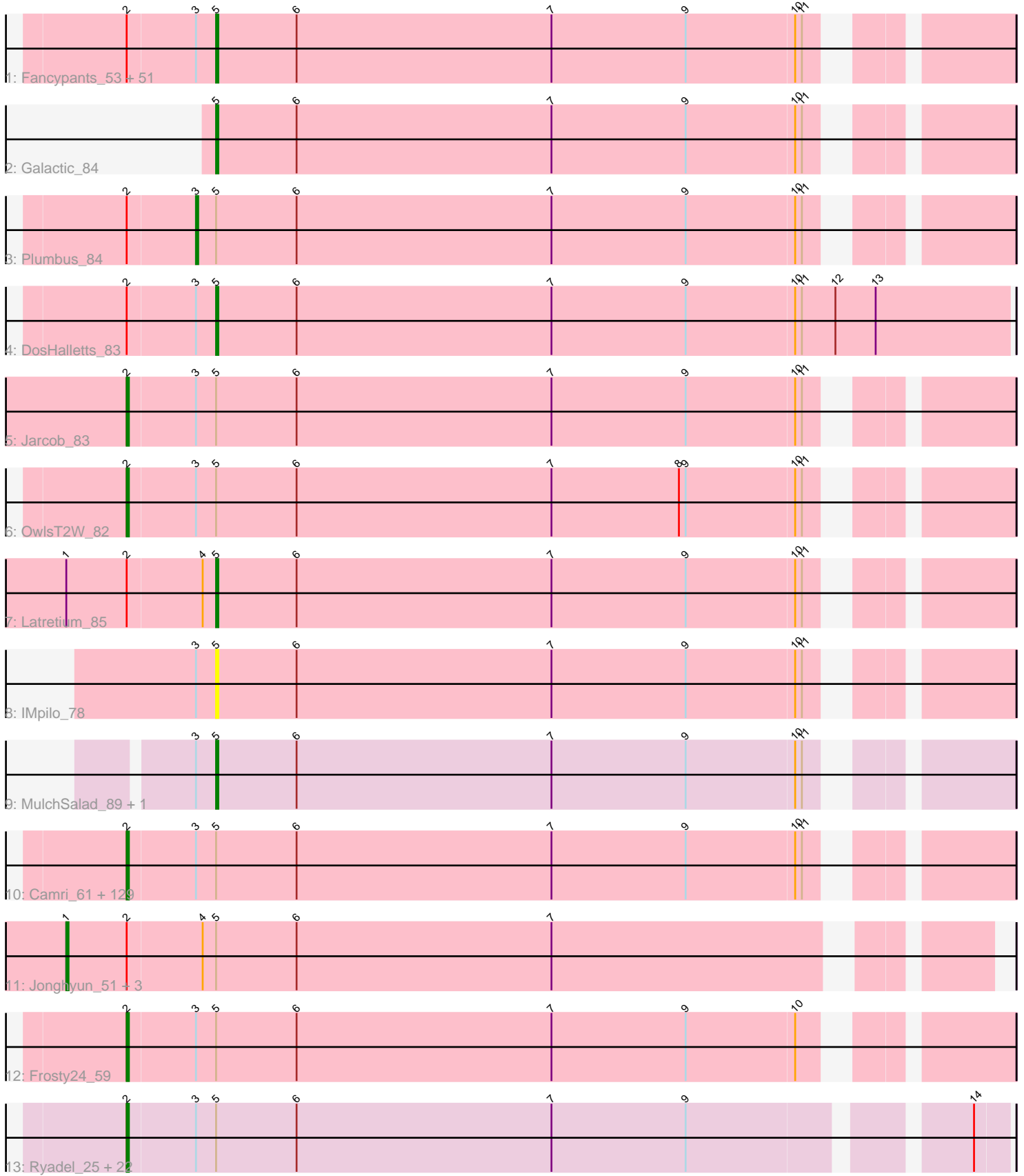


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 296247 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296247 has 219 members, 18 are drafts.

Phages represented in each track:

- Track 1 : Fancypants_53, MulchExplorer_82, MadMen_81, PatoPoderoso_76, BuzzLyseyear_83, QuickMath_82, DirtMcgirt_82, AlpineSix_84, Beanstalk_82, ThetaBob_82, Priscilla_78, AuntGwenStacy_51, Crumble_78, XFactor_78, Medindi_87, Peridot_87, Seagreen_82, Blexus_78, Quico_89, Lucia_83, Oksu_84, Misha28_60, RockyHorror_81, BobaPhett_83, DeadP_84, Corium_76, Doomslug_96, Lizziana_85, Che8_89, Mattes_81, Spoonbill_79, IbOuu_78, Fastidio_85, Enzomatic_94, Scitech_53, Philus_86, MilanaBonita_73, Aloeri_63, Nichirin_78, Vivum_83, Violac_85, DRBy19_87, PMC_80, Jant_90, SeaLumen_90, Phasih_76, KingJulian_82, Faiyaz_51, TootsiePop_60, Polo2Bam_93, Modragons_82, LittleShirley_89
- Track 2 : Galactic_84
- Track 3 : Plumbus_84
- Track 4 : DosHalletts_83
- Track 5 : Jarcob_83
- Track 6 : OwlsT2W_82
- Track 7 : Latretium_85
- Track 8 : IMpilo_78
- Track 9 : MulchSalad_89, Yorick_76
- Track 10 : Camri_61, Eradicator_74, Totinger_85, Awesomesauce_62, Kersh_85, LouisV14_60, PhesterPhotato_87, Llama_84, Byougenkin_80, Phalconet_80, Yoshi_101, Mandlovu_78, BlueCrab_81, Avrafan_57, GUmbie_74, LunaBlu_87, Sizemore_59, Kasen3_59, Hlubikazi_78, Seabastian_85, Periodt_54, VRedHorse_82, Flathead_83, CaptainTrips_86, Taj_90, Zombie_57, ECartman_53, Phish_55, ShiLan_83, Nivrat_82, Beakin_76, Hope_57, Kareem_59, Boomer_87, Typha_50, BPs_58, BruceB_58, Piper2020_63, Burwell21_78, Argie_66, FreddyB_91, Llij_79, Brujita_51, Clifton_76, James_84, Ardmore_69, Lorde_83, Phatniss_80, Taptic_68, Ogopogo_52, Island3_51, OlympiaSaint_83, JorRay_58, PopTart_75, DoRead_83, Hilltopfarm_93, Saal_79, DocMcStuffins_62, Slim_85, PR_69, Alexphander_80, Phreak_53, Cabrinians_80, Enby_84, Eish_86, Jinglebell_84, Zerg_78, ChickenDinner_62, DMoney_57, Darionha_55, DLane_84, Crespo_55, Moonbeam_81, Remy19_56, Pacc40_75, Pippy_78, Harley_82, Leozinho_81, ShaboiShabazz_55, Rockne_84, UncleRicky_82, Girafales_89, ZoMa_57, Cepens_68, LastJedi_73, Emmaloid_85, Akhila_74, Tweety_84, D12_68, Starcevich_83, Phanphagia_82, Koella_71, LilMoolah_84, Jane_59, NormanBulbieJr_76, Rialto_87, Peeb_54, SwagPigglett_84, Hades_83, Whouxphf_78, OfUltron_85, NewHope4_87, CassieYates_56, Brocalys_73, Sabbb_85, Chewbacca_59, SassyB_75, TomBrady_56, MinionDave_82,

Gandalph_81, Sweets_58, Florinda_92, Tortoise12_56, OctaviousRex_57, Cedasite_56, Dante_81, Wee_89, Gorge_82, AzulaCat_58, Strokeseat_78, Kimberlium_84, Rita_90, ZenTime222_54, Juice456_80, Cornucopia_83, Ochi17_83, GigiOuiOui_77, Drago_80, Royals2015_88, Mova_82

- Track 11 : Jonghyun_51, Gideon_47, Aroostook_53, Chance64_53

- Track 12 : Frosty24_59

- Track 13 : Ryadel_25, Vorrps_23, Ashwin_24, Zebo_22, Murai_23, Familton_23, Mori_23, Wildflower_23, NiebruSaylor_23, MadKillah_24, Idergollasper_22, FoulBall_22, SchoolBus_22, Winget_23, Shida_23, Schuy_24, JangDynasty_22, Alkhayr_23, Vagabond_23, Catdawg_22, Firecracker_23, Krili_23, Blessica_23

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

The start number called the most often in the published annotations is 2, it was called in 155 of the 201 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akhila_74, Alexphander_80, Alkhayr_23, Ardmore_69, Argie_66, Ashwin_24, Avrafan_57, Awesomesauce_62, AzulaCat_58, BPs_58, Beakin_76, Blessica_23, BlueCrab_81, Boomer_87, Brocalys_73, BruceB_58, Brujita_51, Burwell21_78, Byougenkin_80, Cabrinians_80, Camri_61, CaptainTrips_86, CassieYates_56, Catdawg_22, Cedasite_56, Cepens_68, Chewbacca_59, ChickenDinner_62, Clifton_76, Cornucopia_83, Crespo_55, D12_68, DLane_84, DMoney_57, Dante_81, Darionha_55, DoRead_83, DocMcStuffins_62, Drago_80, ECartman_53, Eish_86, Emmaloid_85, Enby_84, Eradicator_74, Familton_23, Firecracker_23, Flathead_83, Florinda_92, FoulBall_22, FreddyB_91, Frosty24_59, GUmble_74, Gandalph_81, GigiOuiOui_77, Girafales_89, Gorge_82, Hades_83, Harley_82, Hilltopfarm_93, Hlubikazi_78, Hope_57, Idergollasper_22, Island3_51, James_84, Jane_59, JangDynasty_22, Jarcob_83, Jinglebell_84, JorRay_58, Juice456_80, Kareem_59, Kasen3_59, Kersh_85, Kimberlium_84, Koella_71, Krili_23, LastJedi_73, Leozinho_81, LilMoolah_84, Llama_84, Llij_79, Lorde_83, LouisV14_60, LunaBlu_87, MadKillah_24, Mandlovu_78, MinionDave_82, Moonbeam_81, Mori_23, Mova_82, Murai_23, NewHope4_87, NiebruSaylor_23, Nivrat_82, NormanBulbieJr_76, Ochi17_83, OctaviousRex_57, OfUltron_85, Ogopogo_52, OlympiaSaint_83, OwlsT2W_82, PR_69, Pacc40_75, Peeb_54, Periodt_54, Phalconet_80, Phanphagia_82, Phatniss_80, PhesterPotato_87, Phish_55, Phreak_53, Piper2020_63, Pippy_78, PopTart_75, Remy19_56, Rialto_87, Rita_90, Rockne_84, Royals2015_88, Ryadel_25, Saal_79, Sabbb_85, SassyB_75, SchoolBus_22, Schuy_24, Sebastian_85, ShaboShabazz_55, ShiLan_83, Shida_23, Sizemore_59, Slim_85, Starcevich_83, Strokeseat_78, SwagPigglett_84, Sweets_58, Taj_90, Taptic_68, TomBrady_56, Tortoise12_56, Totinger_85, Tweety_84, Typha_50, UncleRicky_82, VRedHorse_82, Vagabond_23, Vorrps_23, Wee_89, Whouxphf_78, Wildflower_23, Winget_23, Yoshi_101, Zebo_22, ZenTime222_54, Zerg_78, ZoMa_57, Zombie_57,

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

- Aloeri_63, AlpineSix_84, Aroostook_53, AuntGwenStacy_51, Beanstalk_82, Blexus_78, BobaPhett_83, BuzzLyseyear_83, Chance64_53, Che8_89, Corium_76, Crumble_78, DRBy19_87, DeadP_84, DirtMcGirt_82, Doomslug_96, DosHalletts_83, Enzomatic_94, Faiyaz_51, Fancypants_53, Fastidio_85, Gideon_47, IbOuu_78,

Jant_90, Jonghyun_51, KingJulian_82, Latretium_85, LittleShirley_89, Lizziana_85, Lucia_83, MadMen_81, Mattes_81, Medindi_87, MilanaBonita_73, Misha28_60, Modragons_82, MulchExplorer_82, Nichirin_78, Oksu_84, PMC_80, PatoPoderoso_76, Peridot_87, Phasih_76, Philus_86, Plumbus_84, Polo2Bam_93, Priscilla_78, QuickMath_82, Quico_89, RockyHorror_81, Scitech_53, SeaLumen_90, Seagreen_82, Spoonbill_79, ThetaBob_82, TootsiePop_60, Violac_85, Vivum_83, XFactor_78,

