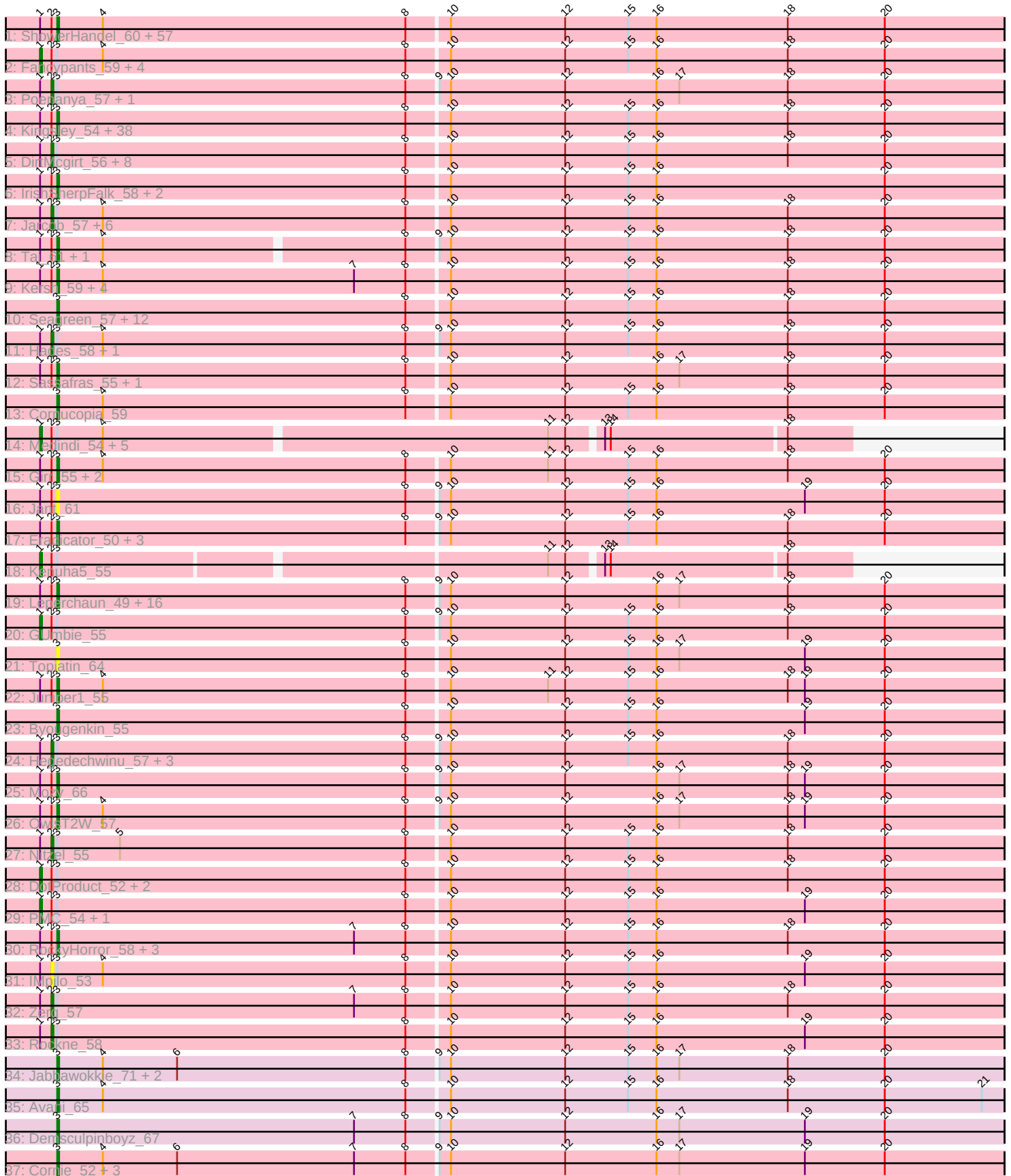


Pham 277795



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 277795 Report

This analysis was run 02/07/26 on database version 634.

Pham number 277795 has 212 members, 21 are drafts.

Phages represented in each track:

- Track 1 : ShowerHandel_60, Cabrinians_58, OlympiaSaint_59, Zizzle_61, Burwell21_55, Seabastian_62, Jinglebell_62, Brocalys_52, OfUltron_62, SiSi_55, Kimberlium_59, Oksu_61, Dante_58, Martik_57, Emmaloid_58, Lizziana_63, DaWorst_58, Starceвич_56, Latretium_59, Llama_62, KristaRAM_60, AlpineSix_62, LunaBlu_59, MulchExplorer_63, Violac_59, Vivum_60, NewHope4_58, ShiLan_56, Mantra_53, Clifton_52, Radiance_56, Hlubikazi_53, Saal_59, Alexphander_61, Mwanjiwa_63, MadMen_55, Galactic_56, Madiba_55, Gorge_61, Mattes_61, Slim_58, SwagPigglett_62, Pippy_55, FreddyB_58, Ibhubesi_57, Koella_51, Strokeseat_53, Chuckly_60, QuickMath_58, Priscilla_57, PhilipPhlop_57, LastJedi_51, GigiOuiOui_53, Karhdo_54, Rita_58, Yorick_56, Rialto_63, Crumble_52
- Track 2 : Fancypants_59, Ochi17_60, EmiMonkey_55, BobaPhett_61, Polo2Bam_62
- Track 3 : Poenanya_57, Empress_55
- Track 4 : Kingsley_54, Estave1_60, Phatniss_55, Llij_53, LilMoolah_55, Whouxphf_54, Drago_55, Scottish_55, Sabbb_61, Mova_58, Leozinho_56, Spikelee_64, OldBen_54, SimranZ1_57, Velveteen_52, DRBy19_60, Brookers_54, Renaud18_62, DosHalletts_59, Beanstalk_57, LittleShirley_56, Peridot_58, Coco12_56, ByChance_49, Eish_61, James_61, VRedHorse_57, Maravista_58, Sarma624_55, UncleRicky_56, Tootsieroll_58, Nivrat_53, Lucia_57, Philus_60, Ovechkin_56, Mutaforma13_61, Mahavrat_55, Lorde_57, Royals2015_60
- Track 5 : DirtMcgirt_56, Job42_59, Blexus_55, Firehouse51_58, BigPhil_53, BlueCrab_57, Totinger_56, Cerasum_53, Plumbus_59
- Track 6 : IrishSherpFalk_58, Spartacus_59, WillSterrel_58
- Track 7 : Jarcob_57, Pollywog_58, NormanBulbieJr_57, Jennelsea_54, Modragons_61, Doug_59, Mandlovu_53
- Track 8 : Taj_61, CaptainTrips_54
- Track 9 : Kersh_59, ShroomBoi_59, KingJulian_57, PatoPoderoso_54, Corium_54
- Track 10 : Seagreen_57, Phasih_55, Soul22_63, JalFarm20_70, TChen_57, Harley_60, Gandolph_60, LunaStella_55, Che8_62, ThetaBob_61, Yoshi_69, Juice456_58, EleanorGeorge_58
- Track 11 : Hades_58, DeadP_63
- Track 12 : Sassafras_55, Inventum_52
- Track 13 : Cornucopia_59
- Track 14 : Medindi_54, Krakatau_55, Melissauren88_56, Beakin_59, Bipolar_56, Ms6_53
- Track 15 : Girr_55, Ruby_53, MisterCuddles_55
- Track 16 : Jant_61

- Track 17 : Eradicator_50, MinionDave_56, Guppsters_58, IbOuu_58
- Track 18 : Kenuha5_55
- Track 19 : Leperchaun_49, Daenerys_51, JoeyJr_52, RedBird_55, Deb65_52, PHappiness_52, Dorothy_55, Stap_55, Geralt_52, RitaG_52, BodEinwohner17_57, KingMidas_56, Pacc40_51, Spoonbill_54, Doomphist_57, Nimbo_51, Polka14_55
- Track 20 : GUmbie_55
- Track 21 : Topiatin_64
- Track 22 : Juniper1_55
- Track 23 : Byougenkin_55
- Track 24 : Hegedechwinu_57, BuzzLyseyear_63, SG4_54, Enby_58
- Track 25 : Mozy_66
- Track 26 : OwlsT2W_57
- Track 27 : Nitzel_55
- Track 28 : DotProduct_52, DaddyRickover_56, Grimmer_67
- Track 29 : PMC_54, Boomer_62
- Track 30 : RockyHorror_58, Marker_59, DillTech15_54, Fastidio_57
- Track 31 : IMpilo_53
- Track 32 : Zerg_57
- Track 33 : Rockne_58
- Track 34 : Jabbawokkie_71, Zapner_70, Blarby_69
- Track 35 : Avani_65
- Track 36 : Demsculpinboyz_67
- Track 37 : Cornie_52, Cheesepuff_63, Che9d_65, DoRead_59

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

The start number called the most often in the published annotations is 3, it was called in 153 of the 191 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Alexphander_61, AlpineSix_62, Avani_65, Beanstalk_57, Blarby_69, BodEinwohner17_57, Brocalys_52, Brookers_54, Burwell21_55, ByChance_49, Byougenkin_55, Cabrinians_58, CaptainTrips_54, Che8_62, Che9d_65, Cheesepuff_63, Chuckly_60, Clifton_52, Coco12_56, Corium_54, Cornie_52, Cornucopia_59, Crumble_52, DRBy19_60, DaWorst_58, Daenerys_51, Dante_58, Deb65_52, Demsculpinboyz_67, DillTech15_54, DoRead_59, Doomphist_57, Dorothy_55, DosHalletts_59, Drago_55, Eish_61, EleanorGeorge_58, Emmaloid_58, Eradicator_50, Estave1_60, Fastidio_57, FreddyB_58, Galactic_56, Gandalph_60, Geralt_52, GigiOuiOui_53, Girr_55, Gorge_61, Guppsters_58, Harley_60, Hlubikazi_53, IbOuu_58, Ihubesi_57, Inventum_52, IrishSherpFalk_58, Jabbawokkie_71, JalFarm20_70, James_61, Jant_61, Jinglebell_62, JoeyJr_52, Juice456_58, Juniper1_55, Karhdo_54, Kersh_59, Kimberlium_59, KingJulian_57, KingMidas_56, Kingsley_54, Koella_51, KristaRAM_60, LastJedi_51, Latretium_59, Leozinho_56, Leperchaun_49, LilMoolah_55, LittleShirley_56, Lizziana_63, Llama_62, Llij_53, Lorde_57, Lucia_57, LunaBlu_59, LunaStella_55, MadMen_55, Madiba_55, Mahavrat_55, Mantra_53, Maravista_58, Marker_59, Martik_57, Mattes_61, MinionDave_56, MisterCuddles_55, Mova_58, Mozy_66, MulchExplorer_63, Mutaforma13_61, Mwanjiwa_63, NewHope4_58, Nimbo_51, Nivrat_53, OfUltron_62, Oksu_61, OldBen_54, OlympiaSaint_59, Ovechkin_56, OwlsT2W_57, PHappiness_52, Pacc40_51, PatoPoderoso_54, Peridot_58,

Phasih_55, Phatniss_55, Philus_60, PhlipPhlop_57, Pippy_55, Polka14_55, Priscilla_57, QuickMath_58, Radiance_56, RedBird_55, Renaud18_62, Rialto_63, RitaG_52, Rita_58, RockyHorror_58, Royals2015_60, Ruby_53, Saal_59, Sabbb_61, Sarma624_55, Sassafras_55, Scottish_55, Seabastian_62, Seagreen_57, ShiLan_56, ShowerHandel_60, ShroomBoi_59, SiSi_55, SimranZ1_57, Slim_58, Soul22_63, Spartacus_59, Spikelee_64, Spoonbill_54, Stap_55, Starceвич_56, Strokeseat_53, SwagPigglett_62, TChen_57, Taj_61, ThetaBob_61, Tootsieroll_58, Topiatin_64, UncleRicky_56, VRedHorse_57, Velveteen_52, Violac_59, Vivum_60, Whouxphf_54, WillSterrel_58, Yorick_56, Yoshi_69, Zapner_70, Zizzle_61,

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

- Beakin_59, BigPhil_53, Bipolar_56, Blexus_55, BlueCrab_57, BobaPhett_61, Boomer_62, BuzzLyseyear_63, Cerasum_53, DaddyRickover_56, DeadP_63, DirtMcgirt_56, DotProduct_52, Doug_59, EmiMonkey_55, Empress_55, Enby_58, Fancypants_59, Firehouse51_58, GUmbie_55, Grimmer_67, Hades_58, Hegedechwinu_57, IMpilo_53, JarcoB_57, Jennelsea_54, Job42_59, Kenuha5_55, Krakatau_55, Mandlovu_53, Medindi_54, Melissauren88_56, Modragons_61, Ms6_53, Nitzel_55, NormanBulbieJr_57, Ochi17_60, PMC_54, Plumbus_59, Poenanya_57, Pollywog_58, Polo2Bam_62, Rockne_58, SG4_54, Totinger_56, Zerg_57,

