (104, 38101), (105, 38110), (109, 38113), (129, 38149), (130, 38161), (150, 38311), (151, 38317), (155, 38362), (162, 38392), (174, 38440),

Gene: Blexus_51 Start: 37239, Stop: 37844, Start Num: 30

Candidate Starts for Blexus_51:

(23, 37209), (Start: 30 @37239 has 33 MA's), (32, 37257), (Start: 34 @37269 has 1 MA's), (39, 37290), (41, 37293), (43, 37302), (46, 37305), (48, 37317), (51, 37326), (53, 37341), (60, 37371), (68, 37392), (75, 37398), (132, 37470), (137, 37497), (150, 37656), (151, 37662), (155, 37707), (162, 37737), (174, 37785),

Gene: BobaPhett_57 Start: 40029, Stop: 40682, Start Num: 31

Candidate Starts for BobaPhett_57:

(Start: 31 @40029 has 146 MA's), (32, 40047), (Start: 34 @40068 has 1 MA's), (39, 40089), (41, 40092), (43, 40101), (46, 40104), (53, 40140), (Start: 54 @40152 has 1 MA's), (132, 40275), (137, 40302), (150, 40461), (151, 40467), (158, 40530),

Gene: Bobi_56 Start: 38447, Stop: 39109, Start Num: 31

Candidate Starts for Bobi_56:

(Start: 31 @38447 has 146 MA's), (32, 38465), (Start: 34 @38486 has 1 MA's), (39, 38507), (41, 38510), (43, 38519), (46, 38522), (53, 38558), (Start: 54 @38570 has 1 MA's), (60, 38588), (72, 38645), (80, 38684), (81, 38690), (131, 38771), (133, 38777), (134, 38786), (150, 38921), (151, 38927), (155, 38972), (162, 39002), (174, 39050),

Gene: BodEinwohner17_54 Start: 37181, Stop: 37786, Start Num: 31

Candidate Starts for BodEinwohner17_54:

(23, 37151), (Start: 31 @37181 has 146 MA's), (32, 37199), (Start: 34 @37220 has 1 MA's), (38, 37235), (43, 37253), (46, 37256), (48, 37268), (53, 37292), (Start: 54 @37304 has 1 MA's), (72, 37322), (80, 37361), (81, 37367), (131, 37448), (133, 37454), (134, 37463), (150, 37598), (151, 37604), (155, 37649), (162, 37679), (174, 37727),

Gene: Boomer_58 Start: 39232, Stop: 39855, Start Num: 31

Candidate Starts for Boomer_58:

(Start: 31 @39232 has 146 MA's), (32, 39250), (Start: 34 @39271 has 1 MA's), (39, 39292), (41, 39295), (43, 39304), (46, 39307), (48, 39319), (51, 39328), (53, 39343), (Start: 54 @39355 has 1 MA's), (68, 39394), (75, 39400), (78, 39412), (132, 39478), (137, 39505), (150, 39664), (151, 39670), (165, 39754), (182, 39808),

Gene: Brocalys_49 Start: 34514, Stop: 35161, Start Num: 31

Candidate Starts for Brocalys_49:

(23, 34484), (Start: 31 @34514 has 146 MA's), (32, 34532), (Start: 34 @34553 has 1 MA's), (39, 34574), (41, 34577), (43, 34586), (46, 34589), (53, 34625), (Start: 54 @34637 has 1 MA's), (68,

34676), (132, 34754), (137, 34781), (150, 34940), (151, 34946), (158, 35009),

Gene: Brookers_50 Start: 36489, Stop: 37112, Start Num: 31

Candidate Starts for Brookers_50:

(Start: 31 @36489 has 146 MA's), (32, 36507), (Start: 34 @36528 has 1 MA's), (39, 36549), (41, 36552), (43, 36561), (46, 36564), (48, 36576), (51, 36585), (53, 36600), (Start: 54 @36612 has 1 MA's), (68, 36651), (75, 36657), (78, 36669), (132, 36735), (137, 36762), (150, 36921), (151, 36927), (165, 37011), (182, 37065),

Gene: Brushbloom_56 Start: 38072, Stop: 38854, Start Num: 17

Candidate Starts for Brushbloom_56:

(Start: 17 @38072 has 3 MA's), (22, 38090), (27, 38114), (Start: 31 @38123 has 146 MA's), (35, 38168), (36, 38171), (44, 38210), (46, 38219), (73, 38285), (76, 38291), (89, 38336), (111, 38393), (135, 38522), (146, 38609), (150, 38666), (155, 38717), (158, 38735), (165, 38756), (169, 38786), (179, 38798),

Gene: Bubbles123_51 Start: 37879, Stop: 38607, Start Num: 31

Candidate Starts for Bubbles123_51:

(Start: 31 @37879 has 146 MA's), (32, 37897), (Start: 34 @37918 has 1 MA's), (39, 37939), (41, 37942), (43, 37951), (46, 37954), (53, 37990), (Start: 54 @38002 has 1 MA's), (88, 38122), (90, 38131), (91, 38137), (99, 38173), (105, 38197), (132, 38269), (137, 38296), (145, 38350), (150, 38419), (151, 38425), (155, 38470), (162, 38500), (174, 38548),

Gene: Burwell21_52 Start: 37612, Stop: 38259, Start Num: 31

Candidate Starts for Burwell21_52:

(23, 37582), (Start: 31 @37612 has 146 MA's), (32, 37630), (Start: 34 @37651 has 1 MA's), (41, 37675), (43, 37684), (46, 37687), (53, 37723), (Start: 54 @37735 has 1 MA's), (68, 37774), (132, 37852), (137, 37879), (150, 38038), (151, 38044), (158, 38107),

Gene: Byougenkin_51 Start: 37130, Stop: 37723, Start Num: 30

Candidate Starts for Byougenkin_51:

(Start: 30 @37130 has 33 MA's), (32, 37148), (Start: 34 @37169 has 1 MA's), (43, 37202), (46, 37205), (53, 37241), (Start: 54 @37253 has 1 MA's), (68, 37292), (132, 37370), (137, 37397), (149, 37502), (150, 37523), (151, 37529), (155, 37574), (158, 37592), (162, 37607), (165, 37613),

Gene: Cabrinians_55 Start: 37690, Stop: 38337, Start Num: 31

Candidate Starts for Cabrinians_55:

(23, 37660), (Start: 31 @37690 has 146 MA's), (32, 37708), (Start: 34 @37729 has 1 MA's), (41, 37753), (43, 37762), (46, 37765), (53, 37801), (Start: 54 @37813 has 1 MA's), (68, 37852), (132, 37930), (137, 37957), (150, 38116), (151, 38122), (158, 38185),

Gene: CaptainTrips_50 Start: 36293, Stop: 37006, Start Num: 31

Candidate Starts for CaptainTrips_50:

(Start: 31 @36293 has 146 MA's), (32, 36311), (Start: 34 @36332 has 1 MA's), (39, 36353), (41, 36356), (43, 36365), (46, 36368), (53, 36404), (Start: 54 @36416 has 1 MA's), (84, 36503), (91, 36539), (96, 36563), (132, 36635), (137, 36662), (147, 36743), (150, 36818), (151, 36824), (153, 36845), (155, 36869), (162, 36899), (174, 36947),

Gene: Cerasum_49 Start: 33556, Stop: 34179, Start Num: 31

Candidate Starts for Cerasum_49:

(Start: 31 @33556 has 146 MA's), (32, 33574), (Start: 34 @33595 has 1 MA's), (39, 33616), (41, 33619), (43, 33628), (46, 33631), (48, 33643), (51, 33652), (53, 33667), (Start: 54 @33679 has 1 MA's), (68, 33718), (75, 33724), (78, 33736), (132, 33802), (137, 33829), (150, 33988), (151, 33994),

(165, 34078), (182, 34132),

Gene: Che8_56 Start: 38547, Stop: 39161, Start Num: 31

Candidate Starts for Che8_56:

(Start: 31 @38547 has 146 MA's), (32, 38565), (Start: 34 @38586 has 1 MA's), (39, 38607), (43, 38619), (46, 38622), (51, 38643), (53, 38658), (68, 38709), (75, 38715), (78, 38727), (132, 38787), (137, 38814), (150, 38961), (151, 38967), (155, 39012), (158, 39030), (162, 39045), (165, 39051),

Gene: Che9d_60 Start: 37007, Stop: 37564, Start Num: 30

Candidate Starts for Che9d_60:

(14, 36953), (Start: 30 @37007 has 33 MA's), (32, 37025), (Start: 34 @37046 has 1 MA's), (39, 37067), (41, 37070), (46, 37082), (48, 37094), (53, 37118), (Start: 54 @37130 has 1 MA's), (68, 37169), (75, 37175), (132, 37253), (137, 37280), (150, 37364), (151, 37370), (155, 37415), (158, 37433), (162, 37448), (165, 37454),

Gene: Cheesepuff_59 Start: 39214, Stop: 39894, Start Num: 31

Candidate Starts for Cheesepuff_59:

(Start: 31 @39214 has 146 MA's), (32, 39232), (Start: 34 @39253 has 1 MA's), (39, 39274), (41, 39277), (43, 39286), (46, 39289), (53, 39325), (Start: 54 @39337 has 1 MA's), (78, 39394), (122, 39502), (132, 39556), (137, 39583), (145, 39637), (150, 39706), (151, 39712), (155, 39757), (162, 39787), (174, 39835),

Gene: Chevrolet_60 Start: 38681, Stop: 39343, Start Num: 31

Candidate Starts for Chevrolet_60:

(Start: 31 @38681 has 146 MA's), (32, 38699), (Start: 34 @38720 has 1 MA's), (39, 38741), (41, 38744), (43, 38753), (46, 38756), (53, 38792), (Start: 54 @38804 has 1 MA's), (60, 38822), (62, 38843), (65, 38849), (72, 38879), (80, 38918), (81, 38924), (131, 39005), (133, 39011), (134, 39020), (150, 39155), (151, 39161), (155, 39206), (162, 39236), (174, 39284),

Gene: Chuckly_56 Start: 38038, Stop: 38685, Start Num: 31

Candidate Starts for Chuckly_56:

(Start: 31 @38038 has 146 MA's), (32, 38056), (Start: 34 @38077 has 1 MA's), (39, 38098), (41, 38101), (43, 38110), (46, 38113), (53, 38149), (60, 38179), (68, 38200), (75, 38206), (78, 38218), (132, 38278), (137, 38305), (150, 38464), (151, 38470), (158, 38533),

Gene: Clank_58 Start: 38368, Stop: 39015, Start Num: 31

Candidate Starts for Clank_58:

(Start: 31 @38368 has 146 MA's), (32, 38386), (Start: 34 @38407 has 1 MA's), (39, 38428), (41, 38431), (43, 38440), (46, 38443), (53, 38479), (60, 38509), (68, 38530), (75, 38536), (78, 38548), (132, 38608), (137, 38635), (150, 38794), (151, 38800), (158, 38863),

Gene: Clifton_49 Start: 34865, Stop: 35512, Start Num: 31

Candidate Starts for Clifton_49:

(23, 34835), (Start: 31 @34865 has 146 MA's), (32, 34883), (Start: 34 @34904 has 1 MA's), (39, 34925), (41, 34928), (43, 34937), (46, 34940), (53, 34976), (Start: 54 @34988 has 1 MA's), (68, 35027), (132, 35105), (137, 35132), (150, 35291), (151, 35297), (158, 35360),

Gene: Coco12_52 Start: 37613, Stop: 38236, Start Num: 31

Candidate Starts for Coco12_52:

(Start: 31 @37613 has 146 MA's), (32, 37631), (Start: 34 @37652 has 1 MA's), (39, 37673), (41, 37676), (43, 37685), (46, 37688), (48, 37700), (51, 37709), (53, 37724), (Start: 54 @37736 has 1 MA's), (68, 37775), (75, 37781), (78, 37793), (132, 37859), (137, 37886), (150, 38045), (151, 38051), (165, 38135), (182, 38189),

Gene: Corium_50 Start: 36569, Stop: 37195, Start Num: 31

Candidate Starts for Corium_50:

(15, 36518), (18, 36527), (26, 36557), (Start: 28 @36566 has 4 MA's), (Start: 31 @36569 has 146 MA's), (32, 36587), (Start: 34 @36599 has 1 MA's), (39, 36620), (41, 36623), (43, 36632), (46, 36635), (47, 36644), (53, 36671), (Start: 54 @36683 has 1 MA's), (88, 36803), (132, 36875), (137, 36902), (150, 36995), (151, 37001), (155, 37046), (158, 37064), (162, 37079), (165, 37085),

Gene: Cornie_48 Start: 35673, Stop: 36353, Start Num: 31

Candidate Starts for Cornie_48:

(Start: 31 @35673 has 146 MA's), (32, 35691), (Start: 34 @35712 has 1 MA's), (39, 35733), (41, 35736), (43, 35745), (46, 35748), (53, 35784), (Start: 54 @35796 has 1 MA's), (78, 35853), (122, 35961), (132, 36015), (137, 36042), (145, 36096), (150, 36165), (151, 36171), (155, 36216), (162, 36246), (174, 36294),

Gene: Cornucopia_56 Start: 38383, Stop: 38988, Start Num: 31

Candidate Starts for Cornucopia_56:

(Start: 31 @38383 has 146 MA's), (32, 38401), (Start: 34 @38422 has 1 MA's), (39, 38443), (41, 38446), (43, 38455), (46, 38458), (48, 38470), (53, 38494), (Start: 54 @38506 has 1 MA's), (72, 38524), (80, 38563), (81, 38569), (131, 38650), (133, 38656), (134, 38665), (150, 38800), (151, 38806), (155, 38851), (162, 38881), (174, 38929),

Gene: Crumble_49 Start: 33626, Stop: 34273, Start Num: 31

Candidate Starts for Crumble_49:

(23, 33596), (Start: 31 @33626 has 146 MA's), (32, 33644), (Start: 34 @33665 has 1 MA's), (41, 33689), (43, 33698), (46, 33701), (53, 33737), (Start: 54 @33749 has 1 MA's), (68, 33788), (132, 33866), (137, 33893), (150, 34052), (151, 34058), (158, 34121),

Gene: DLane_49 Start: 36378, Stop: 37049, Start Num: 31

Candidate Starts for DLane_49:

(Start: 31 @36378 has 146 MA's), (32, 36396), (Start: 34 @36417 has 1 MA's), (39, 36438), (41, 36441), (43, 36450), (46, 36453), (53, 36489), (Start: 54 @36501 has 1 MA's), (78, 36558), (114, 36666), (132, 36720), (137, 36747), (150, 36870), (151, 36876), (165, 36960), (182, 37002),

Gene: DRBy19_57 Start: 38817, Stop: 39434, Start Num: 31

Candidate Starts for DRBy19_57:

(Start: 31 @38817 has 146 MA's), (32, 38835), (Start: 34 @38856 has 1 MA's), (39, 38877), (41, 38880), (43, 38889), (46, 38892), (48, 38904), (53, 38928), (Start: 54 @38940 has 1 MA's), (72, 38958), (80, 38997), (81, 39003), (131, 39084), (133, 39090), (134, 39099), (150, 39234), (151, 39240), (155, 39285), (158, 39303), (162, 39318), (165, 39324),

Gene: DaddyRickover_53 Start: 37900, Stop: 38478, Start Num: 31

Candidate Starts for DaddyRickover_53:

(Start: 31 @37900 has 146 MA's), (32, 37918), (39, 37960), (46, 37975), (51, 37996), (53, 38011), (Start: 54 @38023 has 1 MA's), (60, 38041), (68, 38062), (75, 38068), (132, 38140), (137, 38167), (145, 38221), (150, 38290), (151, 38296), (155, 38341), (162, 38371), (167, 38401), (174, 38419),

Gene: Daenerys_48 Start: 35908, Stop: 36597, Start Num: 30

Candidate Starts for Daenerys_48:

(23, 35878), (Start: 30 @35908 has 33 MA's), (32, 35926), (Start: 34 @35947 has 1 MA's), (39, 35968), (41, 35971), (43, 35980), (46, 35983), (48, 35995), (53, 36019), (Start: 54 @36031 has 1 MA's), (88, 36151), (132, 36223), (137, 36250), (150, 36409), (151, 36415), (155, 36460), (162, 36490), (174, 36538),

Gene: Dante_54 Start: 37263, Stop: 38090, Start Num: 31

Candidate Starts for Dante_54:

(Start: 31 @37263 has 146 MA's), (32, 37281), (Start: 34 @37302 has 1 MA's), (41, 37326), (43, 37335), (46, 37338), (53, 37374), (Start: 54 @37386 has 1 MA's), (68, 37425), (88, 37506), (93, 37533), (132, 37725), (137, 37752), (150, 37911), (151, 37917), (165, 38001), (182, 38043),

Gene: DeadP_59 Start: 39156, Stop: 39872, Start Num: 31

Candidate Starts for DeadP_59:

(Start: 31 @39156 has 146 MA's), (32, 39174), (38, 39210), (39, 39216), (42, 39231), (43, 39237), (46, 39252), (48, 39264), (51, 39273), (53, 39288), (59, 39312), (102, 39450), (112, 39462), (132, 39510), (137, 39537), (150, 39684), (151, 39690), (155, 39735), (158, 39753), (165, 39774), (171, 39804), (177, 39816),

Gene: Deb65_49 Start: 35877, Stop: 36566, Start Num: 30

Candidate Starts for Deb65_49:

(23, 35847), (Start: 30 @35877 has 33 MA's), (32, 35895), (Start: 34 @35916 has 1 MA's), (39, 35937), (41, 35940), (43, 35949), (46, 35952), (48, 35964), (53, 35988), (Start: 54 @36000 has 1 MA's), (88, 36120), (132, 36192), (137, 36219), (150, 36378), (151, 36384), (155, 36429), (162, 36459), (174, 36507),

Gene: Demsculpinboyz_63 Start: 37137, Stop: 37874, Start Num: 30

Candidate Starts for Demsculpinboyz_63:

(Start: 30 @37137 has 33 MA's), (32, 37155), (Start: 34 @37176 has 1 MA's), (39, 37197), (41, 37200), (43, 37209), (46, 37212), (53, 37248), (Start: 54 @37260 has 1 MA's), (88, 37380), (91, 37395), (93, 37407), (117, 37431), (120, 37455), (123, 37476), (132, 37527), (137, 37554), (145, 37605), (150, 37674), (151, 37680), (155, 37725), (158, 37743), (162, 37758), (165, 37764),

Gene: DillTech15_50 Start: 36028, Stop: 36630, Start Num: 30

Candidate Starts for DillTech15_50:

(23, 35998), (Start: 30 @36028 has 33 MA's), (32, 36046), (Start: 34 @36067 has 1 MA's), (38, 36082), (43, 36100), (46, 36103), (53, 36139), (Start: 54 @36151 has 1 MA's), (60, 36169), (68, 36190), (132, 36268), (137, 36295), (150, 36442), (151, 36448), (155, 36493), (156, 36508), (162, 36523), (174, 36571),

Gene: DirtMcgirt_53 Start: 36388, Stop: 36972, Start Num: 31

Candidate Starts for DirtMcgirt_53:

(Start: 31 @36388 has 146 MA's), (32, 36406), (Start: 34 @36427 has 1 MA's), (39, 36448), (41, 36451), (43, 36460), (46, 36463), (53, 36499), (Start: 54 @36511 has 1 MA's), (132, 36634), (137, 36661), (145, 36715), (150, 36784), (151, 36790), (155, 36835), (162, 36865), (174, 36913),

Gene: DoRead_55 Start: 36444, Stop: 37262, Start Num: 31

Candidate Starts for DoRead_55:

(Start: 31 @36444 has 146 MA's), (32, 36462), (Start: 34 @36483 has 1 MA's), (38, 36498), (43, 36516), (46, 36519), (51, 36540), (53, 36555), (60, 36585), (68, 36606), (75, 36612), (97, 36681), (110, 36720), (114, 36732), (118, 36780), (132, 36855), (137, 36882), (150, 37041), (151, 37047), (155, 37092), (158, 37110),

Gene: Doomphist_53 Start: 38418, Stop: 39137, Start Num: 31

Candidate Starts for Doomphist_53:

(Start: 31 @38418 has 146 MA's), (32, 38436), (Start: 34 @38457 has 1 MA's), (39, 38478), (41, 38481), (43, 38490), (46, 38493), (53, 38529), (Start: 54 @38541 has 1 MA's), (60, 38559), (68, 38580), (75, 38586), (87, 38655), (94, 38694), (97, 38706), (113, 38754), (132, 38829), (137, 38856),

(150, 38949), (151, 38955), (155, 39000), (162, 39030), (174, 39078),

Gene: Doomslug_61 Start: 37233, Stop: 38018, Start Num: 28

Candidate Starts for Doomslug_61:

(15, 37185), (18, 37194), (26, 37224), (Start: 28 @37233 has 4 MA's), (Start: 31 @37236 has 146 MA's), (32, 37254), (Start: 34 @37275 has 1 MA's), (39, 37296), (41, 37299), (43, 37308), (46, 37311), (53, 37347), (Start: 54 @37359 has 1 MA's), (88, 37479), (93, 37506), (132, 37698), (137, 37725), (150, 37818), (151, 37824), (155, 37869), (158, 37887), (180, 37968),

Gene: DosHalletts_56 Start: 38883, Stop: 39794, Start Num: 17

Candidate Starts for DosHalletts_56:

(Start: 17 @38883 has 3 MA's), (22, 38901), (27, 38925), (Start: 31 @38934 has 146 MA's), (36, 38982), (44, 39021), (46, 39030), (52, 39063), (55, 39096), (57, 39099), (67, 39144), (69, 39156), (111, 39333), (135, 39462), (146, 39549), (150, 39606), (155, 39657), (163, 39687), (179, 39735),

Gene: DotProduct_49 Start: 36494, Stop: 37054, Start Num: 37

Candidate Starts for DotProduct_49:

(Start: 37 @36494 has 2 MA's), (40, 36509), (41, 36512), (43, 36521), (46, 36524), (48, 36536), (53, 36560), (Start: 54 @36572 has 1 MA's), (72, 36590), (80, 36629), (81, 36635), (131, 36716), (133, 36722), (134, 36731), (150, 36866), (151, 36872), (155, 36917), (162, 36947), (174, 36995),

Gene: Drago_52 Start: 36391, Stop: 36975, Start Num: 31

Candidate Starts for Drago_52:

(Start: 31 @36391 has 146 MA's), (32, 36409), (Start: 34 @36430 has 1 MA's), (39, 36451), (41, 36454), (43, 36463), (46, 36466), (53, 36502), (Start: 54 @36514 has 1 MA's), (132, 36637), (137, 36664), (145, 36718), (150, 36787), (151, 36793), (155, 36838), (162, 36868), (174, 36916),

Gene: Eish_58 Start: 38625, Stop: 39248, Start Num: 31

Candidate Starts for Eish_58:

(Start: 31 @38625 has 146 MA's), (32, 38643), (Start: 34 @38664 has 1 MA's), (39, 38685), (41, 38688), (43, 38697), (46, 38700), (48, 38712), (51, 38721), (53, 38736), (Start: 54 @38748 has 1 MA's), (68, 38787), (75, 38793), (78, 38805), (132, 38871), (137, 38898), (150, 39057), (151, 39063), (165, 39147),

Gene: EleanorGeorge_52 Start: 36852, Stop: 37499, Start Num: 31

Candidate Starts for EleanorGeorge_52:

(Start: 31 @36852 has 146 MA's), (Start: 34 @36891 has 1 MA's), (41, 36915), (43, 36924), (46, 36927), (53, 36963), (Start: 54 @36975 has 1 MA's), (68, 37014), (132, 37092), (137, 37119), (150, 37278), (151, 37284), (158, 37347),

Gene: EmiMonkey_51 Start: 38692, Stop: 39168, Start Num: 41

Candidate Starts for EmiMonkey_51:

(Start: 31 @38629 has 146 MA's), (32, 38647), (Start: 34 @38668 has 1 MA's), (39, 38689), (41, 38692), (43, 38701), (46, 38704), (48, 38716), (53, 38740), (Start: 54 @38752 has 1 MA's), (68, 38791), (75, 38797), (78, 38809), (132, 38869), (137, 38896), (150, 38989), (151, 38995), (165, 39079), (182, 39121),

Gene: Emma_53 Start: 36635, Stop: 37219, Start Num: 31

Candidate Starts for Emma_53:

(Start: 31 @36635 has 146 MA's), (32, 36653), (Start: 34 @36674 has 1 MA's), (39, 36695), (41, 36698), (43, 36707), (46, 36710), (53, 36746), (Start: 54 @36758 has 1 MA's), (60, 36776), (132, 36881), (137, 36908), (144, 36962), (150, 37031), (151, 37037), (155, 37082), (158, 37100), (165, 37121), (171, 37151), (177, 37163),

Gene: Empress_52 Start: 37322, Stop: 38011, Start Num: 30

Candidate Starts for Empress_52:

(23, 37292), (Start: 30 @37322 has 33 MA's), (32, 37340), (Start: 34 @37361 has 1 MA's), (39, 37382), (41, 37385), (43, 37394), (46, 37397), (48, 37409), (53, 37433), (Start: 54 @37445 has 1 MA's), (88, 37565), (132, 37637), (137, 37664), (150, 37823), (151, 37829), (155, 37874), (162, 37904), (174, 37952),

Gene: Enby_54 Start: 35779, Stop: 36441, Start Num: 31

Candidate Starts for Enby_54:

(Start: 31 @35779 has 146 MA's), (32, 35797), (Start: 34 @35818 has 1 MA's), (39, 35839), (41, 35842), (43, 35851), (46, 35854), (53, 35890), (Start: 54 @35902 has 1 MA's), (60, 35920), (62, 35941), (65, 35947), (72, 35977), (80, 36016), (81, 36022), (131, 36103), (133, 36109), (134, 36118), (150, 36253), (151, 36259), (155, 36304), (162, 36334), (167, 36364), (174, 36382),

Gene: Enzomatic_60 Start: 37497, Stop: 38108, Start Num: 31

Candidate Starts for Enzomatic_60:

(23, 37467), (Start: 31 @37497 has 146 MA's), (32, 37515), (Start: 34 @37536 has 1 MA's), (39, 37557), (41, 37560), (43, 37569), (46, 37572), (53, 37608), (Start: 54 @37620 has 1 MA's), (68, 37659), (75, 37665), (132, 37737), (137, 37764), (150, 37887), (151, 37893), (158, 37956),

Gene: Estave1_56 Start: 37990, Stop: 38661, Start Num: 28

Candidate Starts for Estave1_56:

(Start: 28 @37990 has 4 MA's), (32, 38008), (Start: 34 @38029 has 1 MA's), (39, 38050), (41, 38053), (43, 38062), (46, 38065), (51, 38086), (53, 38101), (59, 38125), (102, 38263), (112, 38275), (132, 38323), (137, 38350), (144, 38404), (150, 38473), (151, 38479), (155, 38524), (158, 38542), (165, 38563), (171, 38593), (177, 38605),

Gene: Fancypants_56 Start: 38391, Stop: 38969, Start Num: 29

Candidate Starts for Fancypants_56:

(Start: 29 @38391 has 2 MA's), (32, 38409), (Start: 34 @38430 has 1 MA's), (39, 38451), (41, 38454), (43, 38463), (46, 38466), (48, 38478), (53, 38502), (Start: 54 @38514 has 1 MA's), (60, 38532), (68, 38553), (75, 38559), (137, 38658), (150, 38778), (151, 38784), (165, 38868),