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

- Galactic_84, IMPilo_78, MulchSalad_89, Yorick_76,

Summary by start number:

Start 1:

- Found in 5 of 219 (2.3%) of genes in pham
- Manual Annotations of this start: 4 of 201
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Aroostook_53 (G1), Chance64_53 (G1), Gideon_47 (G1), Jonghyun_51 (G1),

Start 2:

- Found in 215 of 219 (98.2%) of genes in pham
- Manual Annotations of this start: 155 of 201
- Called 72.6% of time when present
- Phage (with cluster) where this start called: Akhila_74 (F1), Alexphander_80 (F1), Alkhayr_23 (O), Ardmore_69 (F1), Argie_66 (W), Ashwin_24 (O), Avrafan_57 (G1), Awesomesauce_62 (F1), AzulaCat_58 (G1), BPs_58 (G1), Beakin_76 (F1), Blessica_23 (O), BlueCrab_81 (F1), Boomer_87 (F1), Brocalys_73 (F1), BruceB_58 (G1), Brujita_51 (I1), Burwell21_78 (F1), Byougenkin_80 (F1), Cabrinians_80 (F1), Camri_61 (G1), CaptainTrips_86 (F1), CassieYates_56 (G1), Catdawg_22 (O), Cedasite_56 (G1), Cepens_68 (W), Chewbacca_59 (N), ChickenDinner_62 (F1), Clifton_76 (F1), Cornucopia_83 (F1), Crespo_55 (G1), D12_68 (W), DLane_84 (F1), DMoney_57 (G1), Dante_81 (F1), Darionha_55 (G1), DoRead_83 (F1), DocMcStuffs_62 (F1), Drago_80 (F1), ECartman_53 (G1), Eish_86 (F1), Emmaloid_85 (F1), Enby_84 (F1), Eradicator_74 (F1), Familton_23 (O), Firecracker_23 (O), Flathead_83 (F1), Florinda_92 (F1), FoulBall_22 (O), FreddyB_91 (F1), Frosty24_59 (G1), GUmbe_74 (F1), Gandalph_81 (F1), GigiOuiOui_77 (F1), Girafales_89 (F1), Gorge_82 (F1), Hades_83 (F1), Harley_82 (F1), Hilltopfarm_93 (Y), Hlubikazi_78 (F1), Hope_57 (G1), Idergollasper_22 (O), Island3_51 (I1), James_84 (F1), Jane_59 (G1), JangDynasty_22 (O), Jacob_83 (F1), Jinglebell_84 (F1), JorRay_58 (G1), Juice456_80 (F1), Kareem_59 (G1), Kasen3_59 (G1), Kersh_85 (F1), Kimberlium_84 (F1), Koella_71 (F1), Kriili_23 (O), LastJedi_73 (F1), Leozinho_81 (F1), LilMoolah_84 (F1), Llama_84 (F1), Llij_79 (F1), Lorde_83 (F1), LouisV14_60 (G1), LunaBlu_87 (F1), MadKillah_24 (O), Mandlovu_78 (F1), MinionDave_82 (F1), Moonbeam_81 (F1), Mori_23 (O), Mova_82 (F1), Murai_23 (O), NewHope4_87 (F1), NiebruSaylor_23 (O), Nivrat_82 (F1), NormanBulbieJr_76 (F1), Ochi17_83 (F1), OctaviousRex_57 (G1), OfUltron_85 (F1), Ogopogo_52 (F1), OlympiaSaint_83 (F1), OwlsT2W_82 (F1), PR_69 (W), Pacc40_75 (F1), Peeb_54 (G1), Periodt_54 (G1), Phalconet_80 (F1), Phanphagia_82 (F1), Phatniss_80 (F1), PhesterPhotato_87 (F1), Phish_55 (G1), Phreak_53 (G1), Piper2020_63 (F1), Pippy_78 (F1), PopTart_75 (F1), Remy19_56 (G1), Rialto_87 (F1), Rita_90 (F1), Rockne_84 (F1), Royals2015_88 (F1), Ryadel_25 (O), Saal_79 (F1), Sabbb_85 (F1), SassyB_75 (F1), SchoolBus_22 (O), Schuy_24 (O), Sebastian_85 (F1),

ShaboiShabazz_55 (G1), ShiLan_83 (F1), Shida_23 (O), Sizemore_59 (G1), Slim_85 (F1), Starcevich_83 (F1), Strokeseat_78 (F1), SwagPigglett_84 (F1), Sweets_58 (G1), Taj_90 (F1), Taptic_68 (W), TomBrady_56 (G1), Tortoise12_56 (N), Totinger_85 (F1), Tweety_84 (F1), Typha_50 (Y), UncleRicky_82 (F1), VRedHorse_82 (F1), Vagabond_23 (O), Vorrps_23 (O), Wee_89 (F1), Whouxphf_78 (F1), Wildflower_23 (O), Winget_23 (O), Yoshi_101 (F2), Zebo_22 (O), ZenTime222_54 (T), Zerg_78 (F1), ZoMa_57 (G1), Zombie_57 (G1),

Start 3:

- Found in 213 of 219 (97.3%) of genes in pham
- Manual Annotations of this start: 1 of 201
- Called 0.5% of time when present
- Phage (with cluster) where this start called: Plumbus_84 (F1),

Start 5:

- Found in 219 of 219 (100.0%) of genes in pham
- Manual Annotations of this start: 41 of 201
- Called 26.5% of time when present
- Phage (with cluster) where this start called: Aloeri_63 (F1), AlpineSix_84 (F1), AuntGwenStacy_51 (Y), Beanstalk_82 (F1), Blexus_78 (F1), BobaPhett_83 (F1), BuzzLyseyear_83 (F1), Che8_89 (F1), Corium_76 (F1), Crumble_78 (F1), DRBy19_87 (F1), DeadP_84 (F1), DirtMcgirt_82 (F1), Doomslug_96 (F), DosHalletts_83 (F1), Enzomatic_94 (F1), Faiyaz_51 (Y), Fancypants_53 (F1), Fastidio_85 (F1), Galactic_84 (F1), IMpilo_78 (F1), IbOuu_78 (F1), Jant_90 (F1), KingJulian_82 (F1), Latretium_85 (F1), LittleShirley_89 (F1), Lizziana_85 (F1), Lucia_83 (F1), MadMen_81 (F1), Mattes_81 (F1), Medindi_87 (F1), MilanaBonita_73 (F1), Misha28_60 (F1), Modragons_82 (F1), MulchExplorer_82 (F1), MulchSalad_89 (F7), Nichirin_78 (F1), Oksu_84 (F1), PMC_80 (F1), PatoPoderoso_76 (F1), Peridot_87 (F1), Phasih_76 (F1), Philus_86 (F1), Polo2Bam_93 (F1), Priscilla_78 (F1), QuickMath_82 (F1), Quico_89 (F1), RockyHorror_81 (F1), Scitech_53 (N), SeaLumen_90 (F1), Seagreen_82 (F1), Spoonbill_79 (F1), ThetaBob_82 (F4), TootsiePop_60 (F1), Violac_85 (F1), Vivum_83 (F1), XFactor_78 (F1), Yorick_76 (F1),

Summary by clusters:

There are 12 clusters represented in this pham: F1, F2, F4, G1, F, I1, F7, O, N, T, W, Y,

Info for manual annotations of cluster F1:

- Start number 2 was manually annotated 89 times for cluster F1.
- Start number 3 was manually annotated 1 time for cluster F1.
- Start number 5 was manually annotated 39 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 2 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F4:

- Start number 5 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster G1:

- Start number 1 was manually annotated 4 times for cluster G1.
- Start number 2 was manually annotated 30 times for cluster G1.

Info for manual annotations of cluster I1:

- Start number 2 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster N:

- Start number 2 was manually annotated 2 times for cluster N.

Info for manual annotations of cluster O:

- Start number 2 was manually annotated 23 times for cluster O.

Info for manual annotations of cluster T:

- Start number 2 was manually annotated 1 time for cluster T.

Info for manual annotations of cluster W:

- Start number 2 was manually annotated 5 times for cluster W.

Info for manual annotations of cluster Y:

- Start number 2 was manually annotated 2 times for cluster Y.
- Start number 5 was manually annotated 1 time for cluster Y.

Gene Information:

Gene: Akhila_74 Start: 46879, Stop: 47250, Start Num: 2

Candidate Starts for Akhila_74:

(Start: 2 @46879 has 155 MA's), (Start: 3 @46909 has 1 MA's), (Start: 5 @46918 has 41 MA's), (6, 46954), (7, 47068), (9, 47128), (10, 47176), (11, 47179),

Gene: Alexphander_80 Start: 48851, Stop: 49222, Start Num: 2

Candidate Starts for Alexphander_80:

(Start: 2 @48851 has 155 MA's), (Start: 3 @48881 has 1 MA's), (Start: 5 @48890 has 41 MA's), (6, 48926), (7, 49040), (9, 49100), (10, 49148), (11, 49151),

Gene: Alkhayr_23 Start: 10697, Stop: 11071, Start Num: 2

Candidate Starts for Alkhayr_23:

(Start: 2 @10697 has 155 MA's), (Start: 3 @10727 has 1 MA's), (Start: 5 @10736 has 41 MA's), (6, 10772), (7, 10886), (9, 10946), (14, 11057),

Gene: Aloeri_63 Start: 40244, Stop: 40576, Start Num: 5

Candidate Starts for Aloeri_63:

(Start: 2 @40205 has 155 MA's), (Start: 3 @40235 has 1 MA's), (Start: 5 @40244 has 41 MA's), (6, 40280), (7, 40394), (9, 40454), (10, 40502), (11, 40505),

Gene: AlpineSix_84 Start: 48904, Stop: 49236, Start Num: 5

Candidate Starts for AlpineSix_84:

(Start: 2 @48865 has 155 MA's), (Start: 3 @48895 has 1 MA's), (Start: 5 @48904 has 41 MA's), (6, 48940), (7, 49054), (9, 49114), (10, 49162), (11, 49165),

Gene: Ardmore_69 Start: 44219, Stop: 44590, Start Num: 2

Candidate Starts for Ardmore_69:

(Start: 2 @44219 has 155 MA's), (Start: 3 @44249 has 1 MA's), (Start: 5 @44258 has 41 MA's), (6, 44294), (7, 44408), (9, 44468), (10, 44516), (11, 44519),

Gene: Argie_66 Start: 49072, Stop: 49443, Start Num: 2

Candidate Starts for Argie_66:

(Start: 2 @49072 has 155 MA's), (Start: 3 @49102 has 1 MA's), (Start: 5 @49111 has 41 MA's), (6, 49147), (7, 49261), (9, 49321), (10, 49369), (11, 49372),

Gene: Aroostook_53 Start: 37660, Stop: 38049, Start Num: 1

Candidate Starts for Aroostook_53:

(Start: 1 @37660 has 4 MA's), (Start: 2 @37687 has 155 MA's), (4, 37720), (Start: 5 @37726 has 41 MA's), (6, 37762), (7, 37876),

Gene: Ashwin_24 Start: 10917, Stop: 11291, Start Num: 2

Candidate Starts for Ashwin_24:

(Start: 2 @10917 has 155 MA's), (Start: 3 @10947 has 1 MA's), (Start: 5 @10956 has 41 MA's), (6, 10992), (7, 11106), (9, 11166), (14, 11277),

Gene: AuntGwenStacy_51 Start: 37629, Stop: 37961, Start Num: 5

Candidate Starts for AuntGwenStacy_51:

(Start: 2 @37590 has 155 MA's), (Start: 3 @37620 has 1 MA's), (Start: 5 @37629 has 41 MA's), (6, 37665), (7, 37779), (9, 37839), (10, 37887), (11, 37890),

Gene: Avrafan_57 Start: 39875, Stop: 40246, Start Num: 2

Candidate Starts for Avrafan_57:

(Start: 2 @39875 has 155 MA's), (Start: 3 @39905 has 1 MA's), (Start: 5 @39914 has 41 MA's), (6, 39950), (7, 40064), (9, 40124), (10, 40172), (11, 40175),

Gene: Awesomesauce_62 Start: 39288, Stop: 39659, Start Num: 2

Candidate Starts for Awesomesauce_62:

(Start: 2 @39288 has 155 MA's), (Start: 3 @39318 has 1 MA's), (Start: 5 @39327 has 41 MA's), (6, 39363), (7, 39477), (9, 39537), (10, 39585), (11, 39588),

Gene: AzulaCat_58 Start: 39158, Stop: 39529, Start Num: 2

Candidate Starts for AzulaCat_58:

(Start: 2 @39158 has 155 MA's), (Start: 3 @39188 has 1 MA's), (Start: 5 @39197 has 41 MA's), (6, 39233), (7, 39347), (9, 39407), (10, 39455), (11, 39458),

Gene: BPs_58 Start: 39937, Stop: 40308, Start Num: 2

Candidate Starts for BPs_58:

(Start: 2 @39937 has 155 MA's), (Start: 3 @39967 has 1 MA's), (Start: 5 @39976 has 41 MA's), (6, 40012), (7, 40126), (9, 40186), (10, 40234), (11, 40237),

Gene: Beakin_76 Start: 46101, Stop: 46472, Start Num: 2

Candidate Starts for Beakin_76:

(Start: 2 @46101 has 155 MA's), (Start: 3 @46131 has 1 MA's), (Start: 5 @46140 has 41 MA's), (6, 46176), (7, 46290), (9, 46350), (10, 46398), (11, 46401),

Gene: Beanstalk_82 Start: 49021, Stop: 49353, Start Num: 5

Candidate Starts for Beanstalk_82:

(Start: 2 @48982 has 155 MA's), (Start: 3 @49012 has 1 MA's), (Start: 5 @49021 has 41 MA's), (6, 49057), (7, 49171), (9, 49231), (10, 49279), (11, 49282),

Gene: Blessica_23 Start: 10720, Stop: 11094, Start Num: 2

Candidate Starts for Blessica_23:

(Start: 2 @10720 has 155 MA's), (Start: 3 @10750 has 1 MA's), (Start: 5 @10759 has 41 MA's), (6, 10795), (7, 10909), (9, 10969), (14, 11080),

Gene: Blexus_78 Start: 49437, Stop: 49769, Start Num: 5

Candidate Starts for Blexus_78:

(Start: 2 @49398 has 155 MA's), (Start: 3 @49428 has 1 MA's), (Start: 5 @49437 has 41 MA's), (6, 49473), (7, 49587), (9, 49647), (10, 49695), (11, 49698),

Gene: BlueCrab_81 Start: 49348, Stop: 49719, Start Num: 2

Candidate Starts for BlueCrab_81:

(Start: 2 @49348 has 155 MA's), (Start: 3 @49378 has 1 MA's), (Start: 5 @49387 has 41 MA's), (6, 49423), (7, 49537), (9, 49597), (10, 49645), (11, 49648),

Gene: BobaPhett_83 Start: 51394, Stop: 51726, Start Num: 5

Candidate Starts for BobaPhett_83:

(Start: 2 @51355 has 155 MA's), (Start: 3 @51385 has 1 MA's), (Start: 5 @51394 has 41 MA's), (6, 51430), (7, 51544), (9, 51604), (10, 51652), (11, 51655),

Gene: Boomer_87 Start: 50213, Stop: 50584, Start Num: 2

Candidate Starts for Boomer_87:

(Start: 2 @50213 has 155 MA's), (Start: 3 @50243 has 1 MA's), (Start: 5 @50252 has 41 MA's), (6, 50288), (7, 50402), (9, 50462), (10, 50510), (11, 50513),

Gene: Brocalys_73 Start: 46835, Stop: 47206, Start Num: 2

Candidate Starts for Brocalys_73:

(Start: 2 @46835 has 155 MA's), (Start: 3 @46865 has 1 MA's), (Start: 5 @46874 has 41 MA's), (6, 46910), (7, 47024), (9, 47084), (10, 47132), (11, 47135),

Gene: BruceB_58 Start: 39937, Stop: 40308, Start Num: 2

Candidate Starts for BruceB_58:

(Start: 2 @39937 has 155 MA's), (Start: 3 @39967 has 1 MA's), (Start: 5 @39976 has 41 MA's), (6, 40012), (7, 40126), (9, 40186), (10, 40234), (11, 40237),

Gene: Brujita_51 Start: 36162, Stop: 36533, Start Num: 2

Candidate Starts for Brujita_51:

(Start: 2 @36162 has 155 MA's), (Start: 3 @36192 has 1 MA's), (Start: 5 @36201 has 41 MA's), (6, 36237), (7, 36351), (9, 36411), (10, 36459), (11, 36462),

Gene: Burwell21_78 Start: 49121, Stop: 49492, Start Num: 2

Candidate Starts for Burwell21_78:

(Start: 2 @49121 has 155 MA's), (Start: 3 @49151 has 1 MA's), (Start: 5 @49160 has 41 MA's), (6, 49196), (7, 49310), (9, 49370), (10, 49418), (11, 49421),

Gene: BuzzLyseyear_83 Start: 50298, Stop: 50630, Start Num: 5

Candidate Starts for BuzzLyseyear_83:

(Start: 2 @50259 has 155 MA's), (Start: 3 @50289 has 1 MA's), (Start: 5 @50298 has 41 MA's), (6, 50334), (7, 50448), (9, 50508), (10, 50556), (11, 50559),

Gene: Byougenkin_80 Start: 46822, Stop: 47193, Start Num: 2

Candidate Starts for Byougenkin_80:

(Start: 2 @46822 has 155 MA's), (Start: 3 @46852 has 1 MA's), (Start: 5 @46861 has 41 MA's), (6, 46897), (7, 47011), (9, 47071), (10, 47119), (11, 47122),

Gene: Cabrinians_80 Start: 48755, Stop: 49126, Start Num: 2

Candidate Starts for Cabrinians_80:

(Start: 2 @48755 has 155 MA's), (Start: 3 @48785 has 1 MA's), (Start: 5 @48794 has 41 MA's), (6, 48830), (7, 48944), (9, 49004), (10, 49052), (11, 49055),

Gene: Camri_61 Start: 40731, Stop: 41102, Start Num: 2

Candidate Starts for Camri_61:

(Start: 2 @40731 has 155 MA's), (Start: 3 @40761 has 1 MA's), (Start: 5 @40770 has 41 MA's), (6, 40806), (7, 40920), (9, 40980), (10, 41028), (11, 41031),

Gene: CaptainTrips_86 Start: 49981, Stop: 50352, Start Num: 2

Candidate Starts for CaptainTrips_86:

(Start: 2 @49981 has 155 MA's), (Start: 3 @50011 has 1 MA's), (Start: 5 @50020 has 41 MA's), (6, 50056), (7, 50170), (9, 50230), (10, 50278), (11, 50281),

Gene: CassieYates_56 Start: 38643, Stop: 39014, Start Num: 2

Candidate Starts for CassieYates_56:

(Start: 2 @38643 has 155 MA's), (Start: 3 @38673 has 1 MA's), (Start: 5 @38682 has 41 MA's), (6, 38718), (7, 38832), (9, 38892), (10, 38940), (11, 38943),

Gene: Catdawg_22 Start: 10326, Stop: 10700, Start Num: 2

Candidate Starts for Catdawg_22:

(Start: 2 @10326 has 155 MA's), (Start: 3 @10356 has 1 MA's), (Start: 5 @10365 has 41 MA's), (6, 10401), (7, 10515), (9, 10575), (14, 10686),

Gene: Cedasite_56 Start: 38643, Stop: 39014, Start Num: 2

Candidate Starts for Cedasite_56:

(Start: 2 @38643 has 155 MA's), (Start: 3 @38673 has 1 MA's), (Start: 5 @38682 has 41 MA's), (6, 38718), (7, 38832), (9, 38892), (10, 38940), (11, 38943),

Gene: Cepens_68 Start: 49954, Stop: 50325, Start Num: 2

Candidate Starts for Cepens_68:

(Start: 2 @49954 has 155 MA's), (Start: 3 @49984 has 1 MA's), (Start: 5 @49993 has 41 MA's), (6, 50029), (7, 50143), (9, 50203), (10, 50251), (11, 50254),

Gene: Chance64_53 Start: 37660, Stop: 38049, Start Num: 1

Candidate Starts for Chance64_53:

(Start: 1 @37660 has 4 MA's), (Start: 2 @37687 has 155 MA's), (4, 37720), (Start: 5 @37726 has 41 MA's), (6, 37762), (7, 37876),

Gene: Che8_89 Start: 50756, Stop: 51088, Start Num: 5

Candidate Starts for Che8_89:

(Start: 2 @50717 has 155 MA's), (Start: 3 @50747 has 1 MA's), (Start: 5 @50756 has 41 MA's), (6, 50792), (7, 50906), (9, 50966), (10, 51014), (11, 51017),

Gene: Chewbacca_59 Start: 37273, Stop: 37644, Start Num: 2

Candidate Starts for Chewbacca_59:

(Start: 2 @37273 has 155 MA's), (Start: 3 @37303 has 1 MA's), (Start: 5 @37312 has 41 MA's), (6, 37348), (7, 37462), (9, 37522), (10, 37570), (11, 37573),

Gene: ChickenDinner_62 Start: 40205, Stop: 40576, Start Num: 2

Candidate Starts for ChickenDinner_62:

(Start: 2 @40205 has 155 MA's), (Start: 3 @40235 has 1 MA's), (Start: 5 @40244 has 41 MA's), (6, 40280), (7, 40394), (9, 40454), (10, 40502), (11, 40505),

Gene: Clifton_76 Start: 47937, Stop: 48308, Start Num: 2

Candidate Starts for Clifton_76:

(Start: 2 @47937 has 155 MA's), (Start: 3 @47967 has 1 MA's), (Start: 5 @47976 has 41 MA's), (6, 48012), (7, 48126), (9, 48186), (10, 48234), (11, 48237),

Gene: Corium_76 Start: 49397, Stop: 49729, Start Num: 5

Candidate Starts for Corium_76:

(Start: 2 @49358 has 155 MA's), (Start: 3 @49388 has 1 MA's), (Start: 5 @49397 has 41 MA's), (6, 49433), (7, 49547), (9, 49607), (10, 49655), (11, 49658),

Gene: Cornucopia_83 Start: 48114, Stop: 48485, Start Num: 2

Candidate Starts for Cornucopia_83:

(Start: 2 @48114 has 155 MA's), (Start: 3 @48144 has 1 MA's), (Start: 5 @48153 has 41 MA's), (6, 48189), (7, 48303), (9, 48363), (10, 48411), (11, 48414),

Gene: Crespo_55 Start: 38644, Stop: 39015, Start Num: 2

Candidate Starts for Crespo_55:

(Start: 2 @38644 has 155 MA's), (Start: 3 @38674 has 1 MA's), (Start: 5 @38683 has 41 MA's), (6, 38719), (7, 38833), (9, 38893), (10, 38941), (11, 38944),

Gene: Crumble_78 Start: 45519, Stop: 45851, Start Num: 5

Candidate Starts for Crumble_78:

(Start: 2 @45480 has 155 MA's), (Start: 3 @45510 has 1 MA's), (Start: 5 @45519 has 41 MA's), (6, 45555), (7, 45669), (9, 45729), (10, 45777), (11, 45780),

Gene: D12_68 Start: 50589, Stop: 50960, Start Num: 2

Candidate Starts for D12_68:

(Start: 2 @50589 has 155 MA's), (Start: 3 @50619 has 1 MA's), (Start: 5 @50628 has 41 MA's), (6, 50664), (7, 50778), (9, 50838), (10, 50886), (11, 50889),

Gene: DLane_84 Start: 50726, Stop: 51097, Start Num: 2

Candidate Starts for DLane_84:

(Start: 2 @50726 has 155 MA's), (Start: 3 @50756 has 1 MA's), (Start: 5 @50765 has 41 MA's), (6, 50801), (7, 50915), (9, 50975), (10, 51023), (11, 51026),

Gene: DMoney_57 Start: 39853, Stop: 40224, Start Num: 2

Candidate Starts for DMoney_57:

(Start: 2 @39853 has 155 MA's), (Start: 3 @39883 has 1 MA's), (Start: 5 @39892 has 41 MA's), (6, 39928), (7, 40042), (9, 40102), (10, 40150), (11, 40153),

Gene: DRBy19_87 Start: 51705, Stop: 52037, Start Num: 5

Candidate Starts for DRBy19_87:

(Start: 2 @51666 has 155 MA's), (Start: 3 @51696 has 1 MA's), (Start: 5 @51705 has 41 MA's), (6, 51741), (7, 51855), (9, 51915), (10, 51963), (11, 51966),

Gene: Dante_81 Start: 50860, Stop: 51231, Start Num: 2

Candidate Starts for Dante_81:

(Start: 2 @50860 has 155 MA's), (Start: 3 @50890 has 1 MA's), (Start: 5 @50899 has 41 MA's), (6, 50935), (7, 51049), (9, 51109), (10, 51157), (11, 51160),

Gene: Darionha_55 Start: 38290, Stop: 38661, Start Num: 2

Candidate Starts for Darionha_55:

(Start: 2 @38290 has 155 MA's), (Start: 3 @38320 has 1 MA's), (Start: 5 @38329 has 41 MA's), (6, 38365), (7, 38479), (9, 38539), (10, 38587), (11, 38590),

Gene: DeadP_84 Start: 48685, Stop: 49017, Start Num: 5

Candidate Starts for DeadP_84:

(Start: 2 @48646 has 155 MA's), (Start: 3 @48676 has 1 MA's), (Start: 5 @48685 has 41 MA's), (6, 48721), (7, 48835), (9, 48895), (10, 48943), (11, 48946),

Gene: DirtMcgirt_82 Start: 46862, Stop: 47194, Start Num: 5

Candidate Starts for DirtMcgirt_82:

(Start: 2 @46823 has 155 MA's), (Start: 3 @46853 has 1 MA's), (Start: 5 @46862 has 41 MA's), (6, 46898), (7, 47012), (9, 47072), (10, 47120), (11, 47123),

Gene: DoRead_83 Start: 47481, Stop: 47852, Start Num: 2

Candidate Starts for DoRead_83:

(Start: 2 @47481 has 155 MA's), (Start: 3 @47511 has 1 MA's), (Start: 5 @47520 has 41 MA's), (6, 47556), (7, 47670), (9, 47730), (10, 47778), (11, 47781),

Gene: DocMcStuffins_62 Start: 40205, Stop: 40576, Start Num: 2

Candidate Starts for DocMcStuffins_62:

(Start: 2 @40205 has 155 MA's), (Start: 3 @40235 has 1 MA's), (Start: 5 @40244 has 41 MA's), (6, 40280), (7, 40394), (9, 40454), (10, 40502), (11, 40505),

Gene: Doomslug_96 Start: 51107, Stop: 51439, Start Num: 5

Candidate Starts for Doomslug_96:

(Start: 2 @51068 has 155 MA's), (Start: 3 @51098 has 1 MA's), (Start: 5 @51107 has 41 MA's), (6, 51143), (7, 51257), (9, 51317), (10, 51365), (11, 51368),

Gene: DosHalletts_83 Start: 50224, Stop: 50577, Start Num: 5

Candidate Starts for DosHalletts_83:

(Start: 2 @50185 has 155 MA's), (Start: 3 @50215 has 1 MA's), (Start: 5 @50224 has 41 MA's), (6, 50260), (7, 50374), (9, 50434), (10, 50482), (11, 50485), (12, 50500), (13, 50518),

Gene: Drago_80 Start: 46826, Stop: 47197, Start Num: 2

Candidate Starts for Drago_80:

(Start: 2 @46826 has 155 MA's), (Start: 3 @46856 has 1 MA's), (Start: 5 @46865 has 41 MA's), (6, 46901), (7, 47015), (9, 47075), (10, 47123), (11, 47126),

Gene: ECartman_53 Start: 38280, Stop: 38651, Start Num: 2

Candidate Starts for ECartman_53:

(Start: 2 @38280 has 155 MA's), (Start: 3 @38310 has 1 MA's), (Start: 5 @38319 has 41 MA's), (6, 38355), (7, 38469), (9, 38529), (10, 38577), (11, 38580),

Gene: Eish_86 Start: 50529, Stop: 50900, Start Num: 2

Candidate Starts for Eish_86:

(Start: 2 @50529 has 155 MA's), (Start: 3 @50559 has 1 MA's), (Start: 5 @50568 has 41 MA's), (6, 50604), (7, 50718), (9, 50778), (10, 50826), (11, 50829),

Gene: Emmaloid_85 Start: 49155, Stop: 49526, Start Num: 2

Candidate Starts for Emmaloid_85:

(Start: 2 @49155 has 155 MA's), (Start: 3 @49185 has 1 MA's), (Start: 5 @49194 has 41 MA's), (6, 49230), (7, 49344), (9, 49404), (10, 49452), (11, 49455),

Gene: Enby_84 Start: 47102, Stop: 47473, Start Num: 2

Candidate Starts for Enby_84:

(Start: 2 @47102 has 155 MA's), (Start: 3 @47132 has 1 MA's), (Start: 5 @47141 has 41 MA's), (6, 47177), (7, 47291), (9, 47351), (10, 47399), (11, 47402),

Gene: Enzomatic_94 Start: 48281, Stop: 48613, Start Num: 5

Candidate Starts for Enzomatic_94:

(Start: 2 @48242 has 155 MA's), (Start: 3 @48272 has 1 MA's), (Start: 5 @48281 has 41 MA's), (6, 48317), (7, 48431), (9, 48491), (10, 48539), (11, 48542),

Gene: Eradicator_74 Start: 47425, Stop: 47796, Start Num: 2

Candidate Starts for Eradicator_74:

(Start: 2 @47425 has 155 MA's), (Start: 3 @47455 has 1 MA's), (Start: 5 @47464 has 41 MA's), (6, 47500), (7, 47614), (9, 47674), (10, 47722), (11, 47725),

Gene: Faiyaz_51 Start: 37614, Stop: 37946, Start Num: 5

Candidate Starts for Faiyaz_51:

(Start: 2 @37575 has 155 MA's), (Start: 3 @37605 has 1 MA's), (Start: 5 @37614 has 41 MA's), (6, 37650), (7, 37764), (9, 37824), (10, 37872), (11, 37875),

Gene: Familton_23 Start: 10327, Stop: 10701, Start Num: 2

Candidate Starts for Familton_23:

(Start: 2 @10327 has 155 MA's), (Start: 3 @10357 has 1 MA's), (Start: 5 @10366 has 41 MA's), (6, 10402), (7, 10516), (9, 10576), (14, 10687),

Gene: Fancypants_53 Start: 37855, Stop: 38187, Start Num: 5

Candidate Starts for Fancypants_53:

(Start: 2 @37816 has 155 MA's), (Start: 3 @37846 has 1 MA's), (Start: 5 @37855 has 41 MA's), (6, 37891), (7, 38005), (9, 38065), (10, 38113), (11, 38116),

Gene: Fastidio_85 Start: 47111, Stop: 47443, Start Num: 5

Candidate Starts for Fastidio_85:

(Start: 2 @47072 has 155 MA's), (Start: 3 @47102 has 1 MA's), (Start: 5 @47111 has 41 MA's), (6, 47147), (7, 47261), (9, 47321), (10, 47369), (11, 47372),

Gene: Firecracker_23 Start: 10650, Stop: 10994, Start Num: 2

Candidate Starts for Firecracker_23:

(Start: 2 @10650 has 155 MA's), (Start: 3 @10680 has 1 MA's), (Start: 5 @10689 has 41 MA's), (6, 10725), (7, 10839), (9, 10899), (14, 10980),

Gene: Flathead_83 Start: 49275, Stop: 49646, Start Num: 2

Candidate Starts for Flathead_83:

(Start: 2 @49275 has 155 MA's), (Start: 3 @49305 has 1 MA's), (Start: 5 @49314 has 41 MA's), (6, 49350), (7, 49464), (9, 49524), (10, 49572), (11, 49575),

Gene: Florinda_92 Start: 51063, Stop: 51434, Start Num: 2

Candidate Starts for Florinda_92:

(Start: 2 @51063 has 155 MA's), (Start: 3 @51093 has 1 MA's), (Start: 5 @51102 has 41 MA's), (6, 51138), (7, 51252), (9, 51312), (10, 51360), (11, 51363),

Gene: FoulBall_22 Start: 10327, Stop: 10701, Start Num: 2

Candidate Starts for FoulBall_22:

(Start: 2 @10327 has 155 MA's), (Start: 3 @10357 has 1 MA's), (Start: 5 @10366 has 41 MA's), (6, 10402), (7, 10516), (9, 10576), (14, 10687),

Gene: FreddyB_91 Start: 50402, Stop: 50773, Start Num: 2

Candidate Starts for FreddyB_91:

(Start: 2 @50402 has 155 MA's), (Start: 3 @50432 has 1 MA's), (Start: 5 @50441 has 41 MA's), (6, 50477), (7, 50591), (9, 50651), (10, 50699), (11, 50702),

Gene: Frosty24_59 Start: 40199, Stop: 40570, Start Num: 2

Candidate Starts for Frosty24_59:

(Start: 2 @40199 has 155 MA's), (Start: 3 @40229 has 1 MA's), (Start: 5 @40238 has 41 MA's), (6, 40274), (7, 40388), (9, 40448), (10, 40496),

Gene: GUmbie_74 Start: 47610, Stop: 47981, Start Num: 2

Candidate Starts for GUmbie_74:

(Start: 2 @47610 has 155 MA's), (Start: 3 @47640 has 1 MA's), (Start: 5 @47649 has 41 MA's), (6, 47685), (7, 47799), (9, 47859), (10, 47907), (11, 47910),

Gene: Galactic_84 Start: 49491, Stop: 49823, Start Num: 5

Candidate Starts for Galactic_84:

(Start: 5 @49491 has 41 MA's), (6, 49527), (7, 49641), (9, 49701), (10, 49749), (11, 49752),

Gene: Gandalph_81 Start: 46546, Stop: 46917, Start Num: 2

Candidate Starts for Gandalph_81:

(Start: 2 @46546 has 155 MA's), (Start: 3 @46576 has 1 MA's), (Start: 5 @46585 has 41 MA's), (6, 46621), (7, 46735), (9, 46795), (10, 46843), (11, 46846),

Gene: Gideon_47 Start: 35578, Stop: 35967, Start Num: 1

Candidate Starts for Gideon_47:

(Start: 1 @35578 has 4 MA's), (Start: 2 @35605 has 155 MA's), (4, 35638), (Start: 5 @35644 has 41 MA's), (6, 35680), (7, 35794),

Gene: GigiOuiOui_77 Start: 48271, Stop: 48642, Start Num: 2

Candidate Starts for GigiOuiOui_77:

(Start: 2 @48271 has 155 MA's), (Start: 3 @48301 has 1 MA's), (Start: 5 @48310 has 41 MA's), (6, 48346), (7, 48460), (9, 48520), (10, 48568), (11, 48571),

Gene: Girafales_89 Start: 50668, Stop: 51039, Start Num: 2

Candidate Starts for Girafales_89:

(Start: 2 @50668 has 155 MA's), (Start: 3 @50698 has 1 MA's), (Start: 5 @50707 has 41 MA's), (6, 50743), (7, 50857), (9, 50917), (10, 50965), (11, 50968),

Gene: Gorge_82 Start: 50030, Stop: 50401, Start Num: 2

Candidate Starts for Gorge_82:

(Start: 2 @50030 has 155 MA's), (Start: 3 @50060 has 1 MA's), (Start: 5 @50069 has 41 MA's), (6, 50105), (7, 50219), (9, 50279), (10, 50327), (11, 50330),

Gene: Hades_83 Start: 47779, Stop: 48150, Start Num: 2

Candidate Starts for Hades_83:

(Start: 2 @47779 has 155 MA's), (Start: 3 @47809 has 1 MA's), (Start: 5 @47818 has 41 MA's), (6, 47854), (7, 47968), (9, 48028), (10, 48076), (11, 48079),