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

-

Summary by start number:

Start 1:

- Found in 187 of 212 (88.2%) of genes in pham
- Manual Annotations of this start: 12 of 191
- Called 9.6% of time when present
- Phage (with cluster) where this start called: Beakin_59 (F1), Bipolar_56 (F1), BobaPhett_61 (F1), Boomer_62 (F1), DaddyRickover_56 (F1), DotProduct_52 (F1), EmiMonkey_55 (F1), Fancypants_59 (F1), GUmbie_55 (F1), Grimmer_67 (F1), Kenuha5_55 (F1), Krakatau_55 (F1), Medindi_54 (F1), Melissauren88_56 (F1), Ms6_53 (F1), Ochi17_60 (F1), PMC_54 (F1), Polo2Bam_62 (F1),

Start 2:

- Found in 187 of 212 (88.2%) of genes in pham
- Manual Annotations of this start: 26 of 191
- Called 15.0% of time when present
- Phage (with cluster) where this start called: BigPhil_53 (F1), Blexus_55 (F1), BlueCrab_57 (F1), BuzzLyseyear_63 (F1), Cerasum_53 (F1), DeadP_63 (F1), DirtMcgirt_56 (F1), Doug_59 (F1), Empress_55 (F1), Enby_58 (F1), Firehouse51_58 (F1), Hades_58 (F1), Hegedechwinu_57 (F1), IMpilo_53 (F1), JarcoB_57 (F1), Jennelsea_54 (F1), Job42_59 (F1), Mandlovu_53 (F1), Modragons_61 (F1), Nitzel_55 (F1), NormanBulbieJr_57 (F1), Plumbus_59 (F1), Poenanya_57 (F1), Pollywog_58 (F1), Rockne_58 (F1), SG4_54 (F1), Totinger_56 (F1), Zerg_57 (F1),

Start 3:

- Found in 212 of 212 (100.0%) of genes in pham
- Manual Annotations of this start: 153 of 191
- Called 78.3% of time when present

• Phage (with cluster) where this start called: Alexphander_61 (F1), AlpineSix_62 (F1), Avani_65 (F2), Beanstalk_57 (F1), Blarby_69 (F), BodEinwohner17_57 (F1), Brocalys_52 (F1), Brookers_54 (F1), Burwell21_55 (F1), ByChance_49 (F1), Byougenkin_55 (F1), Cabrinians_58 (F1), CaptainTrips_54 (F1), Che8_62 (F1), Che9d_65 (F2), Cheesepuff_63 (F1), Chuckly_60 (F1), Clifton_52 (F1), Coco12_56 (F1), Corium_54 (F1), Cornie_52 (F5), Cornucopia_59 (F1), Crumble_52 (F1), DRBy19_60 (F1), DaWorst_58 (F1), Daenerys_51 (F1), Dante_58 (F1), Deb65_52 (F1), Demsculpinboyz_67 (F2), DillTech15_54 (F1), DoRead_59 (F1), Doomphist_57 (F1), Dorothy_55 (F1), DosHalletts_59 (F1), Drago_55 (F1), Eish_61 (F1), EleanorGeorge_58 (F1), Emmaloid_58 (F1), Eradicator_50 (F1), Estave1_60 (F1), Fastidio_57 (F1), FreddyB_58 (F1), Galactic_56 (F1), Gandolph_60 (F1), Geralt_52 (F1), GigiOuiOui_53 (F1), Girr_55 (F1), Gorge_61 (F1), Guppsters_58 (F1), Harley_60 (F1), Hlubikazi_53 (F1), IbOuu_58 (F1), Ibhubesi_57 (F1), Inventum_52 (F1), IrishSherpFalk_58 (F1), Jabbawokkie_71 (F2), JalFarm20_70 (F1), James_61 (F1), Jant_61 (F1), Jinglebell_62 (F1), JoeyJr_52 (F1), Juice456_58 (F1), Juniper1_55 (F1), Karhdo_54 (F1), Kersh_59 (F1), Kimberlium_59 (F1), KingJulian_57 (F1), KingMidas_56 (F1), Kingsley_54 (F1), Koella_51 (F1), KristaRAM_60 (F1), LastJedi_51 (F1), Latretium_59 (F1), Leozinho_56 (F1), Leperchaun_49 (F1), LilMoolah_55 (F1), LittleShirley_56 (F1), Lizziana_63 (F1), Llama_62 (F1), Llij_53 (F1), Lorde_57 (F1), Lucia_57 (F1), LunaBlu_59 (F1), LunaStella_55 (F4), MadMen_55 (F1), Madiba_55 (F1), Mahavrat_55 (F1), Mantra_53 (F1), Maravista_58 (F1), Marker_59 (F1), Martik_57 (F1), Mattes_61 (F1), MinionDave_56 (F1), MisterCuddles_55 (F1), Mova_58 (F1), Mozy_66 (F1), MulchExplorer_63 (F1), Mutaforma13_61 (F1), Mwanjiwa_63 (F1), NewHope4_58 (F1), Nimbo_51 (F1), Nivrat_53 (F1), OfUltron_62 (F1), Oksu_61 (F1), OldBen_54 (F1), OlympiaSaint_59 (F1), Ovechkin_56 (F1), OwlsT2W_57 (F1), PHappiness_52 (F1), Pacc40_51 (F1), PatoPoderoso_54 (F1), Peridot_58 (F1), Phasih_55 (F1), Phatniss_55 (F1), Philus_60 (F1), PhilipPhlop_57 (F1), Pippy_55 (F1), Polka14_55 (F1), Priscilla_57 (F1), QuickMath_58 (F1), Radiance_56 (F1), RedBird_55 (F1), Renaud18_62 (F4), Rialto_63 (F1), RitaG_52 (F1), Rita_58 (F1), RockyHorror_58 (F1), Royals2015_60 (F1), Ruby_53 (F1), Saal_59 (F1), Sabbb_61 (F1), Sarma624_55 (F1), Sassafra_55 (F1), Scottish_55 (F1), Seabastian_62 (F1), Seagreen_57 (F1), ShiLan_56 (F1), ShowerHandel_60 (F1), ShroomBoi_59 (F1), SiSi_55 (F1), SimranZ1_57 (F1), Slim_58 (F1), Soul22_63 (F2), Spartacus_59 (F1), Spikelee_64 (F1), Spoonbill_54 (F1), Stap_55 (F1), Starceвич_56 (F1), Strokeseat_53 (F1), SwagPigglett_62 (F1), TChen_57 (F4), Taj_61 (F1), ThetaBob_61 (F4), Tootsieroll_58 (F1), Topiatin_64 (F1), UncleRicky_56 (F1), VRedHorse_57 (F1), Velveteen_52 (F1), Violac_59 (F1), Vivum_60 (F1), Whouxphf_54 (F1), WillSterrel_58 (F1), Yorick_56 (F1), Yoshi_69 (F2), Zapner_70 (F2), Zizzle_61 (F1),

Summary by clusters:

There are 5 clusters represented in this pham: F1, F2, F4, F5, F,

Info for manual annotations of cluster F1:

- Start number 1 was manually annotated 12 times for cluster F1.
- Start number 2 was manually annotated 26 times for cluster F1.
- Start number 3 was manually annotated 141 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 3 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 3 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 3 was manually annotated 1 time for cluster F5.

Gene Information:

Gene: Alexphander_61 Start: 39449, Stop: 39943, Start Num: 3

Candidate Starts for Alexphander_61:

(Start: 1 @39440 has 12 MA's), (Start: 2 @39446 has 26 MA's), (Start: 3 @39449 has 153 MA's), (4, 39473), (8, 39632), (10, 39653), (12, 39713), (15, 39746), (16, 39761), (18, 39830), (20, 39881),

Gene: AlpineSix_62 Start: 41568, Stop: 42062, Start Num: 3

Candidate Starts for AlpineSix_62:

(Start: 1 @41559 has 12 MA's), (Start: 2 @41565 has 26 MA's), (Start: 3 @41568 has 153 MA's), (4, 41592), (8, 41751), (10, 41772), (12, 41832), (15, 41865), (16, 41880), (18, 41949), (20, 42000),

Gene: Avani_65 Start: 39767, Stop: 40261, Start Num: 3

Candidate Starts for Avani_65:

(Start: 3 @39767 has 153 MA's), (4, 39791), (8, 39950), (10, 39971), (12, 40031), (15, 40064), (16, 40079), (18, 40148), (20, 40199), (21, 40250),

Gene: Beakin_59 Start: 38572, Stop: 38982, Start Num: 1

Candidate Starts for Beakin_59:

(Start: 1 @38572 has 12 MA's), (Start: 2 @38578 has 26 MA's), (Start: 3 @38581 has 153 MA's), (4, 38605), (11, 38833), (12, 38842), (13, 38857), (14, 38860), (18, 38950),

Gene: Beanstalk_57 Start: 37768, Stop: 38262, Start Num: 3

Candidate Starts for Beanstalk_57:

(Start: 1 @37759 has 12 MA's), (Start: 2 @37765 has 26 MA's), (Start: 3 @37768 has 153 MA's), (8, 37951), (10, 37972), (12, 38032), (15, 38065), (16, 38080), (18, 38149), (20, 38200),

Gene: BigPhil_53 Start: 35158, Stop: 35655, Start Num: 2

Candidate Starts for BigPhil_53:

(Start: 1 @35152 has 12 MA's), (Start: 2 @35158 has 26 MA's), (Start: 3 @35161 has 153 MA's), (8, 35344), (10, 35365), (12, 35425), (15, 35458), (16, 35473), (18, 35542), (20, 35593),

Gene: Bipolar_56 Start: 39193, Stop: 39603, Start Num: 1

Candidate Starts for Bipolar_56:

(Start: 1 @39193 has 12 MA's), (Start: 2 @39199 has 26 MA's), (Start: 3 @39202 has 153 MA's), (4, 39226), (11, 39454), (12, 39463), (13, 39478), (14, 39481), (18, 39571),

Gene: Blarby_69 Start: 40862, Stop: 41356, Start Num: 3

Candidate Starts for Blarby_69:

(Start: 3 @40862 has 153 MA's), (4, 40886), (6, 40925), (8, 41045), (9, 41060), (10, 41066), (12, 41126), (15, 41159), (16, 41174), (17, 41186), (18, 41243), (20, 41294),

Gene: Blexus_55 Start: 39416, Stop: 39913, Start Num: 2

Candidate Starts for Blexus_55:

(Start: 1 @39410 has 12 MA's), (Start: 2 @39416 has 26 MA's), (Start: 3 @39419 has 153 MA's), (8, 39602), (10, 39623), (12, 39683), (15, 39716), (16, 39731), (18, 39800), (20, 39851),

Gene: BlueCrab_57 Start: 39724, Stop: 40221, Start Num: 2

Candidate Starts for BlueCrab_57:

(Start: 1 @39718 has 12 MA's), (Start: 2 @39724 has 26 MA's), (Start: 3 @39727 has 153 MA's), (8, 39910), (10, 39931), (12, 39991), (15, 40024), (16, 40039), (18, 40108), (20, 40159),

Gene: BobaPhett_61 Start: 41669, Stop: 42172, Start Num: 1

Candidate Starts for BobaPhett_61:

(Start: 1 @41669 has 12 MA's), (Start: 2 @41675 has 26 MA's), (Start: 3 @41678 has 153 MA's), (4, 41702), (8, 41861), (10, 41882), (12, 41942), (15, 41975), (16, 41990), (18, 42059), (20, 42110),

Gene: BodEinwohner17_57 Start: 38489, Stop: 38983, Start Num: 3

Candidate Starts for BodEinwohner17_57:

(Start: 1 @38480 has 12 MA's), (Start: 2 @38486 has 26 MA's), (Start: 3 @38489 has 153 MA's), (8, 38672), (9, 38687), (10, 38693), (12, 38753), (16, 38801), (17, 38813), (18, 38870), (20, 38921),

Gene: Boomer_62 Start: 41344, Stop: 41847, Start Num: 1

Candidate Starts for Boomer_62:

(Start: 1 @41344 has 12 MA's), (Start: 2 @41350 has 26 MA's), (Start: 3 @41353 has 153 MA's), (8, 41536), (10, 41557), (12, 41617), (15, 41650), (16, 41665), (19, 41743), (20, 41785),

Gene: Brocalys_52 Start: 35863, Stop: 36357, Start Num: 3

Candidate Starts for Brocalys_52:

(Start: 1 @35854 has 12 MA's), (Start: 2 @35860 has 26 MA's), (Start: 3 @35863 has 153 MA's), (4, 35887), (8, 36046), (10, 36067), (12, 36127), (15, 36160), (16, 36175), (18, 36244), (20, 36295),

Gene: Brookers_54 Start: 38112, Stop: 38606, Start Num: 3

Candidate Starts for Brookers_54:

(Start: 1 @38103 has 12 MA's), (Start: 2 @38109 has 26 MA's), (Start: 3 @38112 has 153 MA's), (8, 38295), (10, 38316), (12, 38376), (15, 38409), (16, 38424), (18, 38493), (20, 38544),

Gene: Burwell21_55 Start: 38961, Stop: 39455, Start Num: 3

Candidate Starts for Burwell21_55:

(Start: 1 @38952 has 12 MA's), (Start: 2 @38958 has 26 MA's), (Start: 3 @38961 has 153 MA's), (4, 38985), (8, 39144), (10, 39165), (12, 39225), (15, 39258), (16, 39273), (18, 39342), (20, 39393),

Gene: BuzzLyseyear_63 Start: 40382, Stop: 40879, Start Num: 2

Candidate Starts for BuzzLyseyear_63:

(Start: 1 @40376 has 12 MA's), (Start: 2 @40382 has 26 MA's), (Start: 3 @40385 has 153 MA's), (8, 40568), (9, 40583), (10, 40589), (12, 40649), (15, 40682), (16, 40697), (18, 40766), (20, 40817),

Gene: ByChance_49 Start: 34652, Stop: 35146, Start Num: 3

Candidate Starts for ByChance_49:

(Start: 1 @34643 has 12 MA's), (Start: 2 @34649 has 26 MA's), (Start: 3 @34652 has 153 MA's), (8, 34835), (10, 34856), (12, 34916), (15, 34949), (16, 34964), (18, 35033), (20, 35084),

Gene: Byougenkin_55 Start: 38728, Stop: 39222, Start Num: 3

Candidate Starts for Byougenkin_55:

(Start: 3 @38728 has 153 MA's), (8, 38911), (10, 38932), (12, 38992), (15, 39025), (16, 39040), (19, 39118), (20, 39160),

Gene: Cabrinians_58 Start: 39039, Stop: 39533, Start Num: 3

Candidate Starts for Cabrinians_58:

(Start: 1 @39030 has 12 MA's), (Start: 2 @39036 has 26 MA's), (Start: 3 @39039 has 153 MA's), (4, 39063), (8, 39222), (10, 39243), (12, 39303), (15, 39336), (16, 39351), (18, 39420), (20, 39471),

Gene: CaptainTrips_54 Start: 38535, Stop: 39029, Start Num: 3

Candidate Starts for CaptainTrips_54:

(Start: 1 @38526 has 12 MA's), (Start: 2 @38532 has 26 MA's), (Start: 3 @38535 has 153 MA's), (4, 38559), (8, 38718), (9, 38733), (10, 38739), (12, 38799), (15, 38832), (16, 38847), (18, 38916), (20, 38967),

Gene: Cerasum_53 Start: 35176, Stop: 35673, Start Num: 2

Candidate Starts for Cerasum_53:

(Start: 1 @35170 has 12 MA's), (Start: 2 @35176 has 26 MA's), (Start: 3 @35179 has 153 MA's), (8, 35362), (10, 35383), (12, 35443), (15, 35476), (16, 35491), (18, 35560), (20, 35611),

Gene: Che8_62 Start: 41668, Stop: 42162, Start Num: 3

Candidate Starts for Che8_62:

(Start: 3 @41668 has 153 MA's), (8, 41851), (10, 41872), (12, 41932), (15, 41965), (16, 41980), (18, 42049), (20, 42100),

Gene: Che9d_65 Start: 38750, Stop: 39244, Start Num: 3

Candidate Starts for Che9d_65:

(Start: 3 @38750 has 153 MA's), (4, 38774), (6, 38813), (7, 38906), (8, 38933), (9, 38948), (10, 38954), (12, 39014), (16, 39062), (17, 39074), (19, 39140), (20, 39182),

Gene: Cheesepuff_63 Start: 40792, Stop: 41286, Start Num: 3

Candidate Starts for Cheesepuff_63:

(Start: 3 @40792 has 153 MA's), (4, 40816), (6, 40855), (7, 40948), (8, 40975), (9, 40990), (10, 40996), (12, 41056), (16, 41104), (17, 41116), (19, 41182), (20, 41224),

Gene: Chuckly_60 Start: 39681, Stop: 40175, Start Num: 3

Candidate Starts for Chuckly_60:

(Start: 1 @39672 has 12 MA's), (Start: 2 @39678 has 26 MA's), (Start: 3 @39681 has 153 MA's), (4, 39705), (8, 39864), (10, 39885), (12, 39945), (15, 39978), (16, 39993), (18, 40062), (20, 40113),

Gene: Clifton_52 Start: 36214, Stop: 36708, Start Num: 3

Candidate Starts for Clifton_52:

(Start: 1 @36205 has 12 MA's), (Start: 2 @36211 has 26 MA's), (Start: 3 @36214 has 153 MA's), (4, 36238), (8, 36397), (10, 36418), (12, 36478), (15, 36511), (16, 36526), (18, 36595), (20, 36646),

Gene: Coco12_56 Start: 39236, Stop: 39730, Start Num: 3

Candidate Starts for Coco12_56:

(Start: 1 @39227 has 12 MA's), (Start: 2 @39233 has 26 MA's), (Start: 3 @39236 has 153 MA's), (8, 39419), (10, 39440), (12, 39500), (15, 39533), (16, 39548), (18, 39617), (20, 39668),

Gene: Corium_54 Start: 38078, Stop: 38572, Start Num: 3

Candidate Starts for Corium_54:

(Start: 1 @38069 has 12 MA's), (Start: 2 @38075 has 26 MA's), (Start: 3 @38078 has 153 MA's), (4, 38102), (7, 38234), (8, 38261), (10, 38282), (12, 38342), (15, 38375), (16, 38390), (18, 38459), (20, 38510),

Gene: Cornie_52 Start: 37254, Stop: 37748, Start Num: 3

Candidate Starts for Cornie_52:

(Start: 3 @37254 has 153 MA's), (4, 37278), (6, 37317), (7, 37410), (8, 37437), (9, 37452), (10, 37458), (12, 37518), (16, 37566), (17, 37578), (19, 37644), (20, 37686),

Gene: Cornucopia_59 Start: 39695, Stop: 40189, Start Num: 3

Candidate Starts for Cornucopia_59:

(Start: 3 @39695 has 153 MA's), (4, 39719), (8, 39878), (10, 39899), (12, 39959), (15, 39992), (16, 40007), (18, 40076), (20, 40127),

Gene: Crumble_52 Start: 34975, Stop: 35469, Start Num: 3

Candidate Starts for Crumble_52:

(Start: 1 @34966 has 12 MA's), (Start: 2 @34972 has 26 MA's), (Start: 3 @34975 has 153 MA's), (4, 34999), (8, 35158), (10, 35179), (12, 35239), (15, 35272), (16, 35287), (18, 35356), (20, 35407),

Gene: DRBy19_60 Start: 40139, Stop: 40633, Start Num: 3

Candidate Starts for DRBy19_60:

(Start: 1 @40130 has 12 MA's), (Start: 2 @40136 has 26 MA's), (Start: 3 @40139 has 153 MA's), (8, 40322), (10, 40343), (12, 40403), (15, 40436), (16, 40451), (18, 40520), (20, 40571),

Gene: DaWorst_58 Start: 39440, Stop: 39934, Start Num: 3

Candidate Starts for DaWorst_58:

(Start: 1 @39431 has 12 MA's), (Start: 2 @39437 has 26 MA's), (Start: 3 @39440 has 153 MA's), (4, 39464), (8, 39623), (10, 39644), (12, 39704), (15, 39737), (16, 39752), (18, 39821), (20, 39872),

Gene: DaddyRickover_56 Start: 39169, Stop: 39672, Start Num: 1

Candidate Starts for DaddyRickover_56:

(Start: 1 @39169 has 12 MA's), (Start: 2 @39175 has 26 MA's), (Start: 3 @39178 has 153 MA's), (8, 39361), (10, 39382), (12, 39442), (15, 39475), (16, 39490), (18, 39559), (20, 39610),

Gene: Daenerys_51 Start: 37294, Stop: 37788, Start Num: 3

Candidate Starts for Daenerys_51:

(Start: 1 @37285 has 12 MA's), (Start: 2 @37291 has 26 MA's), (Start: 3 @37294 has 153 MA's), (8, 37477), (9, 37492), (10, 37498), (12, 37558), (16, 37606), (17, 37618), (18, 37675), (20, 37726),

Gene: Dante_58 Start: 38963, Stop: 39457, Start Num: 3

Candidate Starts for Dante_58:

(Start: 1 @38954 has 12 MA's), (Start: 2 @38960 has 26 MA's), (Start: 3 @38963 has 153 MA's), (4, 38987), (8, 39146), (10, 39167), (12, 39227), (15, 39260), (16, 39275), (18, 39344), (20, 39395),

Gene: DeadP_63 Start: 41612, Stop: 42103, Start Num: 2

Candidate Starts for DeadP_63:

(Start: 1 @41606 has 12 MA's), (Start: 2 @41612 has 26 MA's), (Start: 3 @41615 has 153 MA's), (4, 41639), (8, 41792), (9, 41807), (10, 41813), (12, 41873), (15, 41906), (16, 41921), (18, 41990), (20, 42041),

Gene: Deb65_52 Start: 37263, Stop: 37757, Start Num: 3

Candidate Starts for Deb65_52:

(Start: 1 @37254 has 12 MA's), (Start: 2 @37260 has 26 MA's), (Start: 3 @37263 has 153 MA's), (8, 37446), (9, 37461), (10, 37467), (12, 37527), (16, 37575), (17, 37587), (18, 37644), (20, 37695),

Gene: Demsculpinboyz_67 Start: 38751, Stop: 39245, Start Num: 3

Candidate Starts for Demsculpinboyz_67:

(Start: 3 @38751 has 153 MA's), (7, 38907), (8, 38934), (9, 38949), (10, 38955), (12, 39015), (16, 39063), (17, 39075), (19, 39141), (20, 39183),

Gene: DillTech15_54 Start: 37628, Stop: 38122, Start Num: 3

Candidate Starts for DillTech15_54:

(Start: 1 @37619 has 12 MA's), (Start: 2 @37625 has 26 MA's), (Start: 3 @37628 has 153 MA's), (7, 37784), (8, 37811), (10, 37832), (12, 37892), (15, 37925), (16, 37940), (18, 38009), (20, 38060),

Gene: DirtMcgirt_56 Start: 37700, Stop: 38197, Start Num: 2

Candidate Starts for DirtMcgirt_56:

(Start: 1 @37694 has 12 MA's), (Start: 2 @37700 has 26 MA's), (Start: 3 @37703 has 153 MA's), (8, 37886), (10, 37907), (12, 37967), (15, 38000), (16, 38015), (18, 38084), (20, 38135),

Gene: DoRead_59 Start: 38163, Stop: 38657, Start Num: 3

Candidate Starts for DoRead_59:

(Start: 3 @38163 has 153 MA's), (4, 38187), (6, 38226), (7, 38319), (8, 38346), (9, 38361), (10, 38367), (12, 38427), (16, 38475), (17, 38487), (19, 38553), (20, 38595),

Gene: Doomphist_57 Start: 40139, Stop: 40633, Start Num: 3

Candidate Starts for Doomphist_57:

(Start: 1 @40130 has 12 MA's), (Start: 2 @40136 has 26 MA's), (Start: 3 @40139 has 153 MA's), (8, 40322), (9, 40337), (10, 40343), (12, 40403), (16, 40451), (17, 40463), (18, 40520), (20, 40571),

Gene: Dorothy_55 Start: 38358, Stop: 38852, Start Num: 3

Candidate Starts for Dorothy_55:

(Start: 1 @38349 has 12 MA's), (Start: 2 @38355 has 26 MA's), (Start: 3 @38358 has 153 MA's), (8, 38541), (9, 38556), (10, 38562), (12, 38622), (16, 38670), (17, 38682), (18, 38739), (20, 38790),

Gene: DosHalletts_59 Start: 40494, Stop: 40988, Start Num: 3

Candidate Starts for DosHalletts_59:

(Start: 1 @40485 has 12 MA's), (Start: 2 @40491 has 26 MA's), (Start: 3 @40494 has 153 MA's), (8, 40677), (10, 40698), (12, 40758), (15, 40791), (16, 40806), (18, 40875), (20, 40926),

Gene: DotProduct_52 Start: 37748, Stop: 38251, Start Num: 1

Candidate Starts for DotProduct_52:

(Start: 1 @37748 has 12 MA's), (Start: 2 @37754 has 26 MA's), (Start: 3 @37757 has 153 MA's), (8, 37940), (10, 37961), (12, 38021), (15, 38054), (16, 38069), (18, 38138), (20, 38189),

Gene: Doug_59 Start: 39703, Stop: 40200, Start Num: 2

Candidate Starts for Doug_59:

(Start: 1 @39697 has 12 MA's), (Start: 2 @39703 has 26 MA's), (Start: 3 @39706 has 153 MA's), (4, 39730), (8, 39889), (10, 39910), (12, 39970), (15, 40003), (16, 40018), (18, 40087), (20, 40138),