Gene: Fastidio_53 Start: 36175, Stop: 36777, Start Num: 30

Candidate Starts for Fastidio_53:

(23, 36145), (Start: 30 @36175 has 33 MA's), (32, 36193), (Start: 34 @36214 has 1 MA's), (38, 36229), (43, 36247), (46, 36250), (53, 36286), (Start: 54 @36298 has 1 MA's), (60, 36316), (68, 36337), (132, 36415), (137, 36442), (150, 36589), (151, 36595), (155, 36640), (156, 36655), (162, 36670), (174, 36718),

Gene: Firehouse51_54 Start: 40200, Stop: 40946, Start Num: 31

Candidate Starts for Firehouse51_54:

(Start: 31 @40200 has 146 MA's), (32, 40218), (Start: 34 @40239 has 1 MA's), (41, 40263), (47, 40284), (53, 40311), (Start: 54 @40323 has 1 MA's), (68, 40362), (75, 40368), (87, 40437), (94, 40476), (97, 40488), (113, 40536), (132, 40611), (137, 40638), (145, 40689), (150, 40758), (151, 40764), (155, 40809), (162, 40839), (167, 40869), (174, 40887),

Gene: Flathead_53 Start: 37749, Stop: 38234, Start Num: 31

Candidate Starts for Flathead_53:

(Start: 31 @37749 has 146 MA's), (32, 37767), (Start: 34 @37788 has 1 MA's), (39, 37809), (41, 37812), (43, 37821), (46, 37824), (53, 37860), (Start: 54 @37872 has 1 MA's), (68, 37911), (144, 37974), (150, 38046), (155, 38097), (158, 38115), (165, 38136), (171, 38166), (177, 38178),

Gene: Florinda_65 Start: 39887, Stop: 40492, Start Num: 30

Candidate Starts for Florinda_65:

(23, 39857), (Start: 30 @39887 has 33 MA's), (32, 39905), (Start: 34 @39926 has 1 MA's), (39, 39947), (41, 39950), (43, 39959), (46, 39962), (48, 39974), (51, 39983), (53, 39998), (Start: 54 @40010 has 1 MA's), (68, 40049), (75, 40055), (137, 40154), (150, 40301), (151, 40307), (155, 40352), (174, 40433),

Gene: FreddyB_55 Start: 36538, Stop: 37185, Start Num: 31

Candidate Starts for FreddyB_55:

(23, 36508), (Start: 31 @36538 has 146 MA's), (32, 36556), (Start: 34 @36577 has 1 MA's), (41, 36601), (43, 36610), (46, 36613), (53, 36649), (Start: 54 @36661 has 1 MA's), (68, 36700), (132, 36778), (137, 36805), (150, 36964), (151, 36970), (158, 37033),

Gene: Fruitloop_51 Start: 37994, Stop: 38665, Start Num: 31

Candidate Starts for Fruitloop_51:

(Start: 31 @37994 has 146 MA's), (32, 38012), (Start: 34 @38033 has 1 MA's), (39, 38054), (41, 38057), (43, 38066), (46, 38069), (53, 38105), (Start: 54 @38117 has 1 MA's), (78, 38174), (114, 38282), (132, 38336), (137, 38363), (150, 38486), (151, 38492), (165, 38576), (182, 38618),

Gene: Galactic_53 Start: 37613, Stop: 38224, Start Num: 31

Candidate Starts for Galactic_53:

(23, 37583), (Start: 31 @37613 has 146 MA's), (32, 37631), (Start: 34 @37652 has 1 MA's), (39, 37673), (41, 37676), (43, 37685), (46, 37688), (53, 37724), (Start: 54 @37736 has 1 MA's), (68, 37775), (75, 37781), (132, 37853), (137, 37880), (150, 38003), (151, 38009), (158, 38072),

Gene: Gandalph_56 Start: 37657, Stop: 38280, Start Num: 31

Candidate Starts for Gandalph_56:

(Start: 31 @37657 has 146 MA's), (32, 37675), (Start: 34 @37696 has 1 MA's), (39, 37717), (41, 37720), (43, 37729), (46, 37732), (48, 37744), (51, 37753), (53, 37768), (Start: 54 @37780 has 1 MA's), (68, 37819), (75, 37825), (78, 37837), (132, 37903), (137, 37930), (150, 38089), (151, 38095), (165, 38179), (182, 38233),

Gene: Geralt_49 Start: 35876, Stop: 36565, Start Num: 30

Candidate Starts for Geralt_49:

(23, 35846), (Start: 30 @35876 has 33 MA's), (32, 35894), (Start: 34 @35915 has 1 MA's), (39, 35936), (41, 35939), (43, 35948), (46, 35951), (48, 35963), (53, 35987), (Start: 54 @35999 has 1 MA's), (88, 36119), (132, 36191), (137, 36218), (150, 36377), (151, 36383), (155, 36428), (162, 36458), (174, 36506),

Gene: GigiOuiOui_50 Start: 36639, Stop: 37199, Start Num: 37

Candidate Starts for GigiOuiOui_50:

(Start: 37 @36639 has 2 MA's), (40, 36654), (41, 36657), (43, 36666), (46, 36669), (48, 36681), (53, 36705), (Start: 54 @36717 has 1 MA's), (72, 36735), (80, 36774), (81, 36780), (131, 36861), (133, 36867), (134, 36876), (150, 37011), (151, 37017), (155, 37062), (162, 37092), (174, 37140),

Gene: Girafales_63 Start: 39600, Stop: 40283, Start Num: 31

Candidate Starts for Girafales_63:

(Start: 17 @39549 has 3 MA's), (20, 39558), (26, 39588), (Start: 28 @39597 has 4 MA's), (Start: 31 @39600 has 146 MA's), (32, 39618), (Start: 34 @39639 has 1 MA's), (39, 39660), (41, 39663), (43, 39672), (46, 39675), (48, 39687), (53, 39711), (Start: 54 @39723 has 1 MA's), (114, 39888), (132, 39942), (137, 39969), (150, 40092), (151, 40098), (155, 40143), (174, 40224),

Gene: Girr_52 Start: 37416, Stop: 38063, Start Num: 31

Candidate Starts for Girr_52:

(23, 37386), (Start: 31 @37416 has 146 MA's), (32, 37434), (Start: 34 @37455 has 1 MA's), (39, 37476), (41, 37479), (43, 37488), (46, 37491), (48, 37503), (51, 37512), (53, 37527), (60, 37557), (68, 37578), (75, 37584), (132, 37656), (137, 37683), (150, 37842), (151, 37848), (158, 37911),

Gene: Gorge_58 Start: 38905, Stop: 39702, Start Num: 31

Candidate Starts for Gorge_58:

(Start: 31 @38905 has 146 MA's), (32, 38923), (Start: 34 @38944 has 1 MA's), (39, 38965), (41, 38968), (43, 38977), (46, 38980), (53, 39016), (Start: 54 @39028 has 1 MA's), (60, 39046), (101, 39148), (108, 39157), (112, 39163), (116, 39199), (119, 39223), (132, 39295), (137, 39322), (150, 39481), (151, 39487), (158, 39550),

Gene: Hades_54 Start: 37504, Stop: 38343, Start Num: 31

Candidate Starts for Hades_54:

(Start: 31 @37504 has 146 MA's), (32, 37522), (Start: 34 @37543 has 1 MA's), (39, 37564), (41, 37567), (43, 37576), (46, 37579), (48, 37591), (53, 37615), (Start: 54 @37627 has 1 MA's), (60, 37645), (68, 37666), (88, 37747), (93, 37774), (132, 37966), (137, 37993), (150, 38152), (151, 38158), (165, 38242),

Gene: Hamulus_54 Start: 38023, Stop: 38607, Start Num: 31

Candidate Starts for Hamulus_54:

(Start: 31 @38023 has 146 MA's), (32, 38041), (Start: 34 @38062 has 1 MA's), (39, 38083), (41, 38086), (43, 38095), (46, 38098), (53, 38134), (Start: 54 @38146 has 1 MA's), (132, 38269), (137, 38296), (144, 38350), (150, 38419), (151, 38425), (155, 38470), (158, 38488), (165, 38509), (177, 38551),

Gene: Harley_55 Start: 37379, Stop: 38041, Start Num: 31

Candidate Starts for Harley_55:

(Start: 31 @37379 has 146 MA's), (32, 37397), (Start: 34 @37418 has 1 MA's), (39, 37439), (41, 37442), (43, 37451), (46, 37454), (53, 37490), (Start: 54 @37502 has 1 MA's), (60, 37520), (72, 37577), (80, 37616), (81, 37622), (131, 37703), (133, 37709), (134, 37718), (150, 37853), (151, 37859), (155, 37904), (162, 37934), (174, 37982),

Gene: Hegedechwinu_53 Start: 35958, Stop: 36644, Start Num: 31

Candidate Starts for Hegedechwinu_53:

(16, 35907), (19, 35916), (25, 35946), (Start: 28 @35955 has 4 MA's), (Start: 31 @35958 has 146 MA's), (32, 35976), (Start: 34 @35988 has 1 MA's), (39, 36009), (41, 36012), (43, 36021), (46, 36024), (47, 36033), (53, 36060), (Start: 54 @36072 has 1 MA's), (60, 36090), (83, 36156), (91, 36165), (92, 36171), (100, 36207), (109, 36231), (132, 36303), (137, 36330), (144, 36384), (150, 36456), (155, 36507), (158, 36525), (165, 36546), (171, 36576), (177, 36588),

Gene: lbOuu_53 Start: 38158, Stop: 38736, Start Num: 31

Candidate Starts for lbOuu_53:

(23, 38128), (Start: 31 @38158 has 146 MA's), (32, 38176), (Start: 34 @38197 has 1 MA's), (38, 38212), (43, 38230), (46, 38233), (53, 38269), (60, 38299), (68, 38320), (75, 38326), (132, 38398), (137, 38425), (150, 38548), (151, 38554), (155, 38599), (162, 38629), (174, 38677),

Gene: lbhubesi_53 Start: 36972, Stop: 37550, Start Num: 31

Candidate Starts for lbhubesi_53:

(Start: 31 @36972 has 146 MA's), (32, 36990), (Start: 34 @37011 has 1 MA's), (39, 37032), (41, 37035), (43, 37044), (46, 37047), (53, 37083), (Start: 54 @37095 has 1 MA's), (68, 37134), (75, 37140), (132, 37212), (137, 37239), (145, 37293), (150, 37362), (151, 37368), (155, 37413), (162, 37443), (174, 37491),

Gene: Inventum_48 Start: 36392, Stop: 37033, Start Num: 31

Candidate Starts for Inventum_48:

(Start: 31 @36392 has 146 MA's), (32, 36410), (39, 36452), (41, 36455), (43, 36464), (46, 36467), (48, 36479), (53, 36503), (Start: 54 @36515 has 1 MA's), (78, 36572), (114, 36680), (132, 36734), (137, 36761), (150, 36854), (151, 36860), (165, 36944), (182, 36986),

Gene: Jabbawokkie_67 Start: 38459, Stop: 39289, Start Num: 31

Candidate Starts for Jabbawokkie_67:

(Start: 31 @38459 has 146 MA's), (32, 38477), (Start: 34 @38498 has 1 MA's), (39, 38519), (41, 38522), (43, 38531), (46, 38534), (53, 38570), (Start: 54 @38582 has 1 MA's), (68, 38621), (88, 38702), (93, 38729), (132, 38921), (137, 38948), (150, 39107), (151, 39113), (153, 39134), (165, 39197), (182, 39242),

Gene: JalFarm20_65 Start: 40779, Stop: 41264, Start Num: 31

Candidate Starts for JalFarm20_65:

(Start: 31 @40779 has 146 MA's), (32, 40797), (Start: 34 @40818 has 1 MA's), (39, 40839), (41, 40842), (43, 40851), (46, 40854), (53, 40890), (Start: 54 @40902 has 1 MA's), (68, 40941), (144, 41004), (150, 41076), (155, 41127), (158, 41145), (165, 41166), (171, 41196), (177, 41208),

Gene: Jacob_54 Start: 37658, Stop: 38305, Start Num: 31

Candidate Starts for Jacob_54:

(23, 37628), (Start: 31 @37658 has 146 MA's), (32, 37676), (Start: 34 @37697 has 1 MA's), (41, 37721), (43, 37730), (46, 37733), (53, 37769), (Start: 54 @37781 has 1 MA's), (68, 37820), (132, 37898), (137, 37925), (150, 38084), (151, 38090), (158, 38153),

Gene: Jennelsea_51 Start: 36337, Stop: 36990, Start Num: 31

Candidate Starts for Jennelsea_51:

(Start: 31 @36337 has 146 MA's), (32, 36355), (Start: 34 @36376 has 1 MA's), (39, 36397), (41, 36400), (43, 36409), (46, 36412), (53, 36448), (Start: 54 @36460 has 1 MA's), (132, 36583), (137, 36610), (150, 36769), (151, 36775), (158, 36838),

Gene: Jinglebell_58 Start: 39416, Stop: 40003, Start Num: 31

Candidate Starts for Jinglebell_58:

(23, 39386), (Start: 31 @39416 has 146 MA's), (32, 39434), (Start: 34 @39455 has 1 MA's), (46, 39491), (53, 39527), (Start: 54 @39539 has 1 MA's), (60, 39557), (68, 39578), (78, 39596), (132, 39662), (137, 39689), (150, 39812), (151, 39818), (182, 39956),

Gene: Job42_56 Start: 39633, Stop: 40247, Start Num: 30

Candidate Starts for Job42_56:

(Start: 30 @39633 has 33 MA's), (32, 39651), (Start: 34 @39672 has 1 MA's), (39, 39693), (41, 39696), (43, 39705), (46, 39708), (48, 39720), (51, 39729), (53, 39744), (60, 39774), (68, 39795), (75, 39801), (132, 39873), (137, 39900), (150, 40059), (151, 40065), (155, 40110), (162, 40140), (174, 40188),