Gene: Harley_82 Start: 48875, Stop: 49246, Start Num: 2

Candidate Starts for Harley_82:

(Start: 2 @48875 has 155 MA's), (Start: 3 @48905 has 1 MA's), (Start: 5 @48914 has 41 MA's), (6, 48950), (7, 49064), (9, 49124), (10, 49172), (11, 49175),

Gene: Hilltopfarm_93 Start: 59628, Stop: 59999, Start Num: 2

Candidate Starts for Hilltopfarm_93:

(Start: 2 @59628 has 155 MA's), (Start: 3 @59658 has 1 MA's), (Start: 5 @59667 has 41 MA's), (6, 59703), (7, 59817), (9, 59877), (10, 59925), (11, 59928),

Gene: Hlubikazi_78 Start: 46786, Stop: 47157, Start Num: 2

Candidate Starts for Hlubikazi_78:

(Start: 2 @46786 has 155 MA's), (Start: 3 @46816 has 1 MA's), (Start: 5 @46825 has 41 MA's), (6, 46861), (7, 46975), (9, 47035), (10, 47083), (11, 47086),

Gene: Hope_57 Start: 39158, Stop: 39529, Start Num: 2

Candidate Starts for Hope_57:

(Start: 2 @39158 has 155 MA's), (Start: 3 @39188 has 1 MA's), (Start: 5 @39197 has 41 MA's), (6, 39233), (7, 39347), (9, 39407), (10, 39455), (11, 39458),

Gene: IMpilo_78 Start: 47215, Stop: 47547, Start Num: 5

Candidate Starts for IMpilo_78:

(Start: 3 @47206 has 1 MA's), (Start: 5 @47215 has 41 MA's), (6, 47251), (7, 47365), (9, 47425), (10, 47473), (11, 47476),

Gene: IbOuu_78 Start: 47956, Stop: 48288, Start Num: 5

Candidate Starts for IbOuu_78:

(Start: 2 @47917 has 155 MA's), (Start: 3 @47947 has 1 MA's), (Start: 5 @47956 has 41 MA's), (6, 47992), (7, 48106), (9, 48166), (10, 48214), (11, 48217),

Gene: Idergollasper_22 Start: 10327, Stop: 10701, Start Num: 2

Candidate Starts for Idergollasper_22:

(Start: 2 @10327 has 155 MA's), (Start: 3 @10357 has 1 MA's), (Start: 5 @10366 has 41 MA's), (6, 10402), (7, 10516), (9, 10576), (14, 10687),

Gene: Island3_51 Start: 36162, Stop: 36533, Start Num: 2

Candidate Starts for Island3_51:

(Start: 2 @36162 has 155 MA's), (Start: 3 @36192 has 1 MA's), (Start: 5 @36201 has 41 MA's), (6, 36237), (7, 36351), (9, 36411), (10, 36459), (11, 36462),

Gene: James_84 Start: 51001, Stop: 51372, Start Num: 2

Candidate Starts for James_84:

(Start: 2 @51001 has 155 MA's), (Start: 3 @51031 has 1 MA's), (Start: 5 @51040 has 41 MA's), (6, 51076), (7, 51190), (9, 51250), (10, 51298), (11, 51301),

Gene: Jane_59 Start: 39937, Stop: 40308, Start Num: 2

Candidate Starts for Jane_59:

(Start: 2 @39937 has 155 MA's), (Start: 3 @39967 has 1 MA's), (Start: 5 @39976 has 41 MA's), (6, 40012), (7, 40126), (9, 40186), (10, 40234), (11, 40237),

Gene: JangDynasty_22 Start: 10416, Stop: 10790, Start Num: 2

Candidate Starts for JangDynasty_22:

(Start: 2 @10416 has 155 MA's), (Start: 3 @10446 has 1 MA's), (Start: 5 @10455 has 41 MA's), (6, 10491), (7, 10605), (9, 10665), (14, 10776),

Gene: Jant_90 Start: 49772, Stop: 50104, Start Num: 5

Candidate Starts for Jant_90:

(Start: 2 @49733 has 155 MA's), (Start: 3 @49763 has 1 MA's), (Start: 5 @49772 has 41 MA's), (6, 49808), (7, 49922), (9, 49982), (10, 50030), (11, 50033),

Gene: Jarcob_83 Start: 50599, Stop: 50970, Start Num: 2

Candidate Starts for Jarcob_83:

(Start: 2 @50599 has 155 MA's), (Start: 3 @50629 has 1 MA's), (Start: 5 @50638 has 41 MA's), (6, 50674), (7, 50788), (9, 50848), (10, 50896), (11, 50899),

Gene: Jinglebell_84 Start: 48864, Stop: 49235, Start Num: 2

Candidate Starts for Jinglebell_84:

(Start: 2 @48864 has 155 MA's), (Start: 3 @48894 has 1 MA's), (Start: 5 @48903 has 41 MA's), (6, 48939), (7, 49053), (9, 49113), (10, 49161), (11, 49164),

Gene: Jonghyun_51 Start: 37660, Stop: 38049, Start Num: 1

Candidate Starts for Jonghyun_51:

(Start: 1 @37660 has 4 MA's), (Start: 2 @37687 has 155 MA's), (4, 37720), (Start: 5 @37726 has 41 MA's), (6, 37762), (7, 37876),

Gene: JorRay_58 Start: 39158, Stop: 39529, Start Num: 2

Candidate Starts for JorRay_58:

(Start: 2 @39158 has 155 MA's), (Start: 3 @39188 has 1 MA's), (Start: 5 @39197 has 41 MA's), (6, 39233), (7, 39347), (9, 39407), (10, 39455), (11, 39458),

Gene: Juice456_80 Start: 48780, Stop: 49151, Start Num: 2

Candidate Starts for Juice456_80:

(Start: 2 @48780 has 155 MA's), (Start: 3 @48810 has 1 MA's), (Start: 5 @48819 has 41 MA's), (6, 48855), (7, 48969), (9, 49029), (10, 49077), (11, 49080),

Gene: Kareem_59 Start: 39937, Stop: 40308, Start Num: 2

Candidate Starts for Kareem_59:

(Start: 2 @39937 has 155 MA's), (Start: 3 @39967 has 1 MA's), (Start: 5 @39976 has 41 MA's), (6, 40012), (7, 40126), (9, 40186), (10, 40234), (11, 40237),

Gene: Kasen3_59 Start: 39926, Stop: 40297, Start Num: 2

Candidate Starts for Kasen3_59:

(Start: 2 @39926 has 155 MA's), (Start: 3 @39956 has 1 MA's), (Start: 5 @39965 has 41 MA's), (6, 40001), (7, 40115), (9, 40175), (10, 40223), (11, 40226),

Gene: Kersh_85 Start: 51387, Stop: 51758, Start Num: 2

Candidate Starts for Kersh_85:

(Start: 2 @51387 has 155 MA's), (Start: 3 @51417 has 1 MA's), (Start: 5 @51426 has 41 MA's), (6, 51462), (7, 51576), (9, 51636), (10, 51684), (11, 51687),

Gene: Kimberlium_84 Start: 48880, Stop: 49251, Start Num: 2

Candidate Starts for Kimberlium_84:

(Start: 2 @48880 has 155 MA's), (Start: 3 @48910 has 1 MA's), (Start: 5 @48919 has 41 MA's), (6, 48955), (7, 49069), (9, 49129), (10, 49177), (11, 49180),

Gene: KingJulian_82 Start: 49397, Stop: 49729, Start Num: 5

Candidate Starts for KingJulian_82:

(Start: 2 @49358 has 155 MA's), (Start: 3 @49388 has 1 MA's), (Start: 5 @49397 has 41 MA's), (6, 49433), (7, 49547), (9, 49607), (10, 49655), (11, 49658),

Gene: Koella_71 Start: 44654, Stop: 45025, Start Num: 2

Candidate Starts for Koella_71:

(Start: 2 @44654 has 155 MA's), (Start: 3 @44684 has 1 MA's), (Start: 5 @44693 has 41 MA's), (6, 44729), (7, 44843), (9, 44903), (10, 44951), (11, 44954),

Gene: Krili_23 Start: 10686, Stop: 11060, Start Num: 2

Candidate Starts for Krili_23:

(Start: 2 @10686 has 155 MA's), (Start: 3 @10716 has 1 MA's), (Start: 5 @10725 has 41 MA's), (6, 10761), (7, 10875), (9, 10935), (14, 11046),

Gene: LastJedi_73 Start: 47229, Stop: 47600, Start Num: 2

Candidate Starts for LastJedi_73:

(Start: 2 @47229 has 155 MA's), (Start: 3 @47259 has 1 MA's), (Start: 5 @47268 has 41 MA's), (6, 47304), (7, 47418), (9, 47478), (10, 47526), (11, 47529),

Gene: Latretium_85 Start: 49190, Stop: 49522, Start Num: 5

Candidate Starts for Latretium_85:

(Start: 1 @49124 has 4 MA's), (Start: 2 @49151 has 155 MA's), (4, 49184), (Start: 5 @49190 has 41 MA's), (6, 49226), (7, 49340), (9, 49400), (10, 49448), (11, 49451),

Gene: Leozinho_81 Start: 47032, Stop: 47403, Start Num: 2

Candidate Starts for Leozinho_81:

(Start: 2 @47032 has 155 MA's), (Start: 3 @47062 has 1 MA's), (Start: 5 @47071 has 41 MA's), (6, 47107), (7, 47221), (9, 47281), (10, 47329), (11, 47332),

Gene: LilMoolah_84 Start: 50169, Stop: 50540, Start Num: 2

Candidate Starts for LilMoolah_84:

(Start: 2 @50169 has 155 MA's), (Start: 3 @50199 has 1 MA's), (Start: 5 @50208 has 41 MA's), (6, 50244), (7, 50358), (9, 50418), (10, 50466), (11, 50469),

Gene: LittleShirley_89 Start: 50387, Stop: 50719, Start Num: 5

Candidate Starts for LittleShirley_89:

(Start: 2 @50348 has 155 MA's), (Start: 3 @50378 has 1 MA's), (Start: 5 @50387 has 41 MA's), (6, 50423), (7, 50537), (9, 50597), (10, 50645), (11, 50648),

Gene: Lizziana_85 Start: 50517, Stop: 50849, Start Num: 5

Candidate Starts for Lizziana_85:

(Start: 2 @50478 has 155 MA's), (Start: 3 @50508 has 1 MA's), (Start: 5 @50517 has 41 MA's), (6, 50553), (7, 50667), (9, 50727), (10, 50775), (11, 50778),

Gene: Llama_84 Start: 48720, Stop: 49091, Start Num: 2

Candidate Starts for Llama_84:

(Start: 2 @48720 has 155 MA's), (Start: 3 @48750 has 1 MA's), (Start: 5 @48759 has 41 MA's), (6, 48795), (7, 48909), (9, 48969), (10, 49017), (11, 49020),

Gene: Llij_79 Start: 46980, Stop: 47351, Start Num: 2

Candidate Starts for Llij_79:

(Start: 2 @46980 has 155 MA's), (Start: 3 @47010 has 1 MA's), (Start: 5 @47019 has 41 MA's), (6, 47055), (7, 47169), (9, 47229), (10, 47277), (11, 47280),

Gene: Lorde_83 Start: 46267, Stop: 46638, Start Num: 2

Candidate Starts for Lorde_83:

(Start: 2 @46267 has 155 MA's), (Start: 3 @46297 has 1 MA's), (Start: 5 @46306 has 41 MA's), (6, 46342), (7, 46456), (9, 46516), (10, 46564), (11, 46567),

Gene: LouisV14_60 Start: 42118, Stop: 42489, Start Num: 2

Candidate Starts for LouisV14_60:

(Start: 2 @42118 has 155 MA's), (Start: 3 @42148 has 1 MA's), (Start: 5 @42157 has 41 MA's), (6, 42193), (7, 42307), (9, 42367), (10, 42415), (11, 42418),

Gene: Lucia_83 Start: 47154, Stop: 47486, Start Num: 5

Candidate Starts for Lucia_83:

(Start: 2 @47115 has 155 MA's), (Start: 3 @47145 has 1 MA's), (Start: 5 @47154 has 41 MA's), (6, 47190), (7, 47304), (9, 47364), (10, 47412), (11, 47415),