Gene: Drago_55 Start: 37706, Stop: 38200, Start Num: 3

Candidate Starts for Drago_55:

(Start: 1 @37697 has 12 MA's), (Start: 2 @37703 has 26 MA's), (Start: 3 @37706 has 153 MA's), (8, 37889), (10, 37910), (12, 37970), (15, 38003), (16, 38018), (18, 38087), (20, 38138),

Gene: Eish_61 Start: 39955, Stop: 40449, Start Num: 3

Candidate Starts for Eish_61:

(Start: 1 @39946 has 12 MA's), (Start: 2 @39952 has 26 MA's), (Start: 3 @39955 has 153 MA's), (8, 40138), (10, 40159), (12, 40219), (15, 40252), (16, 40267), (18, 40336), (20, 40387),

Gene: EleanorGeorge_58 Start: 39822, Stop: 40316, Start Num: 3
Candidate Starts for EleanorGeorge_58:
(Start: 3 @39822 has 153 MA's), (8, 40005), (10, 40026), (12, 40086), (15, 40119), (16, 40134), (18, 40203), (20, 40254),

Gene: EmiMonkey_55 Start: 40660, Stop: 41163, Start Num: 1
Candidate Starts for EmiMonkey_55:
(Start: 1 @40660 has 12 MA's), (Start: 2 @40666 has 26 MA's), (Start: 3 @40669 has 153 MA's), (4, 40693), (8, 40852), (10, 40873), (12, 40933), (15, 40966), (16, 40981), (18, 41050), (20, 41101),

Gene: Emmaloid_58 Start: 39765, Stop: 40259, Start Num: 3
Candidate Starts for Emmaloid_58:
(Start: 1 @39756 has 12 MA's), (Start: 2 @39762 has 26 MA's), (Start: 3 @39765 has 153 MA's), (4, 39789), (8, 39948), (10, 39969), (12, 40029), (15, 40062), (16, 40077), (18, 40146), (20, 40197),

Gene: Empress_55 Start: 38705, Stop: 39202, Start Num: 2
Candidate Starts for Empress_55:
(Start: 1 @38699 has 12 MA's), (Start: 2 @38705 has 26 MA's), (Start: 3 @38708 has 153 MA's), (8, 38891), (9, 38906), (10, 38912), (12, 38972), (16, 39020), (17, 39032), (18, 39089), (20, 39140),

Gene: Enby_58 Start: 37979, Stop: 38476, Start Num: 2
Candidate Starts for Enby_58:
(Start: 1 @37973 has 12 MA's), (Start: 2 @37979 has 26 MA's), (Start: 3 @37982 has 153 MA's), (8, 38165), (9, 38180), (10, 38186), (12, 38246), (15, 38279), (16, 38294), (18, 38363), (20, 38414),

Gene: Eradicator_50 Start: 37235, Stop: 37729, Start Num: 3
Candidate Starts for Eradicator_50:
(Start: 1 @37226 has 12 MA's), (Start: 2 @37232 has 26 MA's), (Start: 3 @37235 has 153 MA's), (8, 37418), (9, 37433), (10, 37439), (12, 37499), (15, 37532), (16, 37547), (18, 37616), (20, 37667),

Gene: Estave1_60 Start: 40159, Stop: 40653, Start Num: 3
Candidate Starts for Estave1_60:
(Start: 1 @40150 has 12 MA's), (Start: 2 @40156 has 26 MA's), (Start: 3 @40159 has 153 MA's), (8, 40342), (10, 40363), (12, 40423), (15, 40456), (16, 40471), (18, 40540), (20, 40591),

Gene: Fancypants_59 Start: 39664, Stop: 40167, Start Num: 1
Candidate Starts for Fancypants_59:
(Start: 1 @39664 has 12 MA's), (Start: 2 @39670 has 26 MA's), (Start: 3 @39673 has 153 MA's), (4, 39697), (8, 39856), (10, 39877), (12, 39937), (15, 39970), (16, 39985), (18, 40054), (20, 40105),

Gene: Fastidio_57 Start: 37775, Stop: 38269, Start Num: 3
Candidate Starts for Fastidio_57:
(Start: 1 @37766 has 12 MA's), (Start: 2 @37772 has 26 MA's), (Start: 3 @37775 has 153 MA's), (7, 37931), (8, 37958), (10, 37979), (12, 38039), (15, 38072), (16, 38087), (18, 38156), (20, 38207),

Gene: Firehouse51_58 Start: 42554, Stop: 43051, Start Num: 2
Candidate Starts for Firehouse51_58:
(Start: 1 @42548 has 12 MA's), (Start: 2 @42554 has 26 MA's), (Start: 3 @42557 has 153 MA's), (8, 42740), (10, 42761), (12, 42821), (15, 42854), (16, 42869), (18, 42938), (20, 42989),

Gene: FreddyB_58 Start: 37887, Stop: 38381, Start Num: 3
Candidate Starts for FreddyB_58:

(Start: 1 @37878 has 12 MA's), (Start: 2 @37884 has 26 MA's), (Start: 3 @37887 has 153 MA's), (4, 37911), (8, 38070), (10, 38091), (12, 38151), (15, 38184), (16, 38199), (18, 38268), (20, 38319),

Gene: GUmbie_55 Start: 38453, Stop: 38956, Start Num: 1

Candidate Starts for GUmbie_55:

(Start: 1 @38453 has 12 MA's), (Start: 2 @38459 has 26 MA's), (Start: 3 @38462 has 153 MA's), (8, 38645), (9, 38660), (10, 38666), (12, 38726), (15, 38759), (16, 38774), (18, 38843), (20, 38894),

Gene: Galactic_56 Start: 38928, Stop: 39422, Start Num: 3

Candidate Starts for Galactic_56:

(Start: 1 @38919 has 12 MA's), (Start: 2 @38925 has 26 MA's), (Start: 3 @38928 has 153 MA's), (4, 38952), (8, 39111), (10, 39132), (12, 39192), (15, 39225), (16, 39240), (18, 39309), (20, 39360),

Gene: Gandalph_60 Start: 39284, Stop: 39778, Start Num: 3

Candidate Starts for Gandalph_60:

(Start: 3 @39284 has 153 MA's), (8, 39467), (10, 39488), (12, 39548), (15, 39581), (16, 39596), (18, 39665), (20, 39716),

Gene: Geralt_52 Start: 37262, Stop: 37756, Start Num: 3

Candidate Starts for Geralt_52:

(Start: 1 @37253 has 12 MA's), (Start: 2 @37259 has 26 MA's), (Start: 3 @37262 has 153 MA's), (8, 37445), (9, 37460), (10, 37466), (12, 37526), (16, 37574), (17, 37586), (18, 37643), (20, 37694),

Gene: GigiOuiOui_53 Start: 37902, Stop: 38396, Start Num: 3

Candidate Starts for GigiOuiOui_53:

(Start: 1 @37893 has 12 MA's), (Start: 2 @37899 has 26 MA's), (Start: 3 @37902 has 153 MA's), (4, 37926), (8, 38085), (10, 38106), (12, 38166), (15, 38199), (16, 38214), (18, 38283), (20, 38334),

Gene: Girr_55 Start: 38769, Stop: 39263, Start Num: 3

Candidate Starts for Girr_55:

(Start: 1 @38760 has 12 MA's), (Start: 2 @38766 has 26 MA's), (Start: 3 @38769 has 153 MA's), (4, 38793), (8, 38952), (10, 38973), (11, 39024), (12, 39033), (15, 39066), (16, 39081), (18, 39150), (20, 39201),

Gene: Gorge_61 Start: 40404, Stop: 40898, Start Num: 3

Candidate Starts for Gorge_61:

(Start: 1 @40395 has 12 MA's), (Start: 2 @40401 has 26 MA's), (Start: 3 @40404 has 153 MA's), (4, 40428), (8, 40587), (10, 40608), (12, 40668), (15, 40701), (16, 40716), (18, 40785), (20, 40836),

Gene: Grimmer_67 Start: 40555, Stop: 41058, Start Num: 1

Candidate Starts for Grimmer_67:

(Start: 1 @40555 has 12 MA's), (Start: 2 @40561 has 26 MA's), (Start: 3 @40564 has 153 MA's), (8, 40747), (10, 40768), (12, 40828), (15, 40861), (16, 40876), (18, 40945), (20, 40996),

Gene: Guppsters_58 Start: 38592, Stop: 39086, Start Num: 3

Candidate Starts for Guppsters_58:

(Start: 1 @38583 has 12 MA's), (Start: 2 @38589 has 26 MA's), (Start: 3 @38592 has 153 MA's), (8, 38775), (9, 38790), (10, 38796), (12, 38856), (15, 38889), (16, 38904), (18, 38973), (20, 39024),

Gene: Hades_58 Start: 39857, Stop: 40354, Start Num: 2

Candidate Starts for Hades_58:

(Start: 1 @39851 has 12 MA's), (Start: 2 @39857 has 26 MA's), (Start: 3 @39860 has 153 MA's), (4, 39884), (8, 40043), (9, 40058), (10, 40064), (12, 40124), (15, 40157), (16, 40172), (18, 40241), (20,

40292),

Gene: Harley_60 Start: 39823, Stop: 40317, Start Num: 3

Candidate Starts for Harley_60:

(Start: 3 @39823 has 153 MA's), (8, 40006), (10, 40027), (12, 40087), (15, 40120), (16, 40135), (18, 40204), (20, 40255),

Gene: Hegedechwinu_57 Start: 38071, Stop: 38568, Start Num: 2

Candidate Starts for Hegedechwinu_57:

(Start: 1 @38065 has 12 MA's), (Start: 2 @38071 has 26 MA's), (Start: 3 @38074 has 153 MA's), (8, 38257), (9, 38272), (10, 38278), (12, 38338), (15, 38371), (16, 38386), (18, 38455), (20, 38506),

Gene: Hlubikazi_53 Start: 37080, Stop: 37574, Start Num: 3

Candidate Starts for Hlubikazi_53:

(Start: 1 @37071 has 12 MA's), (Start: 2 @37077 has 26 MA's), (Start: 3 @37080 has 153 MA's), (4, 37104), (8, 37263), (10, 37284), (12, 37344), (15, 37377), (16, 37392), (18, 37461), (20, 37512),

Gene: IMpilo_53 Start: 36915, Stop: 37412, Start Num: 2

Candidate Starts for IMpilo_53:

(Start: 1 @36909 has 12 MA's), (Start: 2 @36915 has 26 MA's), (Start: 3 @36918 has 153 MA's), (4, 36942), (8, 37101), (10, 37122), (12, 37182), (15, 37215), (16, 37230), (19, 37308), (20, 37350),

Gene: IbOuu_58 Start: 39439, Stop: 39933, Start Num: 3

Candidate Starts for IbOuu_58:

(Start: 1 @39430 has 12 MA's), (Start: 2 @39436 has 26 MA's), (Start: 3 @39439 has 153 MA's), (8, 39622), (9, 39637), (10, 39643), (12, 39703), (15, 39736), (16, 39751), (18, 39820), (20, 39871),

Gene: Ibhubesi_57 Start: 39052, Stop: 39546, Start Num: 3

Candidate Starts for Ibhubesi_57:

(Start: 1 @39043 has 12 MA's), (Start: 2 @39049 has 26 MA's), (Start: 3 @39052 has 153 MA's), (4, 39076), (8, 39235), (10, 39256), (12, 39316), (15, 39349), (16, 39364), (18, 39433), (20, 39484),

Gene: Inventum_52 Start: 38556, Stop: 39050, Start Num: 3

Candidate Starts for Inventum_52:

(Start: 1 @38547 has 12 MA's), (Start: 2 @38553 has 26 MA's), (Start: 3 @38556 has 153 MA's), (8, 38739), (10, 38760), (12, 38820), (16, 38868), (17, 38880), (18, 38937), (20, 38988),

Gene: IrishSherpFalk_58 Start: 40717, Stop: 41211, Start Num: 3

Candidate Starts for IrishSherpFalk_58:

(Start: 1 @40708 has 12 MA's), (Start: 2 @40714 has 26 MA's), (Start: 3 @40717 has 153 MA's), (8, 40900), (10, 40921), (12, 40981), (15, 41014), (16, 41029), (20, 41149),

Gene: Jabbawokkie_71 Start: 40782, Stop: 41276, Start Num: 3

Candidate Starts for Jabbawokkie_71:

(Start: 3 @40782 has 153 MA's), (4, 40806), (6, 40845), (8, 40965), (9, 40980), (10, 40986), (12, 41046), (15, 41079), (16, 41094), (17, 41106), (18, 41163), (20, 41214),

Gene: JalFarm20_70 Start: 42971, Stop: 43465, Start Num: 3

Candidate Starts for JalFarm20_70:

(Start: 3 @42971 has 153 MA's), (8, 43154), (10, 43175), (12, 43235), (15, 43268), (16, 43283), (18, 43352), (20, 43403),