Gene: JoeyJr_49 Start: 36076, Stop: 36765, Start Num: 30

Candidate Starts for JoeyJr_49:

(23, 36046), (Start: 30 @36076 has 33 MA's), (32, 36094), (Start: 34 @36115 has 1 MA's), (39, 36136), (41, 36139), (43, 36148), (46, 36151), (48, 36163), (53, 36187), (Start: 54 @36199 has 1 MA's), (88, 36319), (132, 36391), (137, 36418), (150, 36577), (151, 36583), (155, 36628), (162, 36658), (174, 36706),

Gene: Juice456_54 Start: 38793, Stop: 39401, Start Num: 34

Candidate Starts for Juice456_54:

(Start: 31 @38754 has 146 MA's), (Start: 34 @38793 has 1 MA's), (41, 38817), (43, 38826), (46, 38829), (53, 38865), (Start: 54 @38877 has 1 MA's), (68, 38916), (132, 38994), (137, 39021), (150, 39180), (151, 39186), (158, 39249),

Gene: Juniper1_51 Start: 36864, Stop: 37370, Start Num: 31

Candidate Starts for Juniper1_51:

(Start: 31 @36864 has 146 MA's), (32, 36882), (Start: 34 @36903 has 1 MA's), (39, 36924), (41, 36927), (43, 36936), (46, 36939), (48, 36951), (51, 36960), (53, 36975), (Start: 54 @36987 has 1 MA's), (75, 37032), (78, 37044), (137, 37131), (150, 37179), (165, 37269), (182, 37323),

Gene: Karhdo_51 Start: 37236, Stop: 37814, Start Num: 31

Candidate Starts for Karhdo_51:

(23, 37206), (Start: 31 @37236 has 146 MA's), (32, 37254), (Start: 34 @37275 has 1 MA's), (38, 37290), (43, 37308), (46, 37311), (53, 37347), (Start: 54 @37359 has 1 MA's), (60, 37377), (68, 37398), (132, 37476), (137, 37503), (150, 37626), (155, 37677), (162, 37707), (174, 37755),

Gene: Kenuha5_51 Start: 36362, Stop: 37102, Start Num: 31

Candidate Starts for Kenuha5_51:

(Start: 31 @36362 has 146 MA's), (32, 36380), (Start: 34 @36401 has 1 MA's), (41, 36425), (47, 36446), (53, 36473), (Start: 54 @36485 has 1 MA's), (60, 36503), (68, 36524), (75, 36530), (87, 36599), (94, 36638), (97, 36650), (113, 36698), (132, 36773), (137, 36800), (150, 36923), (151, 36929), (165, 37013), (182, 37055),

Gene: Kersh_55 Start: 39189, Stop: 39803, Start Num: 30

Candidate Starts for Kersh_55:

(23, 39159), (Start: 30 @39189 has 33 MA's), (32, 39207), (Start: 34 @39228 has 1 MA's), (39, 39249), (41, 39252), (43, 39261), (46, 39264), (48, 39276), (51, 39285), (53, 39300), (60, 39330), (68, 39351), (75, 39357), (132, 39429), (137, 39456), (150, 39615), (151, 39621), (155, 39666), (162, 39696), (174, 39744),

Gene: Kimberlium_55 Start: 39048, Stop: 39626, Start Num: 31

Candidate Starts for Kimberlium_55:

(23, 39018), (Start: 31 @39048 has 146 MA's), (32, 39066), (Start: 34 @39087 has 1 MA's), (38, 39102), (43, 39120), (46, 39123), (53, 39159), (Start: 54 @39171 has 1 MA's), (60, 39189), (68, 39210), (132, 39288), (137, 39315), (150, 39438), (155, 39489), (157, 39504), (162, 39519), (174, 39567),

Gene: KingJulian_53 Start: 36569, Stop: 37195, Start Num: 31

Candidate Starts for KingJulian_53:

(15, 36518), (18, 36527), (26, 36557), (Start: 28 @36566 has 4 MA's), (Start: 31 @36569 has 146 MA's), (32, 36587), (Start: 34 @36599 has 1 MA's), (39, 36620), (41, 36623), (43, 36632), (46, 36635), (47, 36644), (53, 36671), (Start: 54 @36683 has 1 MA's), (88, 36803), (132, 36875), (137, 36902), (150, 36995), (151, 37001), (155, 37046), (158, 37064), (162, 37079), (165, 37085),

Gene: KingMidas_53 Start: 37738, Stop: 38427, Start Num: 30

Candidate Starts for KingMidas_53:

(23, 37708), (Start: 30 @37738 has 33 MA's), (32, 37756), (Start: 34 @37777 has 1 MA's), (39, 37798), (41, 37801), (43, 37810), (46, 37813), (48, 37825), (53, 37849), (Start: 54 @37861 has 1 MA's), (88, 37981), (132, 38053), (137, 38080), (150, 38239), (151, 38245), (155, 38290), (162, 38320), (174, 38368),

Gene: Kingsley_50 Start: 36346, Stop: 36969, Start Num: 31

Candidate Starts for Kingsley_50:

(Start: 31 @36346 has 146 MA's), (32, 36364), (Start: 34 @36385 has 1 MA's), (39, 36406), (41, 36409), (43, 36418), (46, 36421), (48, 36433), (51, 36442), (53, 36457), (Start: 54 @36469 has 1 MA's), (68, 36508), (75, 36514), (78, 36526), (132, 36592), (137, 36619), (150, 36778), (151, 36784), (165, 36868), (182, 36922),

Gene: Koella_48 Start: 33588, Stop: 34235, Start Num: 31

Candidate Starts for Koella_48:

(23, 33558), (Start: 31 @33588 has 146 MA's), (32, 33606), (Start: 34 @33627 has 1 MA's), (41, 33651), (43, 33660), (46, 33663), (53, 33699), (Start: 54 @33711 has 1 MA's), (68, 33750), (132, 33828), (137, 33855), (150, 34014), (151, 34020), (158, 34083),

Gene: Krakatau_51 Start: 37074, Stop: 37757, Start Num: 31

Candidate Starts for Krakatau_51:

(Start: 31 @37074 has 146 MA's), (32, 37092), (Start: 34 @37104 has 1 MA's), (39, 37125), (41, 37128), (43, 37137), (46, 37140), (53, 37176), (Start: 54 @37188 has 1 MA's), (60, 37206), (88, 37272), (90, 37281), (91, 37287), (99, 37323), (105, 37347), (132, 37419), (137, 37446), (145, 37500), (150, 37569), (151, 37575), (155, 37620), (162, 37650), (174, 37698),

Gene: KristaRAM_56 Start: 39407, Stop: 40030, Start Num: 31

Candidate Starts for KristaRAM_56:

(15, 39356), (18, 39365), (26, 39395), (Start: 28 @39404 has 4 MA's), (Start: 31 @39407 has 146 MA's), (32, 39425), (Start: 34 @39446 has 1 MA's), (39, 39467), (41, 39470), (43, 39479), (46, 39482), (48, 39494), (53, 39518), (Start: 54 @39530 has 1 MA's), (88, 39650), (132, 39722), (137, 39749), (150, 39842), (151, 39848), (155, 39893), (162, 39923), (178, 39971),

Gene: LastJedi_48 Start: 34908, Stop: 35555, Start Num: 31

Candidate Starts for LastJedi_48:

(23, 34878), (Start: 31 @34908 has 146 MA's), (32, 34926), (Start: 34 @34947 has 1 MA's), (39, 34968), (41, 34971), (43, 34980), (46, 34983), (53, 35019), (Start: 54 @35031 has 1 MA's), (68, 35070), (132, 35148), (137, 35175), (150, 35334), (151, 35340), (158, 35403),

Gene: Leozinho_53 Start: 36989, Stop: 37636, Start Num: 31

Candidate Starts for Leozinho_53:

(23, 36959), (Start: 31 @36989 has 146 MA's), (32, 37007), (Start: 34 @37028 has 1 MA's), (39, 37049), (41, 37052), (43, 37061), (46, 37064), (48, 37076), (51, 37085), (53, 37100), (60, 37130), (68, 37151), (75, 37157), (132, 37229), (137, 37256), (150, 37415), (151, 37421), (158, 37484),

Gene: Leperchaun_46 Start: 35306, Stop: 35995, Start Num: 30

Candidate Starts for Leperchaun_46:

(23, 35276), (Start: 30 @35306 has 33 MA's), (32, 35324), (Start: 34 @35345 has 1 MA's), (39, 35366), (41, 35369), (43, 35378), (46, 35381), (48, 35393), (53, 35417), (Start: 54 @35429 has 1 MA's), (88, 35549), (132, 35621), (137, 35648), (150, 35807), (151, 35813), (155, 35858), (162, 35888), (174, 35936),

Gene: LilMoolah_52 Start: 37168, Stop: 37752, Start Num: 31

Candidate Starts for LilMoolah_52:

(Start: 31 @37168 has 146 MA's), (32, 37186), (Start: 34 @37207 has 1 MA's), (39, 37228), (41, 37231), (43, 37240), (46, 37243), (53, 37279), (Start: 54 @37291 has 1 MA's), (132, 37414), (137, 37441), (145, 37495), (150, 37564), (151, 37570), (155, 37615), (162, 37645), (174, 37693),

Gene: Lizziana_60 Start: 38661, Stop: 39308, Start Num: 31

Candidate Starts for Lizziana_60:

(23, 38631), (Start: 31 @38661 has 146 MA's), (32, 38679), (Start: 34 @38700 has 1 MA's), (41, 38724), (43, 38733), (46, 38736), (53, 38772), (Start: 54 @38784 has 1 MA's), (68, 38823), (132, 38901), (137, 38928), (150, 39087), (151, 39093), (158, 39156),

Gene: Llama_58 Start: 39414, Stop: 40001, Start Num: 31

Candidate Starts for Llama_58:

(23, 39384), (Start: 31 @39414 has 146 MA's), (32, 39432), (Start: 34 @39453 has 1 MA's), (46, 39489), (53, 39525), (Start: 54 @39537 has 1 MA's), (60, 39555), (68, 39576), (78, 39594), (132, 39660), (137, 39687), (150, 39810), (151, 39816), (182, 39954),

Gene: Llij_50 Start: 36545, Stop: 37129, Start Num: 31

Candidate Starts for Llij_50:

(Start: 31 @36545 has 146 MA's), (32, 36563), (Start: 34 @36584 has 1 MA's), (39, 36605), (41, 36608), (43, 36617), (46, 36620), (53, 36656), (Start: 54 @36668 has 1 MA's), (132, 36791), (137, 36818), (145, 36872), (150, 36941), (151, 36947), (155, 36992), (162, 37022), (174, 37070),

Gene: Lorde_54 Start: 35754, Stop: 36416, Start Num: 31

Candidate Starts for Lorde_54:

(Start: 31 @35754 has 146 MA's), (32, 35772), (Start: 34 @35793 has 1 MA's), (39, 35814), (41, 35817), (43, 35826), (46, 35829), (53, 35865), (Start: 54 @35877 has 1 MA's), (60, 35895), (62, 35916), (65, 35922), (72, 35952), (80, 35991), (81, 35997), (131, 36078), (133, 36084), (134, 36093), (150, 36228), (151, 36234), (155, 36279), (162, 36309), (174, 36357),

Gene: Lucia_54 Start: 36689, Stop: 37273, Start Num: 31

Candidate Starts for Lucia_54:

(Start: 31 @36689 has 146 MA's), (32, 36707), (Start: 34 @36728 has 1 MA's), (39, 36749), (41, 36752), (43, 36761), (46, 36764), (53, 36800), (Start: 54 @36812 has 1 MA's), (132, 36935), (137, 36962), (145, 37016), (150, 37085), (151, 37091), (155, 37136), (162, 37166), (174, 37214),

Gene: LunaBlu_56 Start: 38272, Stop: 38883, Start Num: 31

Candidate Starts for LunaBlu_56:

(23, 38242), (Start: 31 @38272 has 146 MA's), (32, 38290), (Start: 34 @38311 has 1 MA's), (39, 38332), (41, 38335), (43, 38344), (46, 38347), (53, 38383), (Start: 54 @38395 has 1 MA's), (68, 38434), (75, 38440), (132, 38512), (137, 38539), (150, 38662), (151, 38668), (158, 38731),

Gene: LunaStella_51 Start: 35924, Stop: 36715, Start Num: 5

Candidate Starts for LunaStella_51:

(1, 35873), (2, 35882), (3, 35912), (4, 35921), (Start: 5 @35924 has 3 MA's), (6, 35942), (Start: 7 @35963 has 1 MA's), (8, 35984), (9, 35987), (10, 35996), (11, 35999), (12, 36011), (13, 36035), (15, 36047), (21, 36065), (24, 36086), (27, 36092), (33, 36137), (49, 36191), (72, 36251), (80, 36290), (81, 36296), (131, 36377), (133, 36383), (134, 36392), (150, 36527), (155, 36578), (158, 36596), (162, 36608), (174, 36656),

Gene: MadMen_51 Start: 37141, Stop: 37788, Start Num: 31

Candidate Starts for MadMen_51:

(Start: 31 @37141 has 146 MA's), (32, 37159), (Start: 34 @37180 has 1 MA's), (39, 37201), (41, 37204), (43, 37213), (46, 37216), (53, 37252), (Start: 54 @37264 has 1 MA's), (60, 37282), (68, 37303), (75, 37309), (78, 37321), (132, 37381), (137, 37408), (150, 37567), (151, 37573), (158, 37636),

Gene: Madiba_51 Start: 35891, Stop: 36466, Start Num: 29

Candidate Starts for Madiba_51:

(Start: 29 @35891 has 2 MA's), (32, 35909), (Start: 34 @35930 has 1 MA's), (41, 35954), (43, 35963), (46, 35966), (53, 36002), (60, 36032), (68, 36053), (75, 36059), (132, 36131), (137, 36158), (149, 36266), (150, 36287), (151, 36293), (165, 36377), (182, 36419),