Gene: LunaBlu_87 Start: 50293, Stop: 50664, Start Num: 2

Candidate Starts for LunaBlu_87:

(Start: 2 @50293 has 155 MA's), (Start: 3 @50323 has 1 MA's), (Start: 5 @50332 has 41 MA's), (6, 50368), (7, 50482), (9, 50542), (10, 50590), (11, 50593),

Gene: MadKillah_24 Start: 10719, Stop: 11093, Start Num: 2

Candidate Starts for MadKillah_24:

(Start: 2 @10719 has 155 MA's), (Start: 3 @10749 has 1 MA's), (Start: 5 @10758 has 41 MA's), (6, 10794), (7, 10908), (9, 10968), (14, 11079),

Gene: MadMen_81 Start: 48084, Stop: 48416, Start Num: 5

Candidate Starts for MadMen_81:

(Start: 2 @48045 has 155 MA's), (Start: 3 @48075 has 1 MA's), (Start: 5 @48084 has 41 MA's), (6, 48120), (7, 48234), (9, 48294), (10, 48342), (11, 48345),

Gene: Mandlovu_78 Start: 46728, Stop: 47099, Start Num: 2

Candidate Starts for Mandlovu_78:

(Start: 2 @46728 has 155 MA's), (Start: 3 @46758 has 1 MA's), (Start: 5 @46767 has 41 MA's), (6, 46803), (7, 46917), (9, 46977), (10, 47025), (11, 47028),

Gene: Mattes_81 Start: 49773, Stop: 50105, Start Num: 5

Candidate Starts for Mattes_81:

(Start: 2 @49734 has 155 MA's), (Start: 3 @49764 has 1 MA's), (Start: 5 @49773 has 41 MA's), (6, 49809), (7, 49923), (9, 49983), (10, 50031), (11, 50034),

Gene: Medindi_87 Start: 50771, Stop: 51103, Start Num: 5

Candidate Starts for Medindi_87:

(Start: 2 @50732 has 155 MA's), (Start: 3 @50762 has 1 MA's), (Start: 5 @50771 has 41 MA's), (6, 50807), (7, 50921), (9, 50981), (10, 51029), (11, 51032),

Gene: MilanaBonita_73 Start: 46918, Stop: 47250, Start Num: 5

Candidate Starts for MilanaBonita_73:

(Start: 2 @46879 has 155 MA's), (Start: 3 @46909 has 1 MA's), (Start: 5 @46918 has 41 MA's), (6, 46954), (7, 47068), (9, 47128), (10, 47176), (11, 47179),

Gene: MinionDave_82 Start: 49981, Stop: 50352, Start Num: 2

Candidate Starts for MinionDave_82:

(Start: 2 @49981 has 155 MA's), (Start: 3 @50011 has 1 MA's), (Start: 5 @50020 has 41 MA's), (6, 50056), (7, 50170), (9, 50230), (10, 50278), (11, 50281),

Gene: Misha28_60 Start: 39332, Stop: 39664, Start Num: 5

Candidate Starts for Misha28_60:

(Start: 2 @39293 has 155 MA's), (Start: 3 @39323 has 1 MA's), (Start: 5 @39332 has 41 MA's), (6, 39368), (7, 39482), (9, 39542), (10, 39590), (11, 39593),

Gene: Modragons_82 Start: 48747, Stop: 49079, Start Num: 5

Candidate Starts for Modragons_82:

(Start: 2 @48708 has 155 MA's), (Start: 3 @48738 has 1 MA's), (Start: 5 @48747 has 41 MA's), (6, 48783), (7, 48897), (9, 48957), (10, 49005), (11, 49008),

Gene: Moonbeam_81 Start: 49081, Stop: 49452, Start Num: 2

Candidate Starts for Moonbeam_81:

(Start: 2 @49081 has 155 MA's), (Start: 3 @49111 has 1 MA's), (Start: 5 @49120 has 41 MA's), (6, 49156), (7, 49270), (9, 49330), (10, 49378), (11, 49381),

Gene: Mori_23 Start: 10557, Stop: 10931, Start Num: 2

Candidate Starts for Mori_23:

(Start: 2 @10557 has 155 MA's), (Start: 3 @10587 has 1 MA's), (Start: 5 @10596 has 41 MA's), (6, 10632), (7, 10746), (9, 10806), (14, 10917),

Gene: Mova_82 Start: 48387, Stop: 48758, Start Num: 2

Candidate Starts for Mova_82:

(Start: 2 @48387 has 155 MA's), (Start: 3 @48417 has 1 MA's), (Start: 5 @48426 has 41 MA's), (6, 48462), (7, 48576), (9, 48636), (10, 48684), (11, 48687),

Gene: MulchExplorer_82 Start: 48590, Stop: 48922, Start Num: 5

Candidate Starts for MulchExplorer_82:

(Start: 2 @48551 has 155 MA's), (Start: 3 @48581 has 1 MA's), (Start: 5 @48590 has 41 MA's), (6, 48626), (7, 48740), (9, 48800), (10, 48848), (11, 48851),

Gene: MulchSalad_89 Start: 50988, Stop: 51320, Start Num: 5

Candidate Starts for MulchSalad_89:

(Start: 3 @50979 has 1 MA's), (Start: 5 @50988 has 41 MA's), (6, 51024), (7, 51138), (9, 51198), (10, 51246), (11, 51249),

Gene: Murai_23 Start: 10558, Stop: 10932, Start Num: 2

Candidate Starts for Murai_23:

(Start: 2 @10558 has 155 MA's), (Start: 3 @10588 has 1 MA's), (Start: 5 @10597 has 41 MA's), (6, 10633), (7, 10747), (9, 10807), (14, 10918),

Gene: NewHope4_87 Start: 48388, Stop: 48759, Start Num: 2

Candidate Starts for NewHope4_87:

(Start: 2 @48388 has 155 MA's), (Start: 3 @48418 has 1 MA's), (Start: 5 @48427 has 41 MA's), (6, 48463), (7, 48577), (9, 48637), (10, 48685), (11, 48688),

Gene: Nichirin_78 Start: 48121, Stop: 48453, Start Num: 5

Candidate Starts for Nichirin_78:

(Start: 2 @48082 has 155 MA's), (Start: 3 @48112 has 1 MA's), (Start: 5 @48121 has 41 MA's), (6, 48157), (7, 48271), (9, 48331), (10, 48379), (11, 48382),

Gene: NiebruSaylor_23 Start: 10558, Stop: 10932, Start Num: 2

Candidate Starts for NiebruSaylor_23:

(Start: 2 @10558 has 155 MA's), (Start: 3 @10588 has 1 MA's), (Start: 5 @10597 has 41 MA's), (6, 10633), (7, 10747), (9, 10807), (14, 10918),

Gene: Nivrat_82 Start: 50042, Stop: 50413, Start Num: 2

Candidate Starts for Nivrat_82:

(Start: 2 @50042 has 155 MA's), (Start: 3 @50072 has 1 MA's), (Start: 5 @50081 has 41 MA's), (6, 50117), (7, 50231), (9, 50291), (10, 50339), (11, 50342),

Gene: NormanBulbieJr_76 Start: 48668, Stop: 49039, Start Num: 2

Candidate Starts for NormanBulbieJr_76:

(Start: 2 @48668 has 155 MA's), (Start: 3 @48698 has 1 MA's), (Start: 5 @48707 has 41 MA's), (6, 48743), (7, 48857), (9, 48917), (10, 48965), (11, 48968),

Gene: Ochi17_83 Start: 48315, Stop: 48686, Start Num: 2

Candidate Starts for Ochi17_83:

(Start: 2 @48315 has 155 MA's), (Start: 3 @48345 has 1 MA's), (Start: 5 @48354 has 41 MA's), (6, 48390), (7, 48504), (9, 48564), (10, 48612), (11, 48615),

Gene: OctaviousRex_57 Start: 39853, Stop: 40224, Start Num: 2

Candidate Starts for OctaviousRex_57:

(Start: 2 @39853 has 155 MA's), (Start: 3 @39883 has 1 MA's), (Start: 5 @39892 has 41 MA's), (6, 39928), (7, 40042), (9, 40102), (10, 40150), (11, 40153),

Gene: OfUltron_85 Start: 48864, Stop: 49235, Start Num: 2

Candidate Starts for OfUltron_85:

(Start: 2 @48864 has 155 MA's), (Start: 3 @48894 has 1 MA's), (Start: 5 @48903 has 41 MA's), (6, 48939), (7, 49053), (9, 49113), (10, 49161), (11, 49164),

Gene: Ogotogo_52 Start: 36584, Stop: 36955, Start Num: 2

Candidate Starts for Ogotogo_52:

(Start: 2 @36584 has 155 MA's), (Start: 3 @36614 has 1 MA's), (Start: 5 @36623 has 41 MA's), (6, 36659), (7, 36773), (9, 36833), (10, 36881), (11, 36884),

Gene: Oksu_84 Start: 50414, Stop: 50746, Start Num: 5

Candidate Starts for Oksu_84:

(Start: 2 @50375 has 155 MA's), (Start: 3 @50405 has 1 MA's), (Start: 5 @50414 has 41 MA's), (6, 50450), (7, 50564), (9, 50624), (10, 50672), (11, 50675),

Gene: OlympiaSaint_83 Start: 49943, Stop: 50314, Start Num: 2

Candidate Starts for OlympiaSaint_83:

(Start: 2 @49943 has 155 MA's), (Start: 3 @49973 has 1 MA's), (Start: 5 @49982 has 41 MA's), (6, 50018), (7, 50132), (9, 50192), (10, 50240), (11, 50243),

Gene: OwlsT2W_82 Start: 48750, Stop: 49121, Start Num: 2

Candidate Starts for OwlsT2W_82:

(Start: 2 @48750 has 155 MA's), (Start: 3 @48780 has 1 MA's), (Start: 5 @48789 has 41 MA's), (6, 48825), (7, 48939), (8, 48996), (9, 48999), (10, 49047), (11, 49050),

Gene: PMC_80 Start: 48476, Stop: 48808, Start Num: 5

Candidate Starts for PMC_80:

(Start: 2 @48437 has 155 MA's), (Start: 3 @48467 has 1 MA's), (Start: 5 @48476 has 41 MA's), (6, 48512), (7, 48626), (9, 48686), (10, 48734), (11, 48737),

Gene: PR_69 Start: 50566, Stop: 50937, Start Num: 2

Candidate Starts for PR_69:

(Start: 2 @50566 has 155 MA's), (Start: 3 @50596 has 1 MA's), (Start: 5 @50605 has 41 MA's), (6, 50641), (7, 50755), (9, 50815), (10, 50863), (11, 50866),

Gene: Pacc40_75 Start: 49133, Stop: 49504, Start Num: 2

Candidate Starts for Pacc40_75:

(Start: 2 @49133 has 155 MA's), (Start: 3 @49163 has 1 MA's), (Start: 5 @49172 has 41 MA's), (6, 49208), (7, 49322), (9, 49382), (10, 49430), (11, 49433),

Gene: PatoPoderoso_76 Start: 49397, Stop: 49729, Start Num: 5

Candidate Starts for PatoPoderoso_76:

(Start: 2 @49358 has 155 MA's), (Start: 3 @49388 has 1 MA's), (Start: 5 @49397 has 41 MA's), (6, 49433), (7, 49547), (9, 49607), (10, 49655), (11, 49658),

Gene: Peeb_54 Start: 38273, Stop: 38644, Start Num: 2

Candidate Starts for Peeb_54:

(Start: 2 @38273 has 155 MA's), (Start: 3 @38303 has 1 MA's), (Start: 5 @38312 has 41 MA's), (6, 38348), (7, 38462), (9, 38522), (10, 38570), (11, 38573),

Gene: Peridot_87 Start: 50102, Stop: 50434, Start Num: 5

Candidate Starts for Peridot_87:

(Start: 2 @50063 has 155 MA's), (Start: 3 @50093 has 1 MA's), (Start: 5 @50102 has 41 MA's), (6, 50138), (7, 50252), (9, 50312), (10, 50360), (11, 50363),

Gene: Periodt_54 Start: 38465, Stop: 38836, Start Num: 2

Candidate Starts for Periodt_54:

(Start: 2 @38465 has 155 MA's), (Start: 3 @38495 has 1 MA's), (Start: 5 @38504 has 41 MA's), (6, 38540), (7, 38654), (9, 38714), (10, 38762), (11, 38765),

Gene: Phalconet_80 Start: 48566, Stop: 48937, Start Num: 2

Candidate Starts for Phalconet_80:

(Start: 2 @48566 has 155 MA's), (Start: 3 @48596 has 1 MA's), (Start: 5 @48605 has 41 MA's), (6, 48641), (7, 48755), (9, 48815), (10, 48863), (11, 48866),

Gene: Phanphagia_82 Start: 49940, Stop: 50311, Start Num: 2

Candidate Starts for Phanphagia_82:

(Start: 2 @49940 has 155 MA's), (Start: 3 @49970 has 1 MA's), (Start: 5 @49979 has 41 MA's), (6, 50015), (7, 50129), (9, 50189), (10, 50237), (11, 50240),

Gene: Phasih_76 Start: 47316, Stop: 47648, Start Num: 5

Candidate Starts for Phasih_76:

(Start: 2 @47277 has 155 MA's), (Start: 3 @47307 has 1 MA's), (Start: 5 @47316 has 41 MA's), (6, 47352), (7, 47466), (9, 47526), (10, 47574), (11, 47577),

Gene: Phatniss_80 Start: 48075, Stop: 48446, Start Num: 2

Candidate Starts for Phatniss_80:

(Start: 2 @48075 has 155 MA's), (Start: 3 @48105 has 1 MA's), (Start: 5 @48114 has 41 MA's), (6, 48150), (7, 48264), (9, 48324), (10, 48372), (11, 48375),

Gene: PhesterPhotato_87 Start: 49734, Stop: 50105, Start Num: 2

Candidate Starts for PhesterPhotato_87:

(Start: 2 @49734 has 155 MA's), (Start: 3 @49764 has 1 MA's), (Start: 5 @49773 has 41 MA's), (6, 49809), (7, 49923), (9, 49983), (10, 50031), (11, 50034),

Gene: Philus_86 Start: 51681, Stop: 52013, Start Num: 5

Candidate Starts for Philus_86:

(Start: 2 @51642 has 155 MA's), (Start: 3 @51672 has 1 MA's), (Start: 5 @51681 has 41 MA's), (6, 51717), (7, 51831), (9, 51891), (10, 51939), (11, 51942),

Gene: Phish_55 Start: 38643, Stop: 39014, Start Num: 2

Candidate Starts for Phish_55:

(Start: 2 @38643 has 155 MA's), (Start: 3 @38673 has 1 MA's), (Start: 5 @38682 has 41 MA's), (6, 38718), (7, 38832), (9, 38892), (10, 38940), (11, 38943),

Gene: Phreak_53 Start: 37648, Stop: 38019, Start Num: 2

Candidate Starts for Phreak_53:

(Start: 2 @37648 has 155 MA's), (Start: 3 @37678 has 1 MA's), (Start: 5 @37687 has 41 MA's), (6, 37723), (7, 37837), (9, 37897), (10, 37945), (11, 37948),

Gene: Piper2020_63 Start: 40188, Stop: 40559, Start Num: 2

Candidate Starts for Piper2020_63:

(Start: 2 @40188 has 155 MA's), (Start: 3 @40218 has 1 MA's), (Start: 5 @40227 has 41 MA's), (6, 40263), (7, 40377), (9, 40437), (10, 40485), (11, 40488),

Gene: Pippy_78 Start: 48138, Stop: 48509, Start Num: 2

Candidate Starts for Pippy_78:

(Start: 2 @48138 has 155 MA's), (Start: 3 @48168 has 1 MA's), (Start: 5 @48177 has 41 MA's), (6, 48213), (7, 48327), (9, 48387), (10, 48435), (11, 48438),

Gene: Plumbus_84 Start: 46988, Stop: 47329, Start Num: 3

Candidate Starts for Plumbus_84:

(Start: 2 @46958 has 155 MA's), (Start: 3 @46988 has 1 MA's), (Start: 5 @46997 has 41 MA's), (6, 47033), (7, 47147), (9, 47207), (10, 47255), (11, 47258),

Gene: Polo2Bam_93 Start: 48281, Stop: 48613, Start Num: 5

Candidate Starts for Polo2Bam_93:

(Start: 2 @48242 has 155 MA's), (Start: 3 @48272 has 1 MA's), (Start: 5 @48281 has 41 MA's), (6, 48317), (7, 48431), (9, 48491), (10, 48539), (11, 48542),

Gene: PopTart_75 Start: 46629, Stop: 47000, Start Num: 2

Candidate Starts for PopTart_75:

(Start: 2 @46629 has 155 MA's), (Start: 3 @46659 has 1 MA's), (Start: 5 @46668 has 41 MA's), (6, 46704), (7, 46818), (9, 46878), (10, 46926), (11, 46929),

Gene: Priscilla_78 Start: 48805, Stop: 49137, Start Num: 5

Candidate Starts for Priscilla_78:

(Start: 2 @48766 has 155 MA's), (Start: 3 @48796 has 1 MA's), (Start: 5 @48805 has 41 MA's), (6, 48841), (7, 48955), (9, 49015), (10, 49063), (11, 49066),

Gene: QuickMath_82 Start: 49171, Stop: 49503, Start Num: 5

Candidate Starts for QuickMath_82:

(Start: 2 @49132 has 155 MA's), (Start: 3 @49162 has 1 MA's), (Start: 5 @49171 has 41 MA's), (6, 49207), (7, 49321), (9, 49381), (10, 49429), (11, 49432),

Gene: Quico_89 Start: 50922, Stop: 51254, Start Num: 5

Candidate Starts for Quico_89:

(Start: 2 @50883 has 155 MA's), (Start: 3 @50913 has 1 MA's), (Start: 5 @50922 has 41 MA's), (6, 50958), (7, 51072), (9, 51132), (10, 51180), (11, 51183),

Gene: Remy19_56 Start: 38643, Stop: 39014, Start Num: 2

Candidate Starts for Remy19_56:

(Start: 2 @38643 has 155 MA's), (Start: 3 @38673 has 1 MA's), (Start: 5 @38682 has 41 MA's), (6, 38718), (7, 38832), (9, 38892), (10, 38940), (11, 38943),

Gene: Rialto_87 Start: 49926, Stop: 50297, Start Num: 2

Candidate Starts for Rialto_87:

(Start: 2 @49926 has 155 MA's), (Start: 3 @49956 has 1 MA's), (Start: 5 @49965 has 41 MA's), (6, 50001), (7, 50115), (9, 50175), (10, 50223), (11, 50226),

Gene: Rita_90 Start: 52291, Stop: 52662, Start Num: 2

Candidate Starts for Rita_90:

(Start: 2 @52291 has 155 MA's), (Start: 3 @52321 has 1 MA's), (Start: 5 @52330 has 41 MA's), (6, 52366), (7, 52480), (9, 52540), (10, 52588), (11, 52591),

Gene: Rockne_84 Start: 48449, Stop: 48820, Start Num: 2

Candidate Starts for Rockne_84:

(Start: 2 @48449 has 155 MA's), (Start: 3 @48479 has 1 MA's), (Start: 5 @48488 has 41 MA's), (6, 48524), (7, 48638), (9, 48698), (10, 48746), (11, 48749),

Gene: RockyHorror_81 Start: 47659, Stop: 47991, Start Num: 5

Candidate Starts for RockyHorror_81:

(Start: 2 @47620 has 155 MA's), (Start: 3 @47650 has 1 MA's), (Start: 5 @47659 has 41 MA's), (6, 47695), (7, 47809), (9, 47869), (10, 47917), (11, 47920),

Gene: Royals2015_88 Start: 49231, Stop: 49602, Start Num: 2

Candidate Starts for Royals2015_88:

(Start: 2 @49231 has 155 MA's), (Start: 3 @49261 has 1 MA's), (Start: 5 @49270 has 41 MA's), (6, 49306), (7, 49420), (9, 49480), (10, 49528), (11, 49531),

Gene: Ryadel_25 Start: 11140, Stop: 11514, Start Num: 2

Candidate Starts for Ryadel_25:

(Start: 2 @11140 has 155 MA's), (Start: 3 @11170 has 1 MA's), (Start: 5 @11179 has 41 MA's), (6, 11215), (7, 11329), (9, 11389), (14, 11500),

Gene: Saal_79 Start: 49849, Stop: 50220, Start Num: 2

Candidate Starts for Saal_79:

(Start: 2 @49849 has 155 MA's), (Start: 3 @49879 has 1 MA's), (Start: 5 @49888 has 41 MA's), (6, 49924), (7, 50038), (9, 50098), (10, 50146), (11, 50149),

Gene: Sabbb_85 Start: 47362, Stop: 47733, Start Num: 2

Candidate Starts for Sabbb_85:

(Start: 2 @47362 has 155 MA's), (Start: 3 @47392 has 1 MA's), (Start: 5 @47401 has 41 MA's), (6, 47437), (7, 47551), (9, 47611), (10, 47659), (11, 47662),

Gene: SassyB_75 Start: 46629, Stop: 47000, Start Num: 2

Candidate Starts for SassyB_75:

(Start: 2 @46629 has 155 MA's), (Start: 3 @46659 has 1 MA's), (Start: 5 @46668 has 41 MA's), (6, 46704), (7, 46818), (9, 46878), (10, 46926), (11, 46929),

Gene: SchoolBus_22 Start: 10327, Stop: 10701, Start Num: 2

Candidate Starts for SchoolBus_22:

(Start: 2 @10327 has 155 MA's), (Start: 3 @10357 has 1 MA's), (Start: 5 @10366 has 41 MA's), (6, 10402), (7, 10516), (9, 10576), (14, 10687),

Gene: Schuy_24 Start: 10719, Stop: 11093, Start Num: 2

Candidate Starts for Schuy_24:

(Start: 2 @10719 has 155 MA's), (Start: 3 @10749 has 1 MA's), (Start: 5 @10758 has 41 MA's), (6, 10794), (7, 10908), (9, 10968), (14, 11079),

Gene: Scitech_53 Start: 37539, Stop: 37871, Start Num: 5

Candidate Starts for Scitech_53:

(Start: 2 @37500 has 155 MA's), (Start: 3 @37530 has 1 MA's), (Start: 5 @37539 has 41 MA's), (6, 37575), (7, 37689), (9, 37749), (10, 37797), (11, 37800),

Gene: SeaLumen_90 Start: 48281, Stop: 48613, Start Num: 5

Candidate Starts for SeaLumen_90:

(Start: 2 @48242 has 155 MA's), (Start: 3 @48272 has 1 MA's), (Start: 5 @48281 has 41 MA's), (6, 48317), (7, 48431), (9, 48491), (10, 48539), (11, 48542),

Gene: Seabastian_85 Start: 48865, Stop: 49236, Start Num: 2

Candidate Starts for Seabastian_85:

(Start: 2 @48865 has 155 MA's), (Start: 3 @48895 has 1 MA's), (Start: 5 @48904 has 41 MA's), (6, 48940), (7, 49054), (9, 49114), (10, 49162), (11, 49165),

Gene: Seagreen_82 Start: 49771, Stop: 50103, Start Num: 5

Candidate Starts for Seagreen_82:

(Start: 2 @49732 has 155 MA's), (Start: 3 @49762 has 1 MA's), (Start: 5 @49771 has 41 MA's), (6, 49807), (7, 49921), (9, 49981), (10, 50029), (11, 50032),

Gene: ShaboiShabazz_55 Start: 38643, Stop: 39014, Start Num: 2

Candidate Starts for ShaboiShabazz_55:

(Start: 2 @38643 has 155 MA's), (Start: 3 @38673 has 1 MA's), (Start: 5 @38682 has 41 MA's), (6, 38718), (7, 38832), (9, 38892), (10, 38940), (11, 38943),

Gene: ShiLan_83 Start: 51456, Stop: 51827, Start Num: 2

Candidate Starts for ShiLan_83:

(Start: 2 @51456 has 155 MA's), (Start: 3 @51486 has 1 MA's), (Start: 5 @51495 has 41 MA's), (6, 51531), (7, 51645), (9, 51705), (10, 51753), (11, 51756),

