

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 308128 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308128 has 186 members, 29 are drafts.

Phages represented in each track:

- Track 1 : CindyLou_16, SilverDipper_17, Shnickers_16, Loanshark_17, Megamind_17, JPickles_16, BackyardAgain_15, Daffodil_19, Ngannou_16, Babyland_16, FoxtrotP1_18, Matsumoto_16, Atlantean_16, StubbySaigey_17, Roots515_17, Khaleesi_17, Chargie21_16, SVoro_17, Derek_17, Catera_16, LifeSavor_17, ChaylaJr_16, Audrick_18, MikeLiesIn_18, Kboogie_17, Asterius_19, YemiJoy2021_18, EmmaElysia_16, Bonray_17, InigoMontoya_18, JustHall_16, Blackbrain_16, Delylah_20, Amataga_16, Erdmann_18, Jedediah_17, Ablatia_16, DrPhinkDaddy_17, NedWong_18, Willis_18, GlutenPhree_17, Zalkecks_19, Darko_16, Trinitium_16, Wally_16, Bread_18, ErnieJ_20, SrishMeg2525_17, ParkTD_17, McGee_17, Fludd_16, Delilah_17, ZygoTaiga_18, ChickenPhender_16, Janiyra_16, Izajani_18, Flabslab_21, Shelob_20, Yucca_17, Burrough_18, Zeenon_20, Latch_16, Morizzled23_16, EmToTheThree_20, Issimir_17, Tortoise16_15, Chomp_16, BananaFence_18, Basquiat_16, Littleton_17, Gamgam_16, Capablanca_18, McWolfish_17, Phlegm_18, Maby2021_18, Momo_16, Rahel_16, Gabriel_17, YoungMoneyMata_17, Ading_16, FudgeTart_18, Salacia_19, Bangla1971_16, OrediggerDelux_17, ShiaLabeouf_16, Lee7_17, EasyJones_17, Teardrop_16, PurduePete_17
- Track 2 : Moby_13, Moiqah_13
- Track 3 : Labradorite_15, Fixie_15, Patter_16, Naija_16, ScottMcG_19, Belieber_15, TinyTim_17, Dessert_15, SoilZilla_16, Gizmo_19, Napoleon13_16, Bowman_17, Essence_16, ValleyTerrace_16, ArcherS7_16, Ewok_17, Bipolarisk_17, Pleione_19, Dietrick_14, Guwapp_16, Melpomini_16, Turret_16, Spec_15, Jessibeth14_17, BobaPhatt_15, Quasimodo_16, Phusco_16, Ghost_17, Norm_17, Ava3_18, Fongie_17, Pivoine_16, Breeniome_17, Substance289_15, Shrimp_17, Adlitam_16
- Track 4 : BeanWater_13, Halldule_14, Koguma_14, Nidhogg_19, Naval22_20, MoMoMixon_19
- Track 5 : Concombre_17, JigglyPuff_18, Demodog_16
- Track 6 : Grasshills_21
- Track 7 : Lunareta_17, Montpel_17
- Track 8 : EggyFarm_21, Nappy_19, BigCity_21, Mangeria_20
- Track 9 : Tonenili_19
- Track 10 : Shifa_16, HyRo_17
- Track 11 : Stubby_17
- Track 12 : Jemmno_16, SmallFry_16, Jaygup_16
- Track 13 : Dandelion_22
- Track 14 : I3_19, JayJay_20
- Track 15 : Iota_15

- Track 16 : Vortrix_20
- Track 17 : Cactojaque_15
- Track 18 : Maturis_18
- Track 19 : Reindeer_86
- Track 20 : Auspice_86, FreakyGoo_88, Dulcita_87, IPhane7_85, Bricole_85, Izel_87, TyDawg_86, Diminimus_87, LilhomieP_86, PegLeg_85, RoseMarie_92, Bongo_86, Skinny_90
- Track 21 : KleverKiS_85, Glaske16_87, SlimJimmy_85
- Track 22 : TpudiCK_88
- Track 23 : GardenSalsa_98, MrMagoo_99, Estes_97
- Track 24 : Aziz_98, GenevaB15_100
- Track 25 : Rey_97
- Track 26 : Nanosmite_91
- Track 27 : Azrael100_134, EniyanLRS_135, Cosmo_142
- Track 28 : Mbo2_64