Gene: Mahavrat_51 Start: 36698, Stop: 37408, Start Num: 31

Candidate Starts for Mahavrat_51:

(Start: 31 @36698 has 146 MA's), (32, 36716), (Start: 34 @36737 has 1 MA's), (46, 36773), (48, 36785), (53, 36809), (Start: 54 @36821 has 1 MA's), (63, 36860), (70, 36878), (72, 36881), (93, 36959), (103, 36998), (107, 37010), (137, 37115), (150, 37208), (151, 37214), (155, 37259), (158, 37277), (184, 37379),

Gene: Mantra_49 Start: 36324, Stop: 36902, Start Num: 31

Candidate Starts for Mantra_49:

(23, 36294), (Start: 31 @36324 has 146 MA's), (32, 36342), (Start: 34 @36363 has 1 MA's), (38, 36378), (43, 36396), (46, 36399), (53, 36435), (Start: 54 @36447 has 1 MA's), (60, 36465), (68, 36486), (132, 36564), (137, 36591), (150, 36714), (155, 36765), (157, 36780), (162, 36795), (174, 36843),

Gene: Maravista_55 Start: 39079, Stop: 39756, Start Num: 31

Candidate Starts for Maravista_55:

(Start: 31 @39079 has 146 MA's), (32, 39097), (Start: 34 @39118 has 1 MA's), (39, 39139), (41, 39142), (43, 39151), (46, 39154), (53, 39190), (Start: 54 @39202 has 1 MA's), (60, 39220), (88, 39322), (91, 39337), (99, 39373), (123, 39397), (132, 39448), (137, 39475), (150, 39568), (151, 39574), (155, 39619), (162, 39649), (174, 39697),

Gene: Marker_54 Start: 37382, Stop: 37948, Start Num: 30

Candidate Starts for Marker_54:

(Start: 30 @37382 has 33 MA's), (32, 37400), (39, 37442), (46, 37457), (53, 37493), (Start: 54 @37505 has 1 MA's), (68, 37544), (75, 37550), (78, 37562), (132, 37628), (137, 37655), (150, 37748), (151, 37754), (155, 37799), (159, 37823), (164, 37835), (166, 37844),

Gene: Martik_54 Start: 37614, Stop: 38261, Start Num: 31

Candidate Starts for Martik_54:

(23, 37584), (Start: 31 @37614 has 146 MA's), (32, 37632), (Start: 34 @37653 has 1 MA's), (41, 37677), (43, 37686), (46, 37689), (53, 37725), (Start: 54 @37737 has 1 MA's), (68, 37776), (132, 37854), (137, 37881), (150, 38040), (151, 38046), (158, 38109),

Gene: Melissauren88_51 Start: 36531, Stop: 37214, Start Num: 31

Candidate Starts for Melissauren88_51:

(Start: 31 @36531 has 146 MA's), (32, 36549), (Start: 34 @36570 has 1 MA's), (39, 36591), (41, 36594), (43, 36603), (46, 36606), (53, 36642), (Start: 54 @36654 has 1 MA's), (78, 36711), (122, 36819), (132, 36873), (137, 36900), (144, 36954), (150, 37026), (155, 37077), (158, 37095), (165, 37116), (171, 37146), (177, 37158),

Gene: MilanaBonita_44 Start: 33238, Stop: 33918, Start Num: 31

Candidate Starts for MilanaBonita_44:

(Start: 31 @33238 has 146 MA's), (32, 33256), (Start: 34 @33277 has 1 MA's), (39, 33298), (41, 33301), (43, 33310), (46, 33313), (53, 33349), (Start: 54 @33361 has 1 MA's), (78, 33418), (122, 33526), (132, 33580), (137, 33607), (145, 33661), (150, 33730), (151, 33736), (155, 33781), (162, 33811), (174, 33859),

Gene: MilleniumForce_57 Start: 39630, Stop: 40112, Start Num: 31

Candidate Starts for MilleniumForce_57:

(Start: 31 @39630 has 146 MA's), (32, 39648), (Start: 34 @39669 has 1 MA's), (39, 39690), (41, 39693), (43, 39702), (46, 39705), (53, 39741), (Start: 54 @39753 has 1 MA's), (68, 39792), (145, 39855), (150, 39924), (151, 39930), (155, 39975), (162, 40005), (174, 40053),

Gene: MinionDave_52 Start: 37068, Stop: 37781, Start Num: 31

Candidate Starts for MinionDave_52:

(Start: 31 @37068 has 146 MA's), (32, 37086), (Start: 34 @37107 has 1 MA's), (39, 37128), (41, 37131), (43, 37140), (46, 37143), (53, 37179), (Start: 54 @37191 has 1 MA's), (84, 37278), (91, 37314), (96, 37338), (132, 37410), (137, 37437), (147, 37518), (150, 37593), (151, 37599), (153, 37620), (155, 37644), (162, 37674), (174, 37722),

Gene: Minnie_58 Start: 39392, Stop: 40183, Start Num: 5

Candidate Starts for Minnie_58:

(Start: 5 @39392 has 3 MA's), (6, 39410), (Start: 7 @39431 has 1 MA's), (8, 39452), (9, 39455), (10, 39464), (11, 39467), (12, 39479), (13, 39503), (15, 39515), (21, 39533), (24, 39554), (27, 39560), (33, 39605), (49, 39659), (72, 39719), (80, 39758), (81, 39764), (131, 39845), (133, 39851), (134, 39860), (150, 39995), (151, 40001), (155, 40046), (162, 40076), (174, 40124),

Gene: MisterCuddles_52 Start: 37416, Stop: 38063, Start Num: 31

Candidate Starts for MisterCuddles_52:

(23, 37386), (Start: 31 @37416 has 146 MA's), (32, 37434), (Start: 34 @37455 has 1 MA's), (39, 37476), (41, 37479), (43, 37488), (46, 37491), (48, 37503), (51, 37512), (53, 37527), (60, 37557), (68, 37578), (75, 37584), (132, 37656), (137, 37683), (150, 37842), (151, 37848), (158, 37911),

Gene: Modragons_57 Start: 39260, Stop: 39847, Start Num: 31

Candidate Starts for Modragons_57:

(23, 39230), (Start: 31 @39260 has 146 MA's), (32, 39278), (Start: 34 @39299 has 1 MA's), (46, 39335), (53, 39371), (Start: 54 @39383 has 1 MA's), (60, 39401), (68, 39422), (78, 39440), (132, 39506), (137, 39533), (150, 39656), (151, 39662), (182, 39800),

Gene: MooMoo_51 Start: 36852, Stop: 37634, Start Num: 17

Candidate Starts for MooMoo_51:

(Start: 17 @36852 has 3 MA's), (22, 36870), (Start: 31 @36903 has 146 MA's), (36, 36951), (44, 36990), (46, 36999), (61, 37038), (111, 37140), (127, 37239), (140, 37332), (142, 37341), (146, 37386), (150, 37443), (151, 37449), (152, 37461), (155, 37494), (172, 37578),

Gene: Moonbeam_49 Start: 36588, Stop: 37172, Start Num: 31

Candidate Starts for Moonbeam_49:

(Start: 31 @36588 has 146 MA's), (32, 36606), (Start: 34 @36627 has 1 MA's), (39, 36648), (41, 36651), (43, 36660), (46, 36663), (53, 36699), (Start: 54 @36711 has 1 MA's), (60, 36729), (132, 36834), (137, 36861), (144, 36915), (150, 36984), (151, 36990), (155, 37035), (158, 37053), (165, 37074), (171, 37104), (177, 37116),

Gene: Mova_54 Start: 36914, Stop: 37537, Start Num: 31

Candidate Starts for Mova_54:

(Start: 31 @36914 has 146 MA's), (32, 36932), (Start: 34 @36953 has 1 MA's), (39, 36974), (41, 36977), (43, 36986), (46, 36989), (48, 37001), (51, 37010), (53, 37025), (Start: 54 @37037 has 1 MA's), (68, 37076), (75, 37082), (78, 37094), (132, 37160), (137, 37187), (150, 37346), (151, 37352), (165, 37436), (182, 37490),

Gene: Mozy_63 Start: 40170, Stop: 40844, Start Num: 28

Candidate Starts for Mozy_63:

(18, 40128), (Start: 28 @40170 has 4 MA's), (32, 40188), (39, 40230), (46, 40245), (74, 40320), (85, 40359), (86, 40371), (100, 40428), (137, 40533), (144, 40584), (150, 40656), (151, 40662), (155, 40707), (161, 40737), (175, 40785),

Gene: Ms6_48 Start: 32289, Stop: 32969, Start Num: 31

Candidate Starts for Ms6_48:

(Start: 31 @32289 has 146 MA's), (32, 32307), (Start: 34 @32328 has 1 MA's), (39, 32349), (41, 32352), (43, 32361), (46, 32364), (53, 32400), (Start: 54 @32412 has 1 MA's), (60, 32430), (78, 32469), (122, 32577), (132, 32631), (137, 32658), (144, 32712), (150, 32781), (151, 32787), (155, 32832), (158, 32850), (165, 32871), (171, 32901), (177, 32913),

Gene: MulchExplorer_55 Start: 39047, Stop: 39625, Start Num: 31

Candidate Starts for MulchExplorer_55:

(23, 39017), (Start: 31 @39047 has 146 MA's), (32, 39065), (Start: 34 @39086 has 1 MA's), (38, 39101), (43, 39119), (46, 39122), (53, 39158), (Start: 54 @39170 has 1 MA's), (60, 39188), (68, 39209), (132, 39287), (137, 39314), (150, 39437), (155, 39488), (157, 39503), (162, 39518), (174, 39566),

Gene: Mutaforma13_57 Start: 39642, Stop: 40256, Start Num: 31

Candidate Starts for Mutaforma13_57:

(Start: 17 @39591 has 3 MA's), (20, 39600), (26, 39630), (Start: 28 @39639 has 4 MA's), (Start: 31 @39642 has 146 MA's), (32, 39660), (43, 39714), (46, 39717), (48, 39729), (53, 39753), (Start: 54 @39765 has 1 MA's), (137, 39909), (150, 40068), (151, 40074), (155, 40119), (162, 40149), (167, 40179), (174, 40197),

Gene: Mwanjiwa_59 Start: 38024, Stop: 38641, Start Num: 28

Candidate Starts for Mwanjiwa_59:

(Start: 28 @38024 has 4 MA's), (32, 38042), (Start: 34 @38063 has 1 MA's), (39, 38084), (41, 38087), (43, 38096), (46, 38099), (53, 38135), (Start: 54 @38147 has 1 MA's), (68, 38186), (75, 38192), (132, 38264), (137, 38291), (148, 38396), (150, 38450), (151, 38456), (165, 38540), (182, 38594),

Gene: NewHope4_55 Start: 37643, Stop: 38254, Start Num: 31

Candidate Starts for NewHope4_55:

(23, 37613), (Start: 31 @37643 has 146 MA's), (32, 37661), (Start: 34 @37682 has 1 MA's), (39, 37703), (41, 37706), (43, 37715), (46, 37718), (53, 37754), (Start: 54 @37766 has 1 MA's), (68, 37805), (75, 37811), (132, 37883), (137, 37910), (150, 38033), (151, 38039), (158, 38102),

Gene: Nichirin_58 Start: 38943, Stop: 39521, Start Num: 29

Candidate Starts for Nichirin_58:

(12, 38856), (Start: 29 @38943 has 2 MA's), (32, 38961), (Start: 34 @38982 has 1 MA's), (41, 39006), (47, 39027), (53, 39054), (75, 39111), (137, 39210), (150, 39330), (151, 39336), (182, 39474),

Gene: Nimbo_48 Start: 35879, Stop: 36568, Start Num: 30

Candidate Starts for Nimbo_48:

(23, 35849), (Start: 30 @35879 has 33 MA's), (32, 35897), (Start: 34 @35918 has 1 MA's), (39, 35939), (41, 35942), (43, 35951), (46, 35954), (48, 35966), (53, 35990), (Start: 54 @36002 has 1 MA's), (88, 36122), (132, 36194), (137, 36221), (150, 36380), (151, 36386), (155, 36431), (162, 36461), (174, 36509),

Gene: Nitzel_50 Start: 36307, Stop: 37011, Start Num: 30

Candidate Starts for Nitzel_50:

(Start: 30 @36307 has 33 MA's), (32, 36325), (Start: 34 @36346 has 1 MA's), (41, 36370), (47, 36391), (53, 36418), (Start: 54 @36430 has 1 MA's), (78, 36487), (114, 36595), (132, 36649), (137, 36676),

(149, 36784), (150, 36805), (151, 36811), (155, 36856), (158, 36874), (181, 36961), (184, 36982),

Gene: Nivrat_50 Start: 37041, Stop: 37625, Start Num: 31

Candidate Starts for Nivrat_50:

(Start: 31 @37041 has 146 MA's), (32, 37059), (Start: 34 @37080 has 1 MA's), (39, 37101), (41, 37104), (43, 37113), (46, 37116), (53, 37152), (Start: 54 @37164 has 1 MA's), (132, 37287), (137, 37314), (145, 37368), (150, 37437), (151, 37443), (155, 37488), (162, 37518), (174, 37566),

Gene: NormanBulbieJr_54 Start: 37601, Stop: 38248, Start Num: 31

Candidate Starts for NormanBulbieJr_54:

(23, 37571), (Start: 31 @37601 has 146 MA's), (32, 37619), (Start: 34 @37640 has 1 MA's), (41, 37664), (43, 37673), (46, 37676), (53, 37712), (Start: 54 @37724 has 1 MA's), (68, 37763), (132, 37841), (137, 37868), (150, 38027), (151, 38033), (158, 38096),

Gene: Ochi17_56 Start: 38867, Stop: 39454, Start Num: 31

Candidate Starts for Ochi17_56:

(23, 38837), (Start: 31 @38867 has 146 MA's), (32, 38885), (Start: 34 @38906 has 1 MA's), (46, 38942), (53, 38978), (Start: 54 @38990 has 1 MA's), (60, 39008), (68, 39029), (78, 39047), (132, 39113), (137, 39140), (150, 39263), (151, 39269), (182, 39407),

Gene: OfUltron_58 Start: 39416, Stop: 40003, Start Num: 31

Candidate Starts for OfUltron_58:

(23, 39386), (Start: 31 @39416 has 146 MA's), (32, 39434), (Start: 34 @39455 has 1 MA's), (46, 39491), (53, 39527), (Start: 54 @39539 has 1 MA's), (60, 39557), (68, 39578), (78, 39596), (132, 39662), (137, 39689), (150, 39812), (151, 39818), (182, 39956),

Gene: Ogopogo_58 Start: 38167, Stop: 38712, Start Num: 31

Candidate Starts for Ogopogo_58:

(Start: 31 @38167 has 146 MA's), (32, 38185), (Start: 34 @38206 has 1 MA's), (41, 38230), (47, 38251), (53, 38278), (Start: 54 @38290 has 1 MA's), (68, 38329), (78, 38347), (132, 38413), (137, 38440), (150, 38533), (151, 38539), (165, 38623), (182, 38665),

Gene: Okabe_48 Start: 33507, Stop: 34151, Start Num: 31

Candidate Starts for Okabe_48:

(Start: 31 @33507 has 146 MA's), (32, 33525), (Start: 34 @33546 has 1 MA's), (39, 33567), (41, 33570), (43, 33579), (46, 33582), (53, 33618), (Start: 54 @33630 has 1 MA's), (98, 33741), (132, 33840), (137, 33867), (150, 33963), (151, 33969), (155, 34014), (158, 34032), (165, 34053), (171, 34083), (177, 34095),

Gene: Oksu_57 Start: 39625, Stop: 40206, Start Num: 29

Candidate Starts for Oksu_57:

(12, 39538), (Start: 29 @39625 has 2 MA's), (32, 39643), (Start: 34 @39664 has 1 MA's), (41, 39688), (47, 39709), (53, 39736), (75, 39793), (137, 39892), (150, 40015), (151, 40021), (182, 40159),

Gene: OldBen_51 Start: 37594, Stop: 38172, Start Num: 31

Candidate Starts for OldBen_51:

(23, 37564), (Start: 31 @37594 has 146 MA's), (32, 37612), (39, 37654), (41, 37657), (43, 37666), (46, 37669), (51, 37690), (53, 37705), (Start: 54 @37717 has 1 MA's), (60, 37735), (68, 37756), (75, 37762), (132, 37834), (137, 37861), (145, 37915), (150, 37984), (151, 37990), (155, 38035), (162, 38065), (167, 38095), (174, 38113),

Gene: Ovechkin_50 Start: 36858, Stop: 37478, Start Num: 28

Candidate Starts for Ovechkin_50:

(16, 36810), (19, 36819), (25, 36849), (Start: 28 @36858 has 4 MA's), (Start: 31 @36861 has 146 MA's), (32, 36879), (Start: 34 @36900 has 1 MA's), (39, 36921), (41, 36924), (43, 36933), (46, 36936), (53, 36972), (Start: 54 @36984 has 1 MA's), (60, 37002), (92, 37071), (100, 37107), (109, 37131), (132, 37203), (137, 37230), (144, 37281), (150, 37350), (151, 37356), (154, 37392),

Gene: OwlsT2W_54 Start: 37885, Stop: 38490, Start Num: 31

Candidate Starts for OwlsT2W_54:

(Start: 31 @37885 has 146 MA's), (32, 37903), (Start: 34 @37924 has 1 MA's), (39, 37945), (41, 37948), (43, 37957), (46, 37960), (48, 37972), (53, 37996), (Start: 54 @38008 has 1 MA's), (72, 38026), (80, 38065), (81, 38071), (131, 38152), (133, 38158), (134, 38167), (150, 38302), (151, 38308), (155, 38353), (162, 38383), (174, 38431),

Gene: PHappiness_49 Start: 35852, Stop: 36541, Start Num: 30

Candidate Starts for PHappiness_49:

(23, 35822), (Start: 30 @35852 has 33 MA's), (32, 35870), (Start: 34 @35891 has 1 MA's), (39, 35912), (41, 35915), (43, 35924), (46, 35927), (48, 35939), (53, 35963), (Start: 54 @35975 has 1 MA's), (88, 36095), (132, 36167), (137, 36194), (150, 36353), (151, 36359), (155, 36404), (162, 36434), (174, 36482),

Gene: PMC_50 Start: 37468, Stop: 38091, Start Num: 31

Candidate Starts for PMC_50:

(Start: 31 @37468 has 146 MA's), (32, 37486), (Start: 34 @37507 has 1 MA's), (39, 37528), (41, 37531), (43, 37540), (46, 37543), (48, 37555), (51, 37564), (53, 37579), (Start: 54 @37591 has 1 MA's), (68, 37630), (75, 37636), (78, 37648), (132, 37714), (137, 37741), (150, 37900), (151, 37906), (165, 37990), (182, 38044),

Gene: Pacc40_48 Start: 35926, Stop: 36615, Start Num: 30

Candidate Starts for Pacc40_48:

(23, 35896), (Start: 30 @35926 has 33 MA's), (32, 35944), (Start: 34 @35965 has 1 MA's), (39, 35986), (41, 35989), (43, 35998), (46, 36001), (48, 36013), (53, 36037), (Start: 54 @36049 has 1 MA's), (88, 36169), (132, 36241), (137, 36268), (150, 36427), (151, 36433), (155, 36478), (162, 36508), (174, 36556),

Gene: PatoPoderoso_50 Start: 36527, Stop: 37195, Start Num: 18

Candidate Starts for PatoPoderoso_50:

(15, 36518), (18, 36527), (26, 36557), (Start: 28 @36566 has 4 MA's), (Start: 31 @36569 has 146 MA's), (32, 36587), (Start: 34 @36599 has 1 MA's), (39, 36620), (41, 36623), (43, 36632), (46, 36635), (47, 36644), (53, 36671), (Start: 54 @36683 has 1 MA's), (88, 36803), (132, 36875), (137, 36902), (150, 36995), (151, 37001), (155, 37046), (158, 37064), (162, 37079), (165, 37085),

Gene: Peridot_55 Start: 37128, Stop: 37712, Start Num: 31

Candidate Starts for Peridot_55:

(23, 37098), (Start: 31 @37128 has 146 MA's), (32, 37146), (Start: 34 @37167 has 1 MA's), (39, 37188), (41, 37191), (43, 37200), (46, 37203), (53, 37239), (Start: 54 @37251 has 1 MA's), (132, 37374), (137, 37401), (145, 37455), (150, 37524), (151, 37530), (155, 37575), (162, 37605), (174, 37653),

Gene: Phasih_52 Start: 37932, Stop: 38681, Start Num: 31

Candidate Starts for Phasih_52:

(Start: 31 @37932 has 146 MA's), (32, 37950), (Start: 34 @37971 has 1 MA's), (39, 37992), (41, 37995), (43, 38004), (46, 38007), (51, 38028), (53, 38043), (60, 38073), (68, 38094), (75, 38100), (87, 38169), (94, 38208), (97, 38220), (113, 38268), (132, 38343), (137, 38370), (150, 38493), (151, 38499), (152, 38511), (155, 38544), (158, 38562), (165, 38583),

Gene: Phatniss_52 Start: 37640, Stop: 38224, Start Num: 31

Candidate Starts for Phatniss_52:

(Start: 31 @37640 has 146 MA's), (32, 37658), (Start: 34 @37679 has 1 MA's), (39, 37700), (41, 37703), (43, 37712), (46, 37715), (53, 37751), (Start: 54 @37763 has 1 MA's), (132, 37886), (137, 37913), (145, 37967), (150, 38036), (151, 38042), (155, 38087), (162, 38117), (174, 38165),

Gene: Philus_57 Start: 38793, Stop: 39410, Start Num: 31

Candidate Starts for Philus_57:

(Start: 31 @38793 has 146 MA's), (32, 38811), (Start: 34 @38832 has 1 MA's), (39, 38853), (41, 38856), (43, 38865), (46, 38868), (48, 38880), (53, 38904), (Start: 54 @38916 has 1 MA's), (72, 38934), (80, 38973), (81, 38979), (131, 39060), (133, 39066), (134, 39075), (150, 39210), (151, 39216), (155, 39261), (158, 39279), (162, 39294), (165, 39300),

Gene: PhlipPhlop_53 Start: 38629, Stop: 39168, Start Num: 31

Candidate Starts for PhlipPhlop_53:

(Start: 31 @38629 has 146 MA's), (32, 38647), (Start: 34 @38668 has 1 MA's), (39, 38689), (41, 38692), (43, 38701), (46, 38704), (48, 38716), (53, 38740), (Start: 54 @38752 has 1 MA's), (68, 38791), (75, 38797), (78, 38809), (132, 38869), (137, 38896), (150, 38989), (151, 38995), (165, 39079), (182, 39121),

Gene: Pippy_52 Start: 36472, Stop: 37119, Start Num: 31

Candidate Starts for Pippy_52:

(23, 36442), (Start: 31 @36472 has 146 MA's), (32, 36490), (Start: 34 @36511 has 1 MA's), (39, 36532), (41, 36535), (43, 36544), (46, 36547), (53, 36583), (Start: 54 @36595 has 1 MA's), (68, 36634), (132, 36712), (137, 36739), (150, 36898), (151, 36904), (158, 36967),

Gene: Plumbus_55 Start: 37701, Stop: 38279, Start Num: 31

Candidate Starts for Plumbus_55:

(23, 37671), (Start: 31 @37701 has 146 MA's), (32, 37719), (Start: 34 @37740 has 1 MA's), (38, 37755), (43, 37773), (46, 37776), (53, 37812), (Start: 54 @37824 has 1 MA's), (60, 37842), (68, 37863), (132, 37941), (137, 37968), (150, 38091), (155, 38142), (157, 38157), (162, 38172), (174, 38220),

Gene: Poenanya_53 Start: 38418, Stop: 39137, Start Num: 31

Candidate Starts for Poenanya_53:

(Start: 31 @38418 has 146 MA's), (32, 38436), (Start: 34 @38457 has 1 MA's), (39, 38478), (41, 38481), (43, 38490), (46, 38493), (53, 38529), (Start: 54 @38541 has 1 MA's), (60, 38559), (68, 38580), (75, 38586), (87, 38655), (94, 38694), (97, 38706), (113, 38754), (132, 38829), (137, 38856), (150, 38949), (151, 38955), (155, 39000), (162, 39030), (174, 39078),

Gene: Polka14_52 Start: 37024, Stop: 37638, Start Num: 31

Candidate Starts for Polka14_52:

(Start: 31 @37024 has 146 MA's), (32, 37042), (Start: 34 @37063 has 1 MA's), (39, 37084), (41, 37087), (43, 37096), (46, 37099), (53, 37135), (60, 37165), (68, 37186), (75, 37192), (78, 37204), (132, 37264), (137, 37291), (150, 37450), (151, 37456), (155, 37501), (162, 37531), (174, 37579),

Gene: Pollywog_54 Start: 38085, Stop: 38915, Start Num: 31

Candidate Starts for Pollywog_54:

(23, 38055), (Start: 31 @38085 has 146 MA's), (32, 38103), (Start: 34 @38124 has 1 MA's), (39, 38145), (41, 38148), (43, 38157), (46, 38160), (53, 38196), (Start: 54 @38208 has 1 MA's), (88, 38328), (93, 38355), (132, 38547), (137, 38574), (150, 38733), (151, 38739), (155, 38784), (158, 38802), (182, 38868), (183, 38883),

Gene: Polo2Bam_59 Start: 37497, Stop: 38108, Start Num: 31

Candidate Starts for Polo2Bam_59:

(23, 37467), (Start: 31 @37497 has 146 MA's), (32, 37515), (Start: 34 @37536 has 1 MA's), (39, 37557), (41, 37560), (43, 37569), (46, 37572), (53, 37608), (Start: 54 @37620 has 1 MA's), (68, 37659), (75, 37665), (132, 37737), (137, 37764), (150, 37887), (151, 37893), (158, 37956),

Gene: PopTart_47 Start: 36238, Stop: 36744, Start Num: 30

Candidate Starts for PopTart_47:

(23, 36208), (Start: 30 @36238 has 33 MA's), (32, 36256), (Start: 34 @36277 has 1 MA's), (39, 36298), (46, 36313), (48, 36325), (53, 36349), (Start: 54 @36361 has 1 MA's), (68, 36400), (75, 36406), (137, 36505), (150, 36553), (165, 36643), (182, 36697),

Gene: Priscilla_54 Start: 37700, Stop: 38347, Start Num: 31

Candidate Starts for Priscilla_54:

(23, 37670), (Start: 31 @37700 has 146 MA's), (32, 37718), (Start: 34 @37739 has 1 MA's), (41, 37763), (43, 37772), (46, 37775), (53, 37811), (Start: 54 @37823 has 1 MA's), (68, 37862), (132, 37940), (137, 37967), (150, 38126), (151, 38132), (158, 38195),

Gene: QuickMath_54 Start: 39271, Stop: 39849, Start Num: 31

Candidate Starts for QuickMath_54:

(23, 39241), (Start: 31 @39271 has 146 MA's), (32, 39289), (Start: 34 @39310 has 1 MA's), (38, 39325), (43, 39343), (46, 39346), (53, 39382), (Start: 54 @39394 has 1 MA's), (60, 39412), (68, 39433), (132, 39511), (137, 39538), (150, 39661), (155, 39712), (157, 39727), (162, 39742), (174, 39790),

Gene: Quico_62 Start: 39707, Stop: 40312, Start Num: 30

Candidate Starts for Quico_62:

(23, 39677), (Start: 30 @39707 has 33 MA's), (32, 39725), (Start: 34 @39746 has 1 MA's), (39, 39767), (41, 39770), (43, 39779), (46, 39782), (48, 39794), (51, 39803), (53, 39818), (Start: 54 @39830 has 1 MA's), (68, 39869), (75, 39875), (137, 39974), (150, 40121), (151, 40127), (155, 40172), (174, 40253),

Gene: Radiance_53 Start: 37766, Stop: 38371, Start Num: 31

Candidate Starts for Radiance_53:

(23, 37736), (Start: 31 @37766 has 146 MA's), (32, 37784), (Start: 34 @37805 has 1 MA's), (38, 37820), (43, 37838), (46, 37841), (48, 37853), (53, 37877), (Start: 54 @37889 has 1 MA's), (72, 37907), (80, 37946), (81, 37952), (131, 38033), (133, 38039), (134, 38048), (150, 38183), (151, 38189), (155, 38234), (162, 38264), (174, 38312),

Gene: Ramsey_54 Start: 38423, Stop: 39037, Start Num: 30

Candidate Starts for Ramsey_54:

(23, 38393), (Start: 30 @38423 has 33 MA's), (32, 38441), (Start: 34 @38462 has 1 MA's), (39, 38483), (41, 38486), (43, 38495), (46, 38498), (48, 38510), (51, 38519), (53, 38534), (60, 38564), (68, 38585), (75, 38591), (132, 38663), (137, 38690), (150, 38849), (151, 38855), (155, 38900), (162, 38930), (174, 38978),

Gene: Renaud18_59 Start: 38442, Stop: 38924, Start Num: 31

Candidate Starts for Renaud18_59:

(Start: 31 @38442 has 146 MA's), (32, 38460), (Start: 34 @38481 has 1 MA's), (39, 38502), (41, 38505), (43, 38514), (46, 38517), (53, 38553), (Start: 54 @38565 has 1 MA's), (68, 38604), (145, 38667), (150, 38736), (151, 38742), (155, 38787), (162, 38817), (174, 38865),

Gene: RitaG_49 Start: 36197, Stop: 36886, Start Num: 30

Candidate Starts for RitaG_49:

(23, 36167), (Start: 30 @36197 has 33 MA's), (32, 36215), (Start: 34 @36236 has 1 MA's), (39, 36257), (41, 36260), (43, 36269), (46, 36272), (48, 36284), (53, 36308), (Start: 54 @36320 has 1 MA's), (88, 36440), (132, 36512), (137, 36539), (150, 36698), (151, 36704), (155, 36749), (162, 36779), (174, 36827),

Gene: Rockne_54 Start: 37468, Stop: 38091, Start Num: 31

Candidate Starts for Rockne_54:

(Start: 31 @37468 has 146 MA's), (32, 37486), (Start: 34 @37507 has 1 MA's), (39, 37528), (41, 37531), (43, 37540), (46, 37543), (48, 37555), (51, 37564), (53, 37579), (Start: 54 @37591 has 1 MA's), (68, 37630), (75, 37636), (78, 37648), (132, 37714), (137, 37741), (150, 37900), (151, 37906), (165, 37990), (182, 38044),

Gene: Royals2015_56 Start: 37542, Stop: 38093, Start Num: 31

Candidate Starts for Royals2015_56:

(Start: 31 @37542 has 146 MA's), (32, 37560), (Start: 34 @37581 has 1 MA's), (41, 37605), (43, 37614), (46, 37617), (53, 37653), (Start: 54 @37665 has 1 MA's), (68, 37704), (75, 37710), (132, 37782), (137, 37809), (150, 37902), (151, 37908), (165, 37992),

Gene: Ruby_50 Start: 37417, Stop: 38064, Start Num: 31

Candidate Starts for Ruby_50:

(23, 37387), (Start: 31 @37417 has 146 MA's), (32, 37435), (Start: 34 @37456 has 1 MA's), (39, 37477), (41, 37480), (43, 37489), (46, 37492), (48, 37504), (51, 37513), (53, 37528), (60, 37558), (68, 37579), (75, 37585), (132, 37657), (137, 37684), (150, 37843), (151, 37849), (158, 37912),

Gene: SG4_50 Start: 36264, Stop: 36926, Start Num: 31

Candidate Starts for SG4_50:

(Start: 31 @36264 has 146 MA's), (32, 36282), (Start: 34 @36303 has 1 MA's), (39, 36324), (41, 36327), (43, 36336), (46, 36339), (53, 36375), (Start: 54 @36387 has 1 MA's), (60, 36405), (62, 36426), (65, 36432), (72, 36462), (80, 36501), (81, 36507), (131, 36588), (133, 36594), (134, 36603), (150, 36738), (151, 36744), (155, 36789), (162, 36819), (167, 36849), (174, 36867),

Gene: Saal_56 Start: 38724, Stop: 39521, Start Num: 31

Candidate Starts for Saal_56:

(Start: 31 @38724 has 146 MA's), (32, 38742), (Start: 34 @38763 has 1 MA's), (39, 38784), (41, 38787), (43, 38796), (46, 38799), (53, 38835), (Start: 54 @38847 has 1 MA's), (60, 38865), (101, 38967), (108, 38976), (112, 38982), (116, 39018), (119, 39042), (132, 39114), (137, 39141), (150, 39300), (151, 39306), (158, 39369),

Gene: Sabbb_58 Start: 38465, Stop: 39208, Start Num: 31

Candidate Starts for Sabbb_58:

(23, 38435), (Start: 31 @38465 has 146 MA's), (32, 38483), (Start: 34 @38504 has 1 MA's), (39, 38525), (41, 38528), (43, 38537), (46, 38540), (53, 38576), (Start: 54 @38588 has 1 MA's), (60, 38606), (88, 38708), (91, 38723), (99, 38759), (123, 38783), (132, 38834), (137, 38861), (150, 39020), (151, 39026), (155, 39071), (162, 39101), (167, 39131), (174, 39149),

Gene: Sandalphon_55 Start: 38373, Stop: 38978, Start Num: 31

Candidate Starts for Sandalphon_55:

(23, 38343), (Start: 31 @38373 has 146 MA's), (32, 38391), (Start: 34 @38412 has 1 MA's), (39, 38433), (41, 38436), (43, 38445), (46, 38448), (48, 38460), (53, 38484), (Start: 54 @38496 has 1 MA's), (72, 38514), (80, 38553), (81, 38559), (131, 38640), (133, 38646), (134, 38655), (150, 38790), (151, 38796), (155, 38841), (162, 38871), (174, 38919),

Gene: Sarma624_51 Start: 33538, Stop: 34161, Start Num: 31

Candidate Starts for Sarma624_51:

(Start: 31 @33538 has 146 MA's), (32, 33556), (Start: 34 @33577 has 1 MA's), (39, 33598), (41, 33601), (43, 33610), (46, 33613), (48, 33625), (51, 33634), (53, 33649), (Start: 54 @33661 has 1 MA's), (68, 33700), (75, 33706), (78, 33718), (132, 33784), (137, 33811), (150, 33970), (151, 33976), (165, 34060), (182, 34114),

Gene: Sassafras_51 Start: 36391, Stop: 37032, Start Num: 31

Candidate Starts for Sassafras_51:

(Start: 31 @36391 has 146 MA's), (32, 36409), (39, 36451), (41, 36454), (43, 36463), (46, 36466), (48, 36478), (53, 36502), (Start: 54 @36514 has 1 MA's), (78, 36571), (114, 36679), (132, 36733), (137, 36760), (150, 36853), (151, 36859), (165, 36943), (182, 36985),

Gene: SassyB_47 Start: 36238, Stop: 36744, Start Num: 30

Candidate Starts for SassyB_47:

(23, 36208), (Start: 30 @36238 has 33 MA's), (32, 36256), (Start: 34 @36277 has 1 MA's), (39, 36298), (46, 36313), (48, 36325), (53, 36349), (Start: 54 @36361 has 1 MA's), (68, 36400), (75, 36406), (137, 36505), (150, 36553), (165, 36643), (182, 36697),

Gene: Scottish_52 Start: 37209, Stop: 37898, Start Num: 30

Candidate Starts for Scottish_52:

(23, 37179), (Start: 30 @37209 has 33 MA's), (32, 37227), (Start: 34 @37248 has 1 MA's), (39, 37269), (41, 37272), (43, 37281), (46, 37284), (48, 37296), (53, 37320), (Start: 54 @37332 has 1 MA's), (88, 37452), (132, 37524), (137, 37551), (150, 37710), (151, 37716), (155, 37761), (162, 37791), (174, 37839),

Gene: SeaLumen_58 Start: 37497, Stop: 38108, Start Num: 31

Candidate Starts for SeaLumen_58:

(23, 37467), (Start: 31 @37497 has 146 MA's), (32, 37515), (Start: 34 @37536 has 1 MA's), (39, 37557), (41, 37560), (43, 37569), (46, 37572), (53, 37608), (Start: 54 @37620 has 1 MA's), (68, 37659), (75, 37665), (132, 37737), (137, 37764), (150, 37887), (151, 37893), (158, 37956),

Gene: Seabastian_58 Start: 39417, Stop: 40004, Start Num: 31

Candidate Starts for Seabastian_58:

(23, 39387), (Start: 31 @39417 has 146 MA's), (32, 39435), (Start: 34 @39456 has 1 MA's), (46, 39492), (53, 39528), (Start: 54 @39540 has 1 MA's), (60, 39558), (68, 39579), (78, 39597), (132, 39663), (137, 39690), (150, 39813), (151, 39819), (182, 39957),

Gene: Seagreen_53 Start: 36966, Stop: 37559, Start Num: 30

Candidate Starts for Seagreen_53:

(23, 36936), (Start: 30 @36966 has 33 MA's), (32, 36984), (Start: 34 @37005 has 1 MA's), (39, 37026), (41, 37029), (43, 37038), (46, 37041), (53, 37077), (Start: 54 @37089 has 1 MA's), (68, 37128), (75, 37134), (132, 37206), (137, 37233), (150, 37356), (151, 37362), (155, 37407), (158, 37425), (162, 37440), (165, 37446), (167, 37476), (183, 37527), (184, 37530),

Gene: ShiLan_53 Start: 37647, Stop: 38294, Start Num: 31

Candidate Starts for ShiLan_53:

(23, 37617), (Start: 31 @37647 has 146 MA's), (32, 37665), (Start: 34 @37686 has 1 MA's), (41, 37710), (43, 37719), (46, 37722), (53, 37758), (Start: 54 @37770 has 1 MA's), (68, 37809), (132, 37887), (137, 37914), (150, 38073), (151, 38079), (158, 38142),

Gene: ShowerHandel_57 Start: 37614, Stop: 38261, Start Num: 31

Candidate Starts for ShowerHandel_57:

(23, 37584), (Start: 31 @37614 has 146 MA's), (32, 37632), (Start: 34 @37653 has 1 MA's), (41, 37677), (43, 37686), (46, 37689), (53, 37725), (Start: 54 @37737 has 1 MA's), (68, 37776), (132, 37854), (137, 37881), (150, 38040), (151, 38046), (158, 38109),

Gene: ShroomBoi_55 Start: 37834, Stop: 38421, Start Num: 31

Candidate Starts for ShroomBoi_55:

(23, 37804), (Start: 31 @37834 has 146 MA's), (32, 37852), (Start: 34 @37873 has 1 MA's), (38, 37888), (43, 37906), (46, 37909), (53, 37945), (56, 37957), (64, 37975), (125, 38077), (128, 38092), (136, 38128), (141, 38152), (143, 38164), (150, 38233), (151, 38239), (155, 38284), (162, 38314), (174, 38362),

Gene: SiSi_51 Start: 36788, Stop: 37366, Start Num: 31

Candidate Starts for SiSi_51:

(23, 36758), (Start: 31 @36788 has 146 MA's), (32, 36806), (Start: 34 @36827 has 1 MA's), (38, 36842), (43, 36860), (46, 36863), (53, 36899), (Start: 54 @36911 has 1 MA's), (60, 36929), (68, 36950), (132, 37028), (137, 37055), (150, 37178), (155, 37229), (157, 37244), (162, 37259), (174, 37307),

Gene: SimranZ1_53 Start: 36878, Stop: 37609, Start Num: 31

Candidate Starts for SimranZ1_53:

(Start: 31 @36878 has 146 MA's), (32, 36896), (Start: 34 @36917 has 1 MA's), (46, 36953), (48, 36965), (53, 36989), (Start: 54 @37001 has 1 MA's), (63, 37040), (70, 37058), (72, 37061), (93, 37139), (103, 37178), (107, 37190), (137, 37295), (145, 37349), (150, 37418), (151, 37424), (158, 37487), (182, 37562),

Gene: Soul22_57 Start: 37584, Stop: 38414, Start Num: 31

Candidate Starts for Soul22_57:

(Start: 31 @37584 has 146 MA's), (32, 37602), (Start: 34 @37623 has 1 MA's), (39, 37644), (41, 37647), (43, 37656), (46, 37659), (53, 37695), (Start: 54 @37707 has 1 MA's), (68, 37746), (88, 37827), (93, 37854), (132, 38046), (137, 38073), (150, 38232), (151, 38238), (165, 38322), (182, 38367),

Gene: Spikelee_60 Start: 39125, Stop: 39748, Start Num: 31

Candidate Starts for Spikelee_60:

(Start: 31 @39125 has 146 MA's), (32, 39143), (Start: 34 @39164 has 1 MA's), (39, 39185), (41, 39188), (43, 39197), (46, 39200), (48, 39212), (53, 39236), (Start: 54 @39248 has 1 MA's), (88, 39368), (132, 39440), (137, 39467), (150, 39560), (151, 39566), (155, 39611), (162, 39641), (178, 39689),

Gene: Spoonbill_51 Start: 36151, Stop: 36924, Start Num: 30

Candidate Starts for Spoonbill_51:

(23, 36121), (Start: 30 @36151 has 33 MA's), (32, 36169), (Start: 34 @36190 has 1 MA's), (38, 36205), (43, 36223), (46, 36226), (48, 36238), (53, 36262), (Start: 54 @36274 has 1 MA's), (88, 36394), (132, 36466), (137, 36493), (150, 36652), (151, 36658), (155, 36703), (162, 36733), (167, 36763), (174, 36781), (185, 36859),

Gene: StAnnes_52 Start: 37618, Stop: 38367, Start Num: 31

Candidate Starts for StAnnes_52:

(Start: 31 @37618 has 146 MA's), (32, 37636), (Start: 34 @37657 has 1 MA's), (39, 37678), (41, 37681), (46, 37693), (53, 37729), (Start: 54 @37741 has 1 MA's), (68, 37780), (75, 37786), (87, 37855), (94, 37894), (97, 37906), (113, 37954), (132, 38029), (137, 38056), (144, 38110), (150, 38179), (151, 38185), (155, 38230), (158, 38248), (165, 38269), (171, 38299), (177, 38311),

Gene: Stap_52 Start: 36952, Stop: 37641, Start Num: 30

Candidate Starts for Stap_52:

(23, 36922), (Start: 30 @36952 has 33 MA's), (32, 36970), (Start: 34 @36991 has 1 MA's), (38, 37006), (43, 37024), (46, 37027), (48, 37039), (53, 37063), (Start: 54 @37075 has 1 MA's), (88, 37195), (132, 37267), (137, 37294), (150, 37453), (151, 37459), (155, 37504), (162, 37534), (167, 37564), (174, 37582),

Gene: Starcevich_53 Start: 37660, Stop: 38220, Start Num: 30

Candidate Starts for Starcevich_53:

(14, 37606), (Start: 30 @37660 has 33 MA's), (32, 37678), (Start: 34 @37699 has 1 MA's), (46, 37735), (48, 37747), (53, 37771), (Start: 54 @37783 has 1 MA's), (75, 37828), (132, 37900), (137, 37927), (150, 38020), (151, 38026), (155, 38071), (158, 38089), (162, 38104), (165, 38110),

Gene: SwagPigglett_59 Start: 39987, Stop: 40571, Start Num: 31

Candidate Starts for SwagPigglett_59:

(Start: 31 @39987 has 146 MA's), (32, 40005), (Start: 34 @40026 has 1 MA's), (39, 40047), (41, 40050), (43, 40059), (46, 40062), (53, 40098), (Start: 54 @40110 has 1 MA's), (132, 40233), (137, 40260), (145, 40314), (150, 40383), (151, 40389), (155, 40434), (162, 40464), (174, 40512),

Gene: TChen_53 Start: 37875, Stop: 38666, Start Num: 5

Candidate Starts for TChen_53:

(1, 37824), (2, 37833), (3, 37863), (4, 37872), (Start: 5 @37875 has 3 MA's), (6, 37893), (Start: 7 @37914 has 1 MA's), (8, 37935), (9, 37938), (10, 37947), (11, 37950), (12, 37962), (13, 37986), (15, 37998), (21, 38016), (24, 38037), (27, 38043), (33, 38088), (49, 38142), (72, 38202), (80, 38241), (81, 38247), (131, 38328), (133, 38334), (134, 38343), (150, 38478), (155, 38529), (158, 38547), (162, 38559), (174, 38607),

Gene: Taj_57 Start: 38366, Stop: 39082, Start Num: 31

Candidate Starts for Taj_57:

(Start: 31 @38366 has 146 MA's), (32, 38384), (38, 38420), (39, 38426), (42, 38441), (43, 38447), (46, 38462), (48, 38474), (51, 38483), (53, 38498), (59, 38522), (102, 38660), (112, 38672), (132, 38720), (137, 38747), (150, 38894), (151, 38900), (155, 38945), (158, 38963), (165, 38984), (171, 39014), (177, 39026),

Gene: Tchotchke_54 Start: 36839, Stop: 37462, Start Num: 31

Candidate Starts for Tchotchke_54:

(Start: 31 @36839 has 146 MA's), (32, 36857), (Start: 34 @36878 has 1 MA's), (39, 36899), (41, 36902), (43, 36911), (46, 36914), (48, 36926), (53, 36950), (Start: 54 @36962 has 1 MA's), (88, 37082), (132, 37154), (137, 37181), (150, 37274), (151, 37280), (155, 37325), (162, 37355), (178, 37403),

Gene: ThetaBob_57 Start: 37869, Stop: 38615, Start Num: 28

Candidate Starts for ThetaBob_57:

(Start: 28 @37869 has 4 MA's), (32, 37887), (38, 37923), (39, 37929), (46, 37944), (48, 37956), (50, 37959), (51, 37965), (53, 37980), (Start: 54 @37992 has 1 MA's), (59, 38004), (82, 38067), (92, 38121), (100, 38157), (123, 38181), (132, 38232), (137, 38259), (144, 38313), (150, 38382), (151, 38388), (155, 38433), (161, 38469), (170, 38508),

Gene: Tootsieroll_55 Start: 36978, Stop: 37592, Start Num: 30

Candidate Starts for Tootsieroll_55:

(23, 36948), (Start: 30 @36978 has 33 MA's), (32, 36996), (Start: 34 @37017 has 1 MA's), (39, 37038), (41, 37041), (43, 37050), (46, 37053), (48, 37065), (51, 37074), (53, 37089), (60, 37119), (68, 37140), (75, 37146), (132, 37218), (137, 37245), (150, 37404), (151, 37410), (155, 37455), (162, 37485), (174,

37533),

Gene: Topiatin_59 Start: 39055, Stop: 39666, Start Num: 31

Candidate Starts for Topiatin_59:

(Start: 31 @39055 has 146 MA's), (32, 39073), (Start: 34 @39094 has 1 MA's), (41, 39118), (43, 39127), (46, 39130), (53, 39166), (Start: 54 @39178 has 1 MA's), (68, 39217), (75, 39223), (132, 39295), (137, 39322), (150, 39445), (151, 39451), (158, 39514),

Gene: Toron_57 Start: 39017, Stop: 39823, Start Num: 17

Candidate Starts for Toron_57:

(Start: 17 @39017 has 3 MA's), (22, 39035), (27, 39059), (Start: 31 @39068 has 146 MA's), (36, 39116), (44, 39155), (45, 39158), (46, 39164), (79, 39272), (106, 39320), (115, 39359), (126, 39413), (138, 39482), (139, 39500), (150, 39617), (151, 39623), (152, 39635), (155, 39668), (158, 39686),

Gene: Tweety_53 Start: 38001, Stop: 38609, Start Num: 31

Candidate Starts for Tweety_53:

(Start: 31 @38001 has 146 MA's), (32, 38019), (Start: 34 @38040 has 1 MA's), (39, 38061), (41, 38064), (43, 38073), (46, 38076), (48, 38088), (53, 38112), (Start: 54 @38124 has 1 MA's), (72, 38142), (80, 38181), (81, 38187), (131, 38268), (133, 38274), (134, 38283), (150, 38421), (155, 38472), (158, 38490), (165, 38511), (168, 38541), (176, 38553),

Gene: UncleRicky_53 Start: 37888, Stop: 38472, Start Num: 31

Candidate Starts for UncleRicky_53:

(Start: 31 @37888 has 146 MA's), (32, 37906), (Start: 34 @37927 has 1 MA's), (39, 37948), (41, 37951), (43, 37960), (46, 37963), (53, 37999), (Start: 54 @38011 has 1 MA's), (132, 38134), (137, 38161), (145, 38215), (150, 38284), (151, 38290), (155, 38335), (162, 38365), (174, 38413),

Gene: VRedHorse_53 Start: 36755, Stop: 37381, Start Num: 31

Candidate Starts for VRedHorse_53:

(Start: 31 @36755 has 146 MA's), (32, 36773), (Start: 34 @36794 has 1 MA's), (39, 36815), (41, 36818), (43, 36827), (46, 36830), (53, 36866), (60, 36896), (68, 36917), (75, 36923), (78, 36935), (132, 36995), (137, 37022), (150, 37181), (151, 37187), (155, 37232), (158, 37250), (162, 37265), (165, 37271),

Gene: Velveteen_48 Start: 33538, Stop: 34161, Start Num: 31

Candidate Starts for Velveteen_48:

(Start: 31 @33538 has 146 MA's), (32, 33556), (Start: 34 @33577 has 1 MA's), (39, 33598), (41, 33601), (43, 33610), (46, 33613), (48, 33625), (51, 33634), (53, 33649), (Start: 54 @33661 has 1 MA's), (68, 33700), (75, 33706), (78, 33718), (132, 33784), (137, 33811), (150, 33970), (151, 33976), (165, 34060), (182, 34114),

Gene: Violac_56 Start: 39000, Stop: 39644, Start Num: 31

Candidate Starts for Violac_56:

(Start: 31 @39000 has 146 MA's), (32, 39018), (Start: 34 @39039 has 1 MA's), (39, 39060), (41, 39063), (43, 39072), (46, 39075), (48, 39087), (53, 39111), (Start: 54 @39123 has 1 MA's), (68, 39162), (75, 39168), (132, 39240), (137, 39267), (150, 39423), (151, 39429), (158, 39492),

Gene: Vivum_55 Start: 37973, Stop: 38578, Start Num: 31

Candidate Starts for Vivum_55:

(23, 37943), (Start: 31 @37973 has 146 MA's), (32, 37991), (Start: 34 @38012 has 1 MA's), (38, 38027), (43, 38045), (46, 38048), (48, 38060), (53, 38084), (Start: 54 @38096 has 1 MA's), (72, 38114), (80, 38153), (81, 38159), (131, 38240), (133, 38246), (134, 38255), (150, 38390), (151, 38396), (155, 38441), (162, 38471), (174, 38519),

Gene: Wachhund_55 Start: 37144, Stop: 37749, Start Num: 31

Candidate Starts for Wachhund_55:

(Start: 31 @37144 has 146 MA's), (32, 37162), (Start: 34 @37183 has 1 MA's), (39, 37204), (41, 37207), (43, 37216), (46, 37219), (48, 37231), (53, 37255), (Start: 54 @37267 has 1 MA's), (72, 37285), (80, 37324), (81, 37330), (131, 37411), (133, 37417), (134, 37426), (150, 37561), (151, 37567), (155, 37612), (158, 37630), (165, 37651), (168, 37681), (176, 37693),

Gene: Wee_56 Start: 38638, Stop: 39354, Start Num: 31

Candidate Starts for Wee_56:

(Start: 31 @38638 has 146 MA's), (32, 38656), (38, 38692), (39, 38698), (42, 38713), (43, 38719), (46, 38734), (48, 38746), (51, 38755), (53, 38770), (59, 38794), (102, 38932), (112, 38944), (132, 38992), (137, 39019), (150, 39166), (151, 39172), (155, 39217), (160, 39247), (173, 39295),

Gene: Whatsapiecost_54 Start: 36928, Stop: 37551, Start Num: 31

Candidate Starts for Whatsapiecost_54:

(Start: 31 @36928 has 146 MA's), (32, 36946), (Start: 34 @36967 has 1 MA's), (39, 36988), (41, 36991), (43, 37000), (46, 37003), (48, 37015), (51, 37024), (53, 37039), (Start: 54 @37051 has 1 MA's), (68, 37090), (75, 37096), (78, 37108), (132, 37174), (137, 37201), (150, 37360), (151, 37366), (165, 37450), (182, 37504),

Gene: Whouxphf_51 Start: 37452, Stop: 38171, Start Num: 31

Candidate Starts for Whouxphf_51:

(23, 37422), (Start: 31 @37452 has 146 MA's), (32, 37470), (Start: 34 @37491 has 1 MA's), (39, 37512), (41, 37515), (43, 37524), (46, 37527), (48, 37539), (53, 37563), (Start: 54 @37575 has 1 MA's), (78, 37632), (121, 37740), (132, 37794), (137, 37821), (150, 37980), (151, 37986), (165, 38070),

Gene: Yorick_53 Start: 37988, Stop: 38635, Start Num: 31

Candidate Starts for Yorick_53:

(23, 37958), (Start: 31 @37988 has 146 MA's), (32, 38006), (Start: 34 @38027 has 1 MA's), (41, 38051), (43, 38060), (46, 38063), (53, 38099), (Start: 54 @38111 has 1 MA's), (68, 38150), (132, 38228), (137, 38255), (150, 38414), (151, 38420), (158, 38483),

Gene: Yoshi_65 Start: 38992, Stop: 39624, Start Num: 31

Candidate Starts for Yoshi_65:

(20, 38950), (Start: 31 @38992 has 146 MA's), (32, 39010), (Start: 34 @39031 has 1 MA's), (46, 39067), (53, 39103), (Start: 54 @39115 has 1 MA's), (68, 39154), (75, 39160), (132, 39238), (137, 39265), (150, 39424), (151, 39430), (155, 39475), (158, 39493), (162, 39508), (165, 39514),

Gene: Zapner_66 Start: 38460, Stop: 39290, Start Num: 31

Candidate Starts for Zapner_66:

(Start: 31 @38460 has 146 MA's), (32, 38478), (Start: 34 @38499 has 1 MA's), (39, 38520), (41, 38523), (43, 38532), (46, 38535), (53, 38571), (Start: 54 @38583 has 1 MA's), (68, 38622), (88, 38703), (93, 38730), (132, 38922), (137, 38949), (150, 39108), (151, 39114), (153, 39135), (165, 39198), (182, 39243),

Gene: Zizzle_58 Start: 39306, Stop: 39890, Start Num: 31

Candidate Starts for Zizzle_58:

(23, 39276), (Start: 31 @39306 has 146 MA's), (32, 39324), (Start: 34 @39345 has 1 MA's), (41, 39369), (43, 39378), (46, 39381), (53, 39417), (Start: 54 @39429 has 1 MA's), (132, 39552), (137, 39579), (145, 39633), (150, 39702), (151, 39708), (155, 39753), (162, 39783), (174, 39831),