Gene: Shida_23 Start: 10624, Stop: 10998, Start Num: 2

Candidate Starts for Shida_23:

(Start: 2 @10624 has 155 MA's), (Start: 3 @10654 has 1 MA's), (Start: 5 @10663 has 41 MA's), (6, 10699), (7, 10813), (9, 10873), (14, 10984),

Gene: Sizemore_59 Start: 39926, Stop: 40297, Start Num: 2

Candidate Starts for Sizemore_59:

(Start: 2 @39926 has 155 MA's), (Start: 3 @39956 has 1 MA's), (Start: 5 @39965 has 41 MA's), (6, 40001), (7, 40115), (9, 40175), (10, 40223), (11, 40226),

Gene: Slim_85 Start: 49146, Stop: 49517, Start Num: 2

Candidate Starts for Slim_85:

(Start: 2 @49146 has 155 MA's), (Start: 3 @49176 has 1 MA's), (Start: 5 @49185 has 41 MA's), (6, 49221), (7, 49335), (9, 49395), (10, 49443), (11, 49446),

Gene: Spoonbill_79 Start: 47408, Stop: 47740, Start Num: 5

Candidate Starts for Spoonbill_79:

(Start: 2 @47369 has 155 MA's), (Start: 3 @47399 has 1 MA's), (Start: 5 @47408 has 41 MA's), (6, 47444), (7, 47558), (9, 47618), (10, 47666), (11, 47669),

Gene: Starcevich_83 Start: 50629, Stop: 51000, Start Num: 2

Candidate Starts for Starcevich_83:

(Start: 2 @50629 has 155 MA's), (Start: 3 @50659 has 1 MA's), (Start: 5 @50668 has 41 MA's), (6, 50704), (7, 50818), (9, 50878), (10, 50926), (11, 50929),

Gene: Strokeseat_78 Start: 46785, Stop: 47156, Start Num: 2

Candidate Starts for Strokeseat_78:

(Start: 2 @46785 has 155 MA's), (Start: 3 @46815 has 1 MA's), (Start: 5 @46824 has 41 MA's), (6, 46860), (7, 46974), (9, 47034), (10, 47082), (11, 47085),

Gene: SwagPigglett_84 Start: 50985, Stop: 51356, Start Num: 2

Candidate Starts for SwagPigglett_84:

(Start: 2 @50985 has 155 MA's), (Start: 3 @51015 has 1 MA's), (Start: 5 @51024 has 41 MA's), (6, 51060), (7, 51174), (9, 51234), (10, 51282), (11, 51285),

Gene: Sweets_58 Start: 39932, Stop: 40303, Start Num: 2

Candidate Starts for Sweets_58:

(Start: 2 @39932 has 155 MA's), (Start: 3 @39962 has 1 MA's), (Start: 5 @39971 has 41 MA's), (6, 40007), (7, 40121), (9, 40181), (10, 40229), (11, 40232),

Gene: Taj_90 Start: 51483, Stop: 51854, Start Num: 2

Candidate Starts for Taj_90:

(Start: 2 @51483 has 155 MA's), (Start: 3 @51513 has 1 MA's), (Start: 5 @51522 has 41 MA's), (6, 51558), (7, 51672), (9, 51732), (10, 51780), (11, 51783),

Gene: Taptic_68 Start: 49502, Stop: 49873, Start Num: 2

Candidate Starts for Taptic_68:

(Start: 2 @49502 has 155 MA's), (Start: 3 @49532 has 1 MA's), (Start: 5 @49541 has 41 MA's), (6, 49577), (7, 49691), (9, 49751), (10, 49799), (11, 49802),

Gene: ThetaBob_82 Start: 48204, Stop: 48536, Start Num: 5

Candidate Starts for ThetaBob_82:

(Start: 2 @48165 has 155 MA's), (Start: 3 @48195 has 1 MA's), (Start: 5 @48204 has 41 MA's), (6, 48240), (7, 48354), (9, 48414), (10, 48462), (11, 48465),

Gene: TomBrady_56 Start: 38644, Stop: 39015, Start Num: 2

Candidate Starts for TomBrady_56:

(Start: 2 @38644 has 155 MA's), (Start: 3 @38674 has 1 MA's), (Start: 5 @38683 has 41 MA's), (6, 38719), (7, 38833), (9, 38893), (10, 38941), (11, 38944),

Gene: TootsiePop_60 Start: 39332, Stop: 39664, Start Num: 5

Candidate Starts for TootsiePop_60:

(Start: 2 @39293 has 155 MA's), (Start: 3 @39323 has 1 MA's), (Start: 5 @39332 has 41 MA's), (6, 39368), (7, 39482), (9, 39542), (10, 39590), (11, 39593),

Gene: Tortoise12_56 Start: 36488, Stop: 36859, Start Num: 2

Candidate Starts for Tortoise12_56:

(Start: 2 @36488 has 155 MA's), (Start: 3 @36518 has 1 MA's), (Start: 5 @36527 has 41 MA's), (6, 36563), (7, 36677), (9, 36737), (10, 36785), (11, 36788),

Gene: Totinger_85 Start: 49425, Stop: 49796, Start Num: 2

Candidate Starts for Totinger_85:

(Start: 2 @49425 has 155 MA's), (Start: 3 @49455 has 1 MA's), (Start: 5 @49464 has 41 MA's), (6, 49500), (7, 49614), (9, 49674), (10, 49722), (11, 49725),

Gene: Tweety_84 Start: 50560, Stop: 50931, Start Num: 2

Candidate Starts for Tweety_84:

(Start: 2 @50560 has 155 MA's), (Start: 3 @50590 has 1 MA's), (Start: 5 @50599 has 41 MA's), (6, 50635), (7, 50749), (9, 50809), (10, 50857), (11, 50860),

Gene: Typha_50 Start: 37590, Stop: 37961, Start Num: 2

Candidate Starts for Typha_50:

(Start: 2 @37590 has 155 MA's), (Start: 3 @37620 has 1 MA's), (Start: 5 @37629 has 41 MA's), (6, 37665), (7, 37779), (9, 37839), (10, 37887), (11, 37890),

Gene: UncleRicky_82 Start: 48323, Stop: 48694, Start Num: 2

Candidate Starts for UncleRicky_82:

(Start: 2 @48323 has 155 MA's), (Start: 3 @48353 has 1 MA's), (Start: 5 @48362 has 41 MA's), (6, 48398), (7, 48512), (9, 48572), (10, 48620), (11, 48623),

Gene: VRedHorse_82 Start: 46932, Stop: 47303, Start Num: 2

Candidate Starts for VRedHorse_82:

(Start: 2 @46932 has 155 MA's), (Start: 3 @46962 has 1 MA's), (Start: 5 @46971 has 41 MA's), (6, 47007), (7, 47121), (9, 47181), (10, 47229), (11, 47232),

Gene: Vagabond_23 Start: 10601, Stop: 10975, Start Num: 2

Candidate Starts for Vagabond_23:

(Start: 2 @10601 has 155 MA's), (Start: 3 @10631 has 1 MA's), (Start: 5 @10640 has 41 MA's), (6, 10676), (7, 10790), (9, 10850), (14, 10961),

Gene: Violac_85 Start: 51078, Stop: 51410, Start Num: 5

Candidate Starts for Violac_85:

(Start: 2 @51039 has 155 MA's), (Start: 3 @51069 has 1 MA's), (Start: 5 @51078 has 41 MA's), (6, 51114), (7, 51228), (9, 51288), (10, 51336), (11, 51339),

Gene: Vivum_83 Start: 51354, Stop: 51686, Start Num: 5

Candidate Starts for Vivum_83:

(Start: 2 @51315 has 155 MA's), (Start: 3 @51345 has 1 MA's), (Start: 5 @51354 has 41 MA's), (6, 51390), (7, 51504), (9, 51564), (10, 51612), (11, 51615),

Gene: Vorrps_23 Start: 10558, Stop: 10932, Start Num: 2

Candidate Starts for Vorrps_23:

(Start: 2 @10558 has 155 MA's), (Start: 3 @10588 has 1 MA's), (Start: 5 @10597 has 41 MA's), (6, 10633), (7, 10747), (9, 10807), (14, 10918),

Gene: Wee_89 Start: 51559, Stop: 51930, Start Num: 2

Candidate Starts for Wee_89:

(Start: 2 @51559 has 155 MA's), (Start: 3 @51589 has 1 MA's), (Start: 5 @51598 has 41 MA's), (6, 51634), (7, 51748), (9, 51808), (10, 51856), (11, 51859),

Gene: Whouxphf_78 Start: 48751, Stop: 49122, Start Num: 2

Candidate Starts for Whouxphf_78:

(Start: 2 @48751 has 155 MA's), (Start: 3 @48781 has 1 MA's), (Start: 5 @48790 has 41 MA's), (6, 48826), (7, 48940), (9, 49000), (10, 49048), (11, 49051),

Gene: Wildflower_23 Start: 10581, Stop: 10955, Start Num: 2

Candidate Starts for Wildflower_23:

(Start: 2 @10581 has 155 MA's), (Start: 3 @10611 has 1 MA's), (Start: 5 @10620 has 41 MA's), (6, 10656), (7, 10770), (9, 10830), (14, 10941),

Gene: Winget_23 Start: 10600, Stop: 10974, Start Num: 2

Candidate Starts for Winget_23:

(Start: 2 @10600 has 155 MA's), (Start: 3 @10630 has 1 MA's), (Start: 5 @10639 has 41 MA's), (6, 10675), (7, 10789), (9, 10849), (14, 10960),

Gene: XFactor_78 Start: 48679, Stop: 49011, Start Num: 5

Candidate Starts for XFactor_78:

(Start: 2 @48640 has 155 MA's), (Start: 3 @48670 has 1 MA's), (Start: 5 @48679 has 41 MA's), (6, 48715), (7, 48829), (9, 48889), (10, 48937), (11, 48940),

Gene: Yorick_76 Start: 49589, Stop: 49921, Start Num: 5

Candidate Starts for Yorick_76:

(Start: 3 @49580 has 1 MA's), (Start: 5 @49589 has 41 MA's), (6, 49625), (7, 49739), (9, 49799), (10, 49847), (11, 49850),

Gene: Yoshi_101 Start: 51721, Stop: 52092, Start Num: 2

Candidate Starts for Yoshi_101:

(Start: 2 @51721 has 155 MA's), (Start: 3 @51751 has 1 MA's), (Start: 5 @51760 has 41 MA's), (6, 51796), (7, 51910), (9, 51970), (10, 52018), (11, 52021),

Gene: Zebo_22 Start: 10327, Stop: 10701, Start Num: 2

Candidate Starts for Zebo_22:

(Start: 2 @10327 has 155 MA's), (Start: 3 @10357 has 1 MA's), (Start: 5 @10366 has 41 MA's), (6, 10402), (7, 10516), (9, 10576), (14, 10687),

Gene: ZenTime222_54 Start: 38652, Stop: 39023, Start Num: 2

Candidate Starts for ZenTime222_54:

(Start: 2 @38652 has 155 MA's), (Start: 3 @38682 has 1 MA's), (Start: 5 @38691 has 41 MA's), (6, 38727), (7, 38841), (9, 38901), (10, 38949), (11, 38952),

Gene: Zerg_78 Start: 48274, Stop: 48645, Start Num: 2

Candidate Starts for Zerg_78:

(Start: 2 @48274 has 155 MA's), (Start: 3 @48304 has 1 MA's), (Start: 5 @48313 has 41 MA's), (6, 48349), (7, 48463), (9, 48523), (10, 48571), (11, 48574),

Gene: ZoMa_57 Start: 39937, Stop: 40308, Start Num: 2

Candidate Starts for ZoMa_57:

(Start: 2 @39937 has 155 MA's), (Start: 3 @39967 has 1 MA's), (Start: 5 @39976 has 41 MA's), (6, 40012), (7, 40126), (9, 40186), (10, 40234), (11, 40237),

Gene: Zombie_57 Start: 39158, Stop: 39529, Start Num: 2

Candidate Starts for Zombie_57:

(Start: 2 @39158 has 155 MA's), (Start: 3 @39188 has 1 MA's), (Start: 5 @39197 has 41 MA's), (6, 39233), (7, 39347), (9, 39407), (10, 39455), (11, 39458),