Gene: James_61 Start: 40529, Stop: 41023, Start Num: 3

Candidate Starts for James_61:

(Start: 1 @40520 has 12 MA's), (Start: 2 @40526 has 26 MA's), (Start: 3 @40529 has 153 MA's), (8, 40712), (10, 40733), (12, 40793), (15, 40826), (16, 40841), (18, 40910), (20, 40961),

Gene: Jant_61 Start: 40549, Stop: 41043, Start Num: 3

Candidate Starts for Jant_61:

(Start: 1 @40540 has 12 MA's), (Start: 2 @40546 has 26 MA's), (Start: 3 @40549 has 153 MA's), (8, 40732), (9, 40747), (10, 40753), (12, 40813), (15, 40846), (16, 40861), (19, 40939), (20, 40981),

Gene: Jacob_57 Start: 39004, Stop: 39501, Start Num: 2

Candidate Starts for Jacob_57:

(Start: 1 @38998 has 12 MA's), (Start: 2 @39004 has 26 MA's), (Start: 3 @39007 has 153 MA's), (4, 39031), (8, 39190), (10, 39211), (12, 39271), (15, 39304), (16, 39319), (18, 39388), (20, 39439),

Gene: Jennelsea_54 Start: 37689, Stop: 38186, Start Num: 2

Candidate Starts for Jennelsea_54:

(Start: 1 @37683 has 12 MA's), (Start: 2 @37689 has 26 MA's), (Start: 3 @37692 has 153 MA's), (4, 37716), (8, 37875), (10, 37896), (12, 37956), (15, 37989), (16, 38004), (18, 38073), (20, 38124),

Gene: Jinglebell_62 Start: 41567, Stop: 42061, Start Num: 3

Candidate Starts for Jinglebell_62:

(Start: 1 @41558 has 12 MA's), (Start: 2 @41564 has 26 MA's), (Start: 3 @41567 has 153 MA's), (4, 41591), (8, 41750), (10, 41771), (12, 41831), (15, 41864), (16, 41879), (18, 41948), (20, 41999),

Gene: Job42_59 Start: 40944, Stop: 41441, Start Num: 2

Candidate Starts for Job42_59:

(Start: 1 @40938 has 12 MA's), (Start: 2 @40944 has 26 MA's), (Start: 3 @40947 has 153 MA's), (8, 41130), (10, 41151), (12, 41211), (15, 41244), (16, 41259), (18, 41328), (20, 41379),

Gene: JoeyJr_52 Start: 37462, Stop: 37956, Start Num: 3

Candidate Starts for JoeyJr_52:

(Start: 1 @37453 has 12 MA's), (Start: 2 @37459 has 26 MA's), (Start: 3 @37462 has 153 MA's), (8, 37645), (9, 37660), (10, 37666), (12, 37726), (16, 37774), (17, 37786), (18, 37843), (20, 37894),

Gene: Juice456_58 Start: 40927, Stop: 41421, Start Num: 3

Candidate Starts for Juice456_58:

(Start: 3 @40927 has 153 MA's), (8, 41110), (10, 41131), (12, 41191), (15, 41224), (16, 41239), (18, 41308), (20, 41359),

Gene: Juniper1_55 Start: 38863, Stop: 39357, Start Num: 3

Candidate Starts for Juniper1_55:

(Start: 1 @38854 has 12 MA's), (Start: 2 @38860 has 26 MA's), (Start: 3 @38863 has 153 MA's), (4, 38887), (8, 39046), (10, 39067), (11, 39118), (12, 39127), (15, 39160), (16, 39175), (18, 39244), (19, 39253), (20, 39295),

Gene: Karhdo_54 Start: 38552, Stop: 39046, Start Num: 3

Candidate Starts for Karhdo_54:

(Start: 1 @38543 has 12 MA's), (Start: 2 @38549 has 26 MA's), (Start: 3 @38552 has 153 MA's), (4, 38576), (8, 38735), (10, 38756), (12, 38816), (15, 38849), (16, 38864), (18, 38933), (20, 38984),

Gene: Kenuha5_55 Start: 37976, Stop: 38380, Start Num: 1

Candidate Starts for Kenuha5_55:

(Start: 1 @37976 has 12 MA's), (Start: 2 @37982 has 26 MA's), (Start: 3 @37985 has 153 MA's), (11, 38231), (12, 38240), (13, 38255), (14, 38258), (18, 38348),

Gene: Kersh_59 Start: 41305, Stop: 41799, Start Num: 3

Candidate Starts for Kersh_59:

(Start: 1 @41296 has 12 MA's), (Start: 2 @41302 has 26 MA's), (Start: 3 @41305 has 153 MA's), (4, 41329), (7, 41461), (8, 41488), (10, 41509), (12, 41569), (15, 41602), (16, 41617), (18, 41686), (20, 41737),

Gene: Kimberlium_59 Start: 40626, Stop: 41120, Start Num: 3

Candidate Starts for Kimberlium_59:

(Start: 1 @40617 has 12 MA's), (Start: 2 @40623 has 26 MA's), (Start: 3 @40626 has 153 MA's), (4, 40650), (8, 40809), (10, 40830), (12, 40890), (15, 40923), (16, 40938), (18, 41007), (20, 41058),

Gene: KingJulian_57 Start: 38078, Stop: 38572, Start Num: 3

Candidate Starts for KingJulian_57:

(Start: 1 @38069 has 12 MA's), (Start: 2 @38075 has 26 MA's), (Start: 3 @38078 has 153 MA's), (4, 38102), (7, 38234), (8, 38261), (10, 38282), (12, 38342), (15, 38375), (16, 38390), (18, 38459), (20, 38510),

Gene: KingMidas_56 Start: 39124, Stop: 39618, Start Num: 3

Candidate Starts for KingMidas_56:

(Start: 1 @39115 has 12 MA's), (Start: 2 @39121 has 26 MA's), (Start: 3 @39124 has 153 MA's), (8, 39307), (9, 39322), (10, 39328), (12, 39388), (16, 39436), (17, 39448), (18, 39505), (20, 39556),

Gene: Kingsley_54 Start: 37969, Stop: 38463, Start Num: 3

Candidate Starts for Kingsley_54:

(Start: 1 @37960 has 12 MA's), (Start: 2 @37966 has 26 MA's), (Start: 3 @37969 has 153 MA's), (8, 38152), (10, 38173), (12, 38233), (15, 38266), (16, 38281), (18, 38350), (20, 38401),

Gene: Koella_51 Start: 34937, Stop: 35431, Start Num: 3

Candidate Starts for Koella_51:

(Start: 1 @34928 has 12 MA's), (Start: 2 @34934 has 26 MA's), (Start: 3 @34937 has 153 MA's), (4, 34961), (8, 35120), (10, 35141), (12, 35201), (15, 35234), (16, 35249), (18, 35318), (20, 35369),

Gene: Krakatau_55 Start: 38665, Stop: 39075, Start Num: 1

Candidate Starts for Krakatau_55:

(Start: 1 @38665 has 12 MA's), (Start: 2 @38671 has 26 MA's), (Start: 3 @38674 has 153 MA's), (4, 38698), (11, 38926), (12, 38935), (13, 38950), (14, 38953), (18, 39043),

Gene: KristaRAM_60 Start: 41509, Stop: 42003, Start Num: 3

Candidate Starts for KristaRAM_60:

(Start: 1 @41500 has 12 MA's), (Start: 2 @41506 has 26 MA's), (Start: 3 @41509 has 153 MA's), (4, 41533), (8, 41692), (10, 41713), (12, 41773), (15, 41806), (16, 41821), (18, 41890), (20, 41941),

Gene: LastJedi_51 Start: 36257, Stop: 36751, Start Num: 3

Candidate Starts for LastJedi_51:

(Start: 1 @36248 has 12 MA's), (Start: 2 @36254 has 26 MA's), (Start: 3 @36257 has 153 MA's), (4, 36281), (8, 36440), (10, 36461), (12, 36521), (15, 36554), (16, 36569), (18, 36638), (20, 36689),

Gene: Latretium_59 Start: 39583, Stop: 40077, Start Num: 3

Candidate Starts for Latretium_59:

(Start: 1 @39574 has 12 MA's), (Start: 2 @39580 has 26 MA's), (Start: 3 @39583 has 153 MA's), (4, 39607), (8, 39766), (10, 39787), (12, 39847), (15, 39880), (16, 39895), (18, 39964), (20, 40015),

Gene: Leozinho_56 Start: 38342, Stop: 38836, Start Num: 3

Candidate Starts for Leozinho_56:

(Start: 1 @38333 has 12 MA's), (Start: 2 @38339 has 26 MA's), (Start: 3 @38342 has 153 MA's), (8, 38525), (10, 38546), (12, 38606), (15, 38639), (16, 38654), (18, 38723), (20, 38774),

Gene: Leperchaun_49 Start: 36692, Stop: 37186, Start Num: 3

Candidate Starts for Leperchaun_49:

(Start: 1 @36683 has 12 MA's), (Start: 2 @36689 has 26 MA's), (Start: 3 @36692 has 153 MA's), (8, 36875), (9, 36890), (10, 36896), (12, 36956), (16, 37004), (17, 37016), (18, 37073), (20, 37124),

Gene: LilMoolah_55 Start: 38452, Stop: 38946, Start Num: 3

Candidate Starts for LilMoolah_55:

(Start: 1 @38443 has 12 MA's), (Start: 2 @38449 has 26 MA's), (Start: 3 @38452 has 153 MA's), (8, 38635), (10, 38656), (12, 38716), (15, 38749), (16, 38764), (18, 38833), (20, 38884),

Gene: LittleShirley_56 Start: 39496, Stop: 39990, Start Num: 3

Candidate Starts for LittleShirley_56:

(Start: 1 @39487 has 12 MA's), (Start: 2 @39493 has 26 MA's), (Start: 3 @39496 has 153 MA's), (8, 39679), (10, 39700), (12, 39760), (15, 39793), (16, 39808), (18, 39877), (20, 39928),

Gene: Lizziana_63 Start: 40010, Stop: 40504, Start Num: 3

Candidate Starts for Lizziana_63:

(Start: 1 @40001 has 12 MA's), (Start: 2 @40007 has 26 MA's), (Start: 3 @40010 has 153 MA's), (4, 40034), (8, 40193), (10, 40214), (12, 40274), (15, 40307), (16, 40322), (18, 40391), (20, 40442),

Gene: Llama_62 Start: 41421, Stop: 41915, Start Num: 3

Candidate Starts for Llama_62:

(Start: 1 @41412 has 12 MA's), (Start: 2 @41418 has 26 MA's), (Start: 3 @41421 has 153 MA's), (4, 41445), (8, 41604), (10, 41625), (12, 41685), (15, 41718), (16, 41733), (18, 41802), (20, 41853),

Gene: Llij_53 Start: 37860, Stop: 38354, Start Num: 3

Candidate Starts for Llij_53:

(Start: 1 @37851 has 12 MA's), (Start: 2 @37857 has 26 MA's), (Start: 3 @37860 has 153 MA's), (8, 38043), (10, 38064), (12, 38124), (15, 38157), (16, 38172), (18, 38241), (20, 38292),

Gene: Lorde_57 Start: 37147, Stop: 37641, Start Num: 3

Candidate Starts for Lorde_57:

(Start: 1 @37138 has 12 MA's), (Start: 2 @37144 has 26 MA's), (Start: 3 @37147 has 153 MA's), (8, 37330), (10, 37351), (12, 37411), (15, 37444), (16, 37459), (18, 37528), (20, 37579),

Gene: Lucia_57 Start: 38004, Stop: 38498, Start Num: 3

Candidate Starts for Lucia_57:

(Start: 1 @37995 has 12 MA's), (Start: 2 @38001 has 26 MA's), (Start: 3 @38004 has 153 MA's), (8, 38187), (10, 38208), (12, 38268), (15, 38301), (16, 38316), (18, 38385), (20, 38436),

Gene: LunaBlu_59 Start: 39587, Stop: 40081, Start Num: 3

Candidate Starts for LunaBlu_59:

(Start: 1 @39578 has 12 MA's), (Start: 2 @39584 has 26 MA's), (Start: 3 @39587 has 153 MA's), (4, 39611), (8, 39770), (10, 39791), (12, 39851), (15, 39884), (16, 39899), (18, 39968), (20, 40019),

Gene: LunaStella_55 Start: 38222, Stop: 38716, Start Num: 3

Candidate Starts for LunaStella_55:

(Start: 3 @38222 has 153 MA's), (8, 38405), (10, 38426), (12, 38486), (15, 38519), (16, 38534), (18, 38603), (20, 38654),

Gene: MadMen_55 Start: 38784, Stop: 39278, Start Num: 3

Candidate Starts for MadMen_55:

(Start: 1 @38775 has 12 MA's), (Start: 2 @38781 has 26 MA's), (Start: 3 @38784 has 153 MA's), (4, 38808), (8, 38967), (10, 38988), (12, 39048), (15, 39081), (16, 39096), (18, 39165), (20, 39216),

Gene: Madiba_55 Start: 38033, Stop: 38527, Start Num: 3

Candidate Starts for Madiba_55:

(Start: 1 @38024 has 12 MA's), (Start: 2 @38030 has 26 MA's), (Start: 3 @38033 has 153 MA's), (4, 38057), (8, 38216), (10, 38237), (12, 38297), (15, 38330), (16, 38345), (18, 38414), (20, 38465),

Gene: Mahavrat_55 Start: 38412, Stop: 38906, Start Num: 3

Candidate Starts for Mahavrat_55:

(Start: 1 @38403 has 12 MA's), (Start: 2 @38409 has 26 MA's), (Start: 3 @38412 has 153 MA's), (8, 38595), (10, 38616), (12, 38676), (15, 38709), (16, 38724), (18, 38793), (20, 38844),

Gene: Mandlovu_53 Start: 37019, Stop: 37516, Start Num: 2

Candidate Starts for Mandlovu_53:

(Start: 1 @37013 has 12 MA's), (Start: 2 @37019 has 26 MA's), (Start: 3 @37022 has 153 MA's), (4, 37046), (8, 37205), (10, 37226), (12, 37286), (15, 37319), (16, 37334), (18, 37403), (20, 37454),

Gene: Mantra_53 Start: 37905, Stop: 38399, Start Num: 3

Candidate Starts for Mantra_53:

(Start: 1 @37896 has 12 MA's), (Start: 2 @37902 has 26 MA's), (Start: 3 @37905 has 153 MA's), (4, 37929), (8, 38088), (10, 38109), (12, 38169), (15, 38202), (16, 38217), (18, 38286), (20, 38337),

Gene: Maravista_58 Start: 40459, Stop: 40953, Start Num: 3

Candidate Starts for Maravista_58:

(Start: 1 @40450 has 12 MA's), (Start: 2 @40456 has 26 MA's), (Start: 3 @40459 has 153 MA's), (8, 40642), (10, 40663), (12, 40723), (15, 40756), (16, 40771), (18, 40840), (20, 40891),

Gene: Marker_59 Start: 39127, Stop: 39621, Start Num: 3

Candidate Starts for Marker_59:

(Start: 1 @39118 has 12 MA's), (Start: 2 @39124 has 26 MA's), (Start: 3 @39127 has 153 MA's), (7, 39283), (8, 39310), (10, 39331), (12, 39391), (15, 39424), (16, 39439), (18, 39508), (20, 39559),

Gene: Martik_57 Start: 38963, Stop: 39457, Start Num: 3

Candidate Starts for Martik_57:

(Start: 1 @38954 has 12 MA's), (Start: 2 @38960 has 26 MA's), (Start: 3 @38963 has 153 MA's), (4, 38987), (8, 39146), (10, 39167), (12, 39227), (15, 39260), (16, 39275), (18, 39344), (20, 39395),

Gene: Mattes_61 Start: 40529, Stop: 41023, Start Num: 3

Candidate Starts for Mattes_61:

(Start: 1 @40520 has 12 MA's), (Start: 2 @40526 has 26 MA's), (Start: 3 @40529 has 153 MA's), (4, 40553), (8, 40712), (10, 40733), (12, 40793), (15, 40826), (16, 40841), (18, 40910), (20, 40961),

Gene: Medindi_54 Start: 36747, Stop: 37157, Start Num: 1

Candidate Starts for Medindi_54:

(Start: 1 @36747 has 12 MA's), (Start: 2 @36753 has 26 MA's), (Start: 3 @36756 has 153 MA's), (4, 36780), (11, 37008), (12, 37017), (13, 37032), (14, 37035), (18, 37125),

Gene: Melissauren88_56 Start: 38890, Stop: 39300, Start Num: 1

Candidate Starts for Melissauren88_56:

(Start: 1 @38890 has 12 MA's), (Start: 2 @38896 has 26 MA's), (Start: 3 @38899 has 153 MA's), (4, 38923), (11, 39151), (12, 39160), (13, 39175), (14, 39178), (18, 39268),

Gene: MinionDave_56 Start: 39310, Stop: 39804, Start Num: 3

Candidate Starts for MinionDave_56:

(Start: 1 @39301 has 12 MA's), (Start: 2 @39307 has 26 MA's), (Start: 3 @39310 has 153 MA's), (8, 39493), (9, 39508), (10, 39514), (12, 39574), (15, 39607), (16, 39622), (18, 39691), (20, 39742),

Gene: MisterCuddles_55 Start: 38769, Stop: 39263, Start Num: 3

Candidate Starts for MisterCuddles_55:

(Start: 1 @38760 has 12 MA's), (Start: 2 @38766 has 26 MA's), (Start: 3 @38769 has 153 MA's), (4, 38793), (8, 38952), (10, 38973), (11, 39024), (12, 39033), (15, 39066), (16, 39081), (18, 39150), (20, 39201),

Gene: Modragons_61 Start: 41408, Stop: 41905, Start Num: 2

Candidate Starts for Modragons_61:

(Start: 1 @41402 has 12 MA's), (Start: 2 @41408 has 26 MA's), (Start: 3 @41411 has 153 MA's), (4, 41435), (8, 41594), (10, 41615), (12, 41675), (15, 41708), (16, 41723), (18, 41792), (20, 41843),

Gene: Mova_58 Start: 38537, Stop: 39031, Start Num: 3

Candidate Starts for Mova_58:

(Start: 1 @38528 has 12 MA's), (Start: 2 @38534 has 26 MA's), (Start: 3 @38537 has 153 MA's), (8, 38720), (10, 38741), (12, 38801), (15, 38834), (16, 38849), (18, 38918), (20, 38969),

Gene: Mozy_66 Start: 41544, Stop: 42038, Start Num: 3

Candidate Starts for Mozy_66:

(Start: 1 @41535 has 12 MA's), (Start: 2 @41541 has 26 MA's), (Start: 3 @41544 has 153 MA's), (8, 41727), (9, 41742), (10, 41748), (12, 41808), (16, 41856), (17, 41868), (18, 41925), (19, 41934), (20, 41976),

Gene: Ms6_53 Start: 34621, Stop: 35031, Start Num: 1

Candidate Starts for Ms6_53:

(Start: 1 @34621 has 12 MA's), (Start: 2 @34627 has 26 MA's), (Start: 3 @34630 has 153 MA's), (4, 34654), (11, 34882), (12, 34891), (13, 34906), (14, 34909), (18, 34999),

Gene: MulchExplorer_63 Start: 40625, Stop: 41119, Start Num: 3

Candidate Starts for MulchExplorer_63:

(Start: 1 @40616 has 12 MA's), (Start: 2 @40622 has 26 MA's), (Start: 3 @40625 has 153 MA's), (4, 40649), (8, 40808), (10, 40829), (12, 40889), (15, 40922), (16, 40937), (18, 41006), (20, 41057),

Gene: Mutaforma13_61 Start: 41867, Stop: 42361, Start Num: 3

Candidate Starts for Mutaforma13_61:

(Start: 1 @41858 has 12 MA's), (Start: 2 @41864 has 26 MA's), (Start: 3 @41867 has 153 MA's), (8, 42050), (10, 42071), (12, 42131), (15, 42164), (16, 42179), (18, 42248), (20, 42299),

Gene: Mwanjiwa_63 Start: 39644, Stop: 40138, Start Num: 3

Candidate Starts for Mwanjiwa_63:

(Start: 1 @39635 has 12 MA's), (Start: 2 @39641 has 26 MA's), (Start: 3 @39644 has 153 MA's), (4, 39668), (8, 39827), (10, 39848), (12, 39908), (15, 39941), (16, 39956), (18, 40025), (20, 40076),

Gene: NewHope4_58 Start: 38958, Stop: 39452, Start Num: 3

Candidate Starts for NewHope4_58:

(Start: 1 @38949 has 12 MA's), (Start: 2 @38955 has 26 MA's), (Start: 3 @38958 has 153 MA's), (4, 38982), (8, 39141), (10, 39162), (12, 39222), (15, 39255), (16, 39270), (18, 39339), (20, 39390),

Gene: Nimbo_51 Start: 37265, Stop: 37759, Start Num: 3

Candidate Starts for Nimbo_51:

(Start: 1 @37256 has 12 MA's), (Start: 2 @37262 has 26 MA's), (Start: 3 @37265 has 153 MA's), (8, 37448), (9, 37463), (10, 37469), (12, 37529), (16, 37577), (17, 37589), (18, 37646), (20, 37697),

Gene: Nitzel_55 Start: 38315, Stop: 38812, Start Num: 2

Candidate Starts for Nitzel_55:

(Start: 1 @38309 has 12 MA's), (Start: 2 @38315 has 26 MA's), (Start: 3 @38318 has 153 MA's), (5, 38351), (8, 38501), (10, 38522), (12, 38582), (15, 38615), (16, 38630), (18, 38699), (20, 38750),

Gene: Nivrat_53 Start: 38325, Stop: 38819, Start Num: 3

Candidate Starts for Nivrat_53:

(Start: 1 @38316 has 12 MA's), (Start: 2 @38322 has 26 MA's), (Start: 3 @38325 has 153 MA's), (8, 38508), (10, 38529), (12, 38589), (15, 38622), (16, 38637), (18, 38706), (20, 38757),

Gene: NormanBulbieJr_57 Start: 38947, Stop: 39444, Start Num: 2

Candidate Starts for NormanBulbieJr_57:

(Start: 1 @38941 has 12 MA's), (Start: 2 @38947 has 26 MA's), (Start: 3 @38950 has 153 MA's), (4, 38974), (8, 39133), (10, 39154), (12, 39214), (15, 39247), (16, 39262), (18, 39331), (20, 39382),

Gene: Ochi17_60 Start: 41009, Stop: 41512, Start Num: 1

Candidate Starts for Ochi17_60:

(Start: 1 @41009 has 12 MA's), (Start: 2 @41015 has 26 MA's), (Start: 3 @41018 has 153 MA's), (4, 41042), (8, 41201), (10, 41222), (12, 41282), (15, 41315), (16, 41330), (18, 41399), (20, 41450),

Gene: OfUltron_62 Start: 41567, Stop: 42061, Start Num: 3

Candidate Starts for OfUltron_62:

(Start: 1 @41558 has 12 MA's), (Start: 2 @41564 has 26 MA's), (Start: 3 @41567 has 153 MA's), (4, 41591), (8, 41750), (10, 41771), (12, 41831), (15, 41864), (16, 41879), (18, 41948), (20, 41999),

Gene: Oksu_61 Start: 41830, Stop: 42324, Start Num: 3

Candidate Starts for Oksu_61:

(Start: 1 @41821 has 12 MA's), (Start: 2 @41827 has 26 MA's), (Start: 3 @41830 has 153 MA's), (4, 41854), (8, 42013), (10, 42034), (12, 42094), (15, 42127), (16, 42142), (18, 42211), (20, 42262),

Gene: OldBen_54 Start: 38875, Stop: 39369, Start Num: 3

Candidate Starts for OldBen_54:

(Start: 1 @38866 has 12 MA's), (Start: 2 @38872 has 26 MA's), (Start: 3 @38875 has 153 MA's), (8, 39058), (10, 39079), (12, 39139), (15, 39172), (16, 39187), (18, 39256), (20, 39307),

Gene: OlympiaSaint_59 Start: 39471, Stop: 39965, Start Num: 3

Candidate Starts for OlympiaSaint_59:

(Start: 1 @39462 has 12 MA's), (Start: 2 @39468 has 26 MA's), (Start: 3 @39471 has 153 MA's), (4, 39495), (8, 39654), (10, 39675), (12, 39735), (15, 39768), (16, 39783), (18, 39852), (20, 39903),

Gene: Ovechkin_56 Start: 39471, Stop: 39965, Start Num: 3

Candidate Starts for Ovechkin_56:

(Start: 1 @39462 has 12 MA's), (Start: 2 @39468 has 26 MA's), (Start: 3 @39471 has 153 MA's), (8, 39654), (10, 39675), (12, 39735), (15, 39768), (16, 39783), (18, 39852), (20, 39903),

Gene: OwlsT2W_57 Start: 39193, Stop: 39687, Start Num: 3

Candidate Starts for OwlsT2W_57:

(Start: 1 @39184 has 12 MA's), (Start: 2 @39190 has 26 MA's), (Start: 3 @39193 has 153 MA's), (4, 39217), (8, 39376), (9, 39391), (10, 39397), (12, 39457), (16, 39505), (17, 39517), (18, 39574), (19, 39583), (20, 39625),

Gene: PHappiness_52 Start: 37238, Stop: 37732, Start Num: 3

Candidate Starts for PHappiness_52:

(Start: 1 @37229 has 12 MA's), (Start: 2 @37235 has 26 MA's), (Start: 3 @37238 has 153 MA's), (8, 37421), (9, 37436), (10, 37442), (12, 37502), (16, 37550), (17, 37562), (18, 37619), (20, 37670),

Gene: PMC_54 Start: 39568, Stop: 40071, Start Num: 1

Candidate Starts for PMC_54:

(Start: 1 @39568 has 12 MA's), (Start: 2 @39574 has 26 MA's), (Start: 3 @39577 has 153 MA's), (8, 39760), (10, 39781), (12, 39841), (15, 39874), (16, 39889), (19, 39967), (20, 40009),

Gene: Pacc40_51 Start: 37312, Stop: 37806, Start Num: 3

Candidate Starts for Pacc40_51:

(Start: 1 @37303 has 12 MA's), (Start: 2 @37309 has 26 MA's), (Start: 3 @37312 has 153 MA's), (8, 37495), (9, 37510), (10, 37516), (12, 37576), (16, 37624), (17, 37636), (18, 37693), (20, 37744),

Gene: PatoPoderoso_54 Start: 38078, Stop: 38572, Start Num: 3

Candidate Starts for PatoPoderoso_54:

(Start: 1 @38069 has 12 MA's), (Start: 2 @38075 has 26 MA's), (Start: 3 @38078 has 153 MA's), (4, 38102), (7, 38234), (8, 38261), (10, 38282), (12, 38342), (15, 38375), (16, 38390), (18, 38459), (20, 38510),

Gene: Peridot_58 Start: 38415, Stop: 38909, Start Num: 3

Candidate Starts for Peridot_58:

(Start: 1 @38406 has 12 MA's), (Start: 2 @38412 has 26 MA's), (Start: 3 @38415 has 153 MA's), (8, 38598), (10, 38619), (12, 38679), (15, 38712), (16, 38727), (18, 38796), (20, 38847),

Gene: Phasih_55 Start: 39382, Stop: 39876, Start Num: 3

Candidate Starts for Phasih_55:

(Start: 3 @39382 has 153 MA's), (8, 39565), (10, 39586), (12, 39646), (15, 39679), (16, 39694), (18, 39763), (20, 39814),

Gene: Phatniss_55 Start: 38955, Stop: 39449, Start Num: 3

Candidate Starts for Phatniss_55:

(Start: 1 @38946 has 12 MA's), (Start: 2 @38952 has 26 MA's), (Start: 3 @38955 has 153 MA's), (8, 39138), (10, 39159), (12, 39219), (15, 39252), (16, 39267), (18, 39336), (20, 39387),

Gene: Philus_60 Start: 40115, Stop: 40609, Start Num: 3

Candidate Starts for Philus_60:

(Start: 1 @40106 has 12 MA's), (Start: 2 @40112 has 26 MA's), (Start: 3 @40115 has 153 MA's), (8, 40298), (10, 40319), (12, 40379), (15, 40412), (16, 40427), (18, 40496), (20, 40547),

Gene: PhlipPhlop_57 Start: 40669, Stop: 41163, Start Num: 3

Candidate Starts for PhlipPhlop_57:

(Start: 1 @40660 has 12 MA's), (Start: 2 @40666 has 26 MA's), (Start: 3 @40669 has 153 MA's), (4, 40693), (8, 40852), (10, 40873), (12, 40933), (15, 40966), (16, 40981), (18, 41050), (20, 41101),

Gene: Pippy_55 Start: 37821, Stop: 38315, Start Num: 3

Candidate Starts for Pippy_55:

(Start: 1 @37812 has 12 MA's), (Start: 2 @37818 has 26 MA's), (Start: 3 @37821 has 153 MA's), (4, 37845), (8, 38004), (10, 38025), (12, 38085), (15, 38118), (16, 38133), (18, 38202), (20, 38253),

Gene: Plumbus_59 Start: 39279, Stop: 39776, Start Num: 2

Candidate Starts for Plumbus_59:

(Start: 1 @39273 has 12 MA's), (Start: 2 @39279 has 26 MA's), (Start: 3 @39282 has 153 MA's), (8, 39465), (10, 39486), (12, 39546), (15, 39579), (16, 39594), (18, 39663), (20, 39714),

Gene: Poenanya_57 Start: 40136, Stop: 40633, Start Num: 2

Candidate Starts for Poenanya_57:

(Start: 1 @40130 has 12 MA's), (Start: 2 @40136 has 26 MA's), (Start: 3 @40139 has 153 MA's), (8, 40322), (9, 40337), (10, 40343), (12, 40403), (16, 40451), (17, 40463), (18, 40520), (20, 40571),

Gene: Polka14_55 Start: 38335, Stop: 38829, Start Num: 3

Candidate Starts for Polka14_55:

(Start: 1 @38326 has 12 MA's), (Start: 2 @38332 has 26 MA's), (Start: 3 @38335 has 153 MA's), (8, 38518), (9, 38533), (10, 38539), (12, 38599), (16, 38647), (17, 38659), (18, 38716), (20, 38767),

Gene: Pollywog_58 Start: 39783, Stop: 40280, Start Num: 2

Candidate Starts for Pollywog_58:

(Start: 1 @39777 has 12 MA's), (Start: 2 @39783 has 26 MA's), (Start: 3 @39786 has 153 MA's), (4, 39810), (8, 39969), (10, 39990), (12, 40050), (15, 40083), (16, 40098), (18, 40167), (20, 40218),

Gene: Polo2Bam_62 Start: 38803, Stop: 39306, Start Num: 1

Candidate Starts for Polo2Bam_62:

(Start: 1 @38803 has 12 MA's), (Start: 2 @38809 has 26 MA's), (Start: 3 @38812 has 153 MA's), (4, 38836), (8, 38995), (10, 39016), (12, 39076), (15, 39109), (16, 39124), (18, 39193), (20, 39244),

Gene: Priscilla_57 Start: 39049, Stop: 39543, Start Num: 3

Candidate Starts for Priscilla_57:

(Start: 1 @39040 has 12 MA's), (Start: 2 @39046 has 26 MA's), (Start: 3 @39049 has 153 MA's), (4, 39073), (8, 39232), (10, 39253), (12, 39313), (15, 39346), (16, 39361), (18, 39430), (20, 39481),

Gene: QuickMath_58 Start: 40849, Stop: 41343, Start Num: 3

Candidate Starts for QuickMath_58:

(Start: 1 @40840 has 12 MA's), (Start: 2 @40846 has 26 MA's), (Start: 3 @40849 has 153 MA's), (4, 40873), (8, 41032), (10, 41053), (12, 41113), (15, 41146), (16, 41161), (18, 41230), (20, 41281),

Gene: Radiance_56 Start: 39074, Stop: 39568, Start Num: 3

Candidate Starts for Radiance_56:

(Start: 1 @39065 has 12 MA's), (Start: 2 @39071 has 26 MA's), (Start: 3 @39074 has 153 MA's), (4, 39098), (8, 39257), (10, 39278), (12, 39338), (15, 39371), (16, 39386), (18, 39455), (20, 39506),

Gene: RedBird_55 Start: 38370, Stop: 38864, Start Num: 3

Candidate Starts for RedBird_55:

(Start: 1 @38361 has 12 MA's), (Start: 2 @38367 has 26 MA's), (Start: 3 @38370 has 153 MA's), (8, 38553), (9, 38568), (10, 38574), (12, 38634), (16, 38682), (17, 38694), (18, 38751), (20, 38802),

Gene: Renaud18_62 Start: 39627, Stop: 40121, Start Num: 3

Candidate Starts for Renaud18_62:

(Start: 1 @39618 has 12 MA's), (Start: 2 @39624 has 26 MA's), (Start: 3 @39627 has 153 MA's), (8, 39810), (10, 39831), (12, 39891), (15, 39924), (16, 39939), (18, 40008), (20, 40059),

Gene: Rialto_63 Start: 41853, Stop: 42347, Start Num: 3

Candidate Starts for Rialto_63:

(Start: 1 @41844 has 12 MA's), (Start: 2 @41850 has 26 MA's), (Start: 3 @41853 has 153 MA's), (4, 41877), (8, 42036), (10, 42057), (12, 42117), (15, 42150), (16, 42165), (18, 42234), (20, 42285),

Gene: Rita_58 Start: 37680, Stop: 38174, Start Num: 3

Candidate Starts for Rita_58:

(Start: 1 @37671 has 12 MA's), (Start: 2 @37677 has 26 MA's), (Start: 3 @37680 has 153 MA's), (4, 37704), (8, 37863), (10, 37884), (12, 37944), (15, 37977), (16, 37992), (18, 38061), (20, 38112),

Gene: RitaG_52 Start: 37583, Stop: 38077, Start Num: 3

Candidate Starts for RitaG_52:

(Start: 1 @37574 has 12 MA's), (Start: 2 @37580 has 26 MA's), (Start: 3 @37583 has 153 MA's), (8, 37766), (9, 37781), (10, 37787), (12, 37847), (16, 37895), (17, 37907), (18, 37964), (20, 38015),

Gene: Rockne_58 Start: 39586, Stop: 40083, Start Num: 2

Candidate Starts for Rockne_58:

(Start: 1 @39580 has 12 MA's), (Start: 2 @39586 has 26 MA's), (Start: 3 @39589 has 153 MA's), (8, 39772), (10, 39793), (12, 39853), (15, 39886), (16, 39901), (19, 39979), (20, 40021),

Gene: RockyHorror_58 Start: 38638, Stop: 39132, Start Num: 3

Candidate Starts for RockyHorror_58:

(Start: 1 @38629 has 12 MA's), (Start: 2 @38635 has 26 MA's), (Start: 3 @38638 has 153 MA's), (7, 38794), (8, 38821), (10, 38842), (12, 38902), (15, 38935), (16, 38950), (18, 39019), (20, 39070),

Gene: Royals2015_60 Start: 38991, Stop: 39485, Start Num: 3

Candidate Starts for Royals2015_60:

(Start: 1 @38982 has 12 MA's), (Start: 2 @38988 has 26 MA's), (Start: 3 @38991 has 153 MA's), (8, 39174), (10, 39195), (12, 39255), (15, 39288), (16, 39303), (18, 39372), (20, 39423),

Gene: Ruby_53 Start: 38770, Stop: 39264, Start Num: 3

Candidate Starts for Ruby_53:

(Start: 1 @38761 has 12 MA's), (Start: 2 @38767 has 26 MA's), (Start: 3 @38770 has 153 MA's), (4, 38794), (8, 38953), (10, 38974), (11, 39025), (12, 39034), (15, 39067), (16, 39082), (18, 39151), (20, 39202),

Gene: SG4_54 Start: 38464, Stop: 38961, Start Num: 2

Candidate Starts for SG4_54:

(Start: 1 @38458 has 12 MA's), (Start: 2 @38464 has 26 MA's), (Start: 3 @38467 has 153 MA's), (8, 38650), (9, 38665), (10, 38671), (12, 38731), (15, 38764), (16, 38779), (18, 38848), (20, 38899),

Gene: Saal_59 Start: 40223, Stop: 40717, Start Num: 3

Candidate Starts for Saal_59:

(Start: 1 @40214 has 12 MA's), (Start: 2 @40220 has 26 MA's), (Start: 3 @40223 has 153 MA's), (4, 40247), (8, 40406), (10, 40427), (12, 40487), (15, 40520), (16, 40535), (18, 40604), (20, 40655),

Gene: Sabbbb_61 Start: 39911, Stop: 40405, Start Num: 3

Candidate Starts for Sabbb_61:

(Start: 1 @39902 has 12 MA's), (Start: 2 @39908 has 26 MA's), (Start: 3 @39911 has 153 MA's), (8, 40094), (10, 40115), (12, 40175), (15, 40208), (16, 40223), (18, 40292), (20, 40343),

Gene: Sarma624_55 Start: 35161, Stop: 35655, Start Num: 3

Candidate Starts for Sarma624_55:

(Start: 1 @35152 has 12 MA's), (Start: 2 @35158 has 26 MA's), (Start: 3 @35161 has 153 MA's), (8, 35344), (10, 35365), (12, 35425), (15, 35458), (16, 35473), (18, 35542), (20, 35593),

Gene: Sassafras_55 Start: 38555, Stop: 39049, Start Num: 3

Candidate Starts for Sassafras_55:

(Start: 1 @38546 has 12 MA's), (Start: 2 @38552 has 26 MA's), (Start: 3 @38555 has 153 MA's), (8, 38738), (10, 38759), (12, 38819), (16, 38867), (17, 38879), (18, 38936), (20, 38987),

Gene: Scottish_55 Start: 38595, Stop: 39089, Start Num: 3

Candidate Starts for Scottish_55:

(Start: 1 @38586 has 12 MA's), (Start: 2 @38592 has 26 MA's), (Start: 3 @38595 has 153 MA's), (8, 38778), (10, 38799), (12, 38859), (15, 38892), (16, 38907), (18, 38976), (20, 39027),

Gene: Seabastian_62 Start: 41568, Stop: 42062, Start Num: 3

Candidate Starts for Seabastian_62:

(Start: 1 @41559 has 12 MA's), (Start: 2 @41565 has 26 MA's), (Start: 3 @41568 has 153 MA's), (4, 41592), (8, 41751), (10, 41772), (12, 41832), (15, 41865), (16, 41880), (18, 41949), (20, 42000),

Gene: Seagreen_57 Start: 38560, Stop: 39054, Start Num: 3

Candidate Starts for Seagreen_57:

(Start: 3 @38560 has 153 MA's), (8, 38743), (10, 38764), (12, 38824), (15, 38857), (16, 38872), (18, 38941), (20, 38992),

Gene: ShiLan_56 Start: 38996, Stop: 39490, Start Num: 3

Candidate Starts for ShiLan_56:

(Start: 1 @38987 has 12 MA's), (Start: 2 @38993 has 26 MA's), (Start: 3 @38996 has 153 MA's), (4, 39020), (8, 39179), (10, 39200), (12, 39260), (15, 39293), (16, 39308), (18, 39377), (20, 39428),

Gene: ShowerHandel_60 Start: 38963, Stop: 39457, Start Num: 3

Candidate Starts for ShowerHandel_60:

(Start: 1 @38954 has 12 MA's), (Start: 2 @38960 has 26 MA's), (Start: 3 @38963 has 153 MA's), (4, 38987), (8, 39146), (10, 39167), (12, 39227), (15, 39260), (16, 39275), (18, 39344), (20, 39395),

Gene: ShroomBoi_59 Start: 39923, Stop: 40417, Start Num: 3

Candidate Starts for ShroomBoi_59:

(Start: 1 @39914 has 12 MA's), (Start: 2 @39920 has 26 MA's), (Start: 3 @39923 has 153 MA's), (4, 39947), (7, 40079), (8, 40106), (10, 40127), (12, 40187), (15, 40220), (16, 40235), (18, 40304), (20, 40355),

Gene: SiSi_55 Start: 38369, Stop: 38863, Start Num: 3

Candidate Starts for SiSi_55:

(Start: 1 @38360 has 12 MA's), (Start: 2 @38366 has 26 MA's), (Start: 3 @38369 has 153 MA's), (4, 38393), (8, 38552), (10, 38573), (12, 38633), (15, 38666), (16, 38681), (18, 38750), (20, 38801),

Gene: SimranZ1_57 Start: 39149, Stop: 39643, Start Num: 3

Candidate Starts for SimranZ1_57:

(Start: 1 @39140 has 12 MA's), (Start: 2 @39146 has 26 MA's), (Start: 3 @39149 has 153 MA's), (8, 39332), (10, 39353), (12, 39413), (15, 39446), (16, 39461), (18, 39530), (20, 39581),

Gene: Slim_58 Start: 39756, Stop: 40250, Start Num: 3

Candidate Starts for Slim_58:

(Start: 1 @39747 has 12 MA's), (Start: 2 @39753 has 26 MA's), (Start: 3 @39756 has 153 MA's), (4, 39780), (8, 39939), (10, 39960), (12, 40020), (15, 40053), (16, 40068), (18, 40137), (20, 40188),

Gene: Soul22_63 Start: 40554, Stop: 41048, Start Num: 3

Candidate Starts for Soul22_63:

(Start: 3 @40554 has 153 MA's), (8, 40737), (10, 40758), (12, 40818), (15, 40851), (16, 40866), (18, 40935), (20, 40986),

Gene: Spartacus_59 Start: 39633, Stop: 40127, Start Num: 3

Candidate Starts for Spartacus_59:

(Start: 1 @39624 has 12 MA's), (Start: 2 @39630 has 26 MA's), (Start: 3 @39633 has 153 MA's), (8, 39816), (10, 39837), (12, 39897), (15, 39930), (16, 39945), (20, 40065),

Gene: Spikelee_64 Start: 41253, Stop: 41747, Start Num: 3

Candidate Starts for Spikelee_64:

(Start: 1 @41244 has 12 MA's), (Start: 2 @41250 has 26 MA's), (Start: 3 @41253 has 153 MA's), (8, 41436), (10, 41457), (12, 41517), (15, 41550), (16, 41565), (18, 41634), (20, 41685),

Gene: Spoonbill_54 Start: 37543, Stop: 38037, Start Num: 3

Candidate Starts for Spoonbill_54:

(Start: 1 @37534 has 12 MA's), (Start: 2 @37540 has 26 MA's), (Start: 3 @37543 has 153 MA's), (8, 37726), (9, 37741), (10, 37747), (12, 37807), (16, 37855), (17, 37867), (18, 37924), (20, 37975),

Gene: Stap_55 Start: 38344, Stop: 38838, Start Num: 3

Candidate Starts for Stap_55:

(Start: 1 @38335 has 12 MA's), (Start: 2 @38341 has 26 MA's), (Start: 3 @38344 has 153 MA's), (8, 38527), (9, 38542), (10, 38548), (12, 38608), (16, 38656), (17, 38668), (18, 38725), (20, 38776),

Gene: Starcevich_56 Start: 38920, Stop: 39414, Start Num: 3

Candidate Starts for Starcevich_56:

(Start: 1 @38911 has 12 MA's), (Start: 2 @38917 has 26 MA's), (Start: 3 @38920 has 153 MA's), (4, 38944), (8, 39103), (10, 39124), (12, 39184), (15, 39217), (16, 39232), (18, 39301), (20, 39352),

Gene: Strokeseat_53 Start: 37079, Stop: 37573, Start Num: 3

Candidate Starts for Strokeseat_53:

(Start: 1 @37070 has 12 MA's), (Start: 2 @37076 has 26 MA's), (Start: 3 @37079 has 153 MA's), (4, 37103), (8, 37262), (10, 37283), (12, 37343), (15, 37376), (16, 37391), (18, 37460), (20, 37511),

Gene: SwagPiggett_62 Start: 41271, Stop: 41765, Start Num: 3

Candidate Starts for SwagPiggett_62:

(Start: 1 @41262 has 12 MA's), (Start: 2 @41268 has 26 MA's), (Start: 3 @41271 has 153 MA's), (4, 41295), (8, 41454), (10, 41475), (12, 41535), (15, 41568), (16, 41583), (18, 41652), (20, 41703),

Gene: TChen_57 Start: 40173, Stop: 40667, Start Num: 3

Candidate Starts for TChen_57:

(Start: 3 @40173 has 153 MA's), (8, 40356), (10, 40377), (12, 40437), (15, 40470), (16, 40485), (18, 40554), (20, 40605),

Gene: Taj_61 Start: 40729, Stop: 41217, Start Num: 3

Candidate Starts for Taj_61:

(Start: 1 @40720 has 12 MA's), (Start: 2 @40726 has 26 MA's), (Start: 3 @40729 has 153 MA's), (4, 40753), (8, 40906), (9, 40921), (10, 40927), (12, 40987), (15, 41020), (16, 41035), (18, 41104), (20, 41155),

Gene: ThetaBob_61 Start: 40247, Stop: 40741, Start Num: 3

Candidate Starts for ThetaBob_61:

(Start: 3 @40247 has 153 MA's), (8, 40430), (10, 40451), (12, 40511), (15, 40544), (16, 40559), (18, 40628), (20, 40679),

Gene: Tootsieroll_58 Start: 38292, Stop: 38786, Start Num: 3

Candidate Starts for Tootsieroll_58:

(Start: 1 @38283 has 12 MA's), (Start: 2 @38289 has 26 MA's), (Start: 3 @38292 has 153 MA's), (8, 38475), (10, 38496), (12, 38556), (15, 38589), (16, 38604), (18, 38673), (20, 38724),

Gene: Topiatin_64 Start: 41412, Stop: 41906, Start Num: 3

Candidate Starts for Topiatin_64:

(Start: 3 @41412 has 153 MA's), (8, 41595), (10, 41616), (12, 41676), (15, 41709), (16, 41724), (17, 41736), (19, 41802), (20, 41844),

Gene: Totinger_56 Start: 38219, Stop: 38716, Start Num: 2

Candidate Starts for Totinger_56:

(Start: 1 @38213 has 12 MA's), (Start: 2 @38219 has 26 MA's), (Start: 3 @38222 has 153 MA's), (8, 38405), (10, 38426), (12, 38486), (15, 38519), (16, 38534), (18, 38603), (20, 38654),

Gene: UncleRicky_56 Start: 39203, Stop: 39697, Start Num: 3

Candidate Starts for UncleRicky_56:

(Start: 1 @39194 has 12 MA's), (Start: 2 @39200 has 26 MA's), (Start: 3 @39203 has 153 MA's), (8, 39386), (10, 39407), (12, 39467), (15, 39500), (16, 39515), (18, 39584), (20, 39635),

Gene: VRedHorse_57 Start: 38279, Stop: 38773, Start Num: 3

Candidate Starts for VRedHorse_57:

(Start: 1 @38270 has 12 MA's), (Start: 2 @38276 has 26 MA's), (Start: 3 @38279 has 153 MA's), (8, 38462), (10, 38483), (12, 38543), (15, 38576), (16, 38591), (18, 38660), (20, 38711),

Gene: Velveteen_52 Start: 35161, Stop: 35655, Start Num: 3

Candidate Starts for Velveteen_52:

(Start: 1 @35152 has 12 MA's), (Start: 2 @35158 has 26 MA's), (Start: 3 @35161 has 153 MA's), (8, 35344), (10, 35365), (12, 35425), (15, 35458), (16, 35473), (18, 35542), (20, 35593),

Gene: Violac_59 Start: 40349, Stop: 40843, Start Num: 3

Candidate Starts for Violac_59:

(Start: 1 @40340 has 12 MA's), (Start: 2 @40346 has 26 MA's), (Start: 3 @40349 has 153 MA's), (4, 40373), (8, 40532), (10, 40553), (12, 40613), (15, 40646), (16, 40661), (18, 40730), (20, 40781),

Gene: Vivum_60 Start: 39281, Stop: 39775, Start Num: 3

Candidate Starts for Vivum_60:

(Start: 1 @39272 has 12 MA's), (Start: 2 @39278 has 26 MA's), (Start: 3 @39281 has 153 MA's), (4, 39305), (8, 39464), (10, 39485), (12, 39545), (15, 39578), (16, 39593), (18, 39662), (20, 39713),

Gene: Whouxphf_54 Start: 38875, Stop: 39369, Start Num: 3

Candidate Starts for Whouxphf_54:

(Start: 1 @38866 has 12 MA's), (Start: 2 @38872 has 26 MA's), (Start: 3 @38875 has 153 MA's), (8, 39058), (10, 39079), (12, 39139), (15, 39172), (16, 39187), (18, 39256), (20, 39307),

Gene: WillSterrel_58 Start: 40750, Stop: 41244, Start Num: 3

Candidate Starts for WillSterrel_58:

(Start: 1 @40741 has 12 MA's), (Start: 2 @40747 has 26 MA's), (Start: 3 @40750 has 153 MA's), (8, 40933), (10, 40954), (12, 41014), (15, 41047), (16, 41062), (20, 41182),

Gene: Yorick_56 Start: 39337, Stop: 39831, Start Num: 3

Candidate Starts for Yorick_56:

(Start: 1 @39328 has 12 MA's), (Start: 2 @39334 has 26 MA's), (Start: 3 @39337 has 153 MA's), (4, 39361), (8, 39520), (10, 39541), (12, 39601), (15, 39634), (16, 39649), (18, 39718), (20, 39769),

Gene: Yoshi_69 Start: 40511, Stop: 41005, Start Num: 3

Candidate Starts for Yoshi_69:

(Start: 3 @40511 has 153 MA's), (8, 40694), (10, 40715), (12, 40775), (15, 40808), (16, 40823), (18, 40892), (20, 40943),

Gene: Zapner_70 Start: 40876, Stop: 41370, Start Num: 3

Candidate Starts for Zapner_70:

(Start: 3 @40876 has 153 MA's), (4, 40900), (6, 40939), (8, 41059), (9, 41074), (10, 41080), (12, 41140), (15, 41173), (16, 41188), (17, 41200), (18, 41257), (20, 41308),

Gene: Zerg_57 Start: 38744, Stop: 39241, Start Num: 2

Candidate Starts for Zerg_57:

(Start: 1 @38738 has 12 MA's), (Start: 2 @38744 has 26 MA's), (Start: 3 @38747 has 153 MA's), (7, 38903), (8, 38930), (10, 38951), (12, 39011), (15, 39044), (16, 39059), (18, 39128), (20, 39179),

Gene: Zizzle_61 Start: 40590, Stop: 41084, Start Num: 3

Candidate Starts for Zizzle_61:

(Start: 1 @40581 has 12 MA's), (Start: 2 @40587 has 26 MA's), (Start: 3 @40590 has 153 MA's), (4, 40614), (8, 40773), (10, 40794), (12, 40854), (15, 40887), (16, 40902), (18, 40971), (20, 41022),