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

The start number called the most often in the published annotations is 25, it was called in 108 of the 157 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ablatia_16, Ading_16, Amataga_16, Asterius_19, Atlantean_16, Audrick_18, Azrael100_134, Babyland_16, BackyardAgain_15, BananaFence_18, Bangla1971_16, Basquiat_16, BeanWater_13, BigCity_21, Blackbrain_16, Bonray_17, Bread_18, Burrough_18, Cactojaque_15, Capablanca_18, Catera_16, Chargie21_16, ChaylaJr_16, ChickenPhender_16, Chomp_16, CindyLou_16, Cosmo_142, Daffodil_19, Darko_16, Delilah_17, Delylah_20, Derek_17, DrPhinkDaddy_17, EasyJones_17, EggyFarm_21, EmToTheThree_20, EmmaElysia_16, EniyanLRS_135, Erdmann_18, ErnieJ_20, Flabslab_21, Fludd_16, FoxtrotP1_18, FudgeTart_18, Gabriel_17, Gangam_16, GlutenPhree_17, Halldule_14, HyRo_17, I3_19, InigoMontoya_18, Iota_15, Issimir_17, Izajani_18, JPickles_16, Janiyra_16, JayJay_20, Jaygup_16, Jedediah_17, Jemmno_16, JustHall_16, Kboogie_17, Khaleesi_17, Koguma_14, Latch_16, Lee7_17, LifeSavor_17, Littleton_17, Loanshark_17, Maby2021_18, Mangeria_20, Matsumoto_16, Maturis_18, McGee_17, McWolfish_17, Megamind_17, MikeLiesIn_18, MoMoMixon_19, Momo_16, Morizzled23_16, Nappy_19, Naval22_20, NedWong_18, Ngannou_16, Nidhogg_19, OrediggerDelux_17, ParkTD_17, Phlegm_18, PurduePete_17, Rahel_16, Roots515_17, SVoro_17, Salacia_19, Shelob_20, ShiaLabeouf_16, Shifa_16, Shnickers_16, SilverDipper_17, SmallFry_16, SrishMeg2525_17, StubbySaigey_17, Stubby_17, Teardrop_16, Tonenili_19, Tortoise16_15, Trinitium_16, Vortrix_20, Wally_16, Willis_18, YemiJoy2021_18, YoungMoneyMata_17, Yucca_17, Zalkecks_19, Zeenon_20, ZygoTaiga_18,

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

- Adlitam_16, ArcherS7_16, Ava3_18, Belieber_15, Bipolarisk_17, BobaPhatt_15, Bowman_17, Breeniome_17, Concombre_17, Dandelion_22, Demodog_16, Dessert_15, Dietrick_14, Essence_16, Ewok_17, Fixie_15, Fongie_17, Ghost_17, Gizmo_19, Grasshills_21, Guwapp_16, Jessibeth14_17, JigglyPuff_18, Labradorite_15, Lunareta_17, Melpomini_16, Moby_13, Moiqah_13, Montpel_17,

Naija_16, Napoleon13_16, Norm_17, Patter_16, Phusco_16, Pivoine_16, Pleione_19, Quasimodo_16, ScottMcG_19, Shrimp_17, SoilZilla_16, Spec_15, Substance289_15, TinyTim_17, Turret_16, ValleyTerrace_16,

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

• Auspice_86, Aziz_98, Bongo_86, Bricole_85, Diminimus_87, Dulcita_87, Estes_97, FreakyGoo_88, GardenSalsa_98, GenevaB15_100, Glaske16_87, IPhane7_85, Izel_87, KleverKiS_85, LilhomieP_86, Mbo2_64, MrMagoo_99, Nanosmite_91, PegLeg_85, Reindeer_86, Rey_97, RoseMarie_92, Skinny_90, SlimJimmy_85, TpudiCK_88, TyDawg_86,

Summary by start number:

Start 17:

- Found in 25 of 186 (13.4%) of genes in pham
- Manual Annotations of this start: 22 of 157
- Called 96.0% of time when present
- Phage (with cluster) where this start called: Auspice_86 (M1), Aziz_98 (M2), Bongo_86 (M1), Bricole_85 (M1), Diminimus_87 (M1), Dulcita_87 (M1), Estes_97 (M2), FreakyGoo_88 (M1), GardenSalsa_98 (M2), GenevaB15_100 (M2), Glaske16_87 (M1), IPhane7_85 (M1), Izel_87 (M1), KleverKiS_85 (M1), LilhomieP_86 (M1), MrMagoo_99 (M2), Nanosmite_91 (M3), PegLeg_85 (M1), Reindeer_86 (M1), Rey_97 (M2), RoseMarie_92 (M1), Skinny_90 (M1), SlimJimmy_85 (M1), TyDawg_86 (M1),

Start 19:

- Found in 1 of 186 (0.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mbo2_64 (singleton),

Start 20:

- Found in 25 of 186 (13.4%) of genes in pham
- No Manual Annotations of this start.
- Called 4.0% of time when present
- Phage (with cluster) where this start called: TpudiCK_88 (M1),

Start 25:

- Found in 160 of 186 (86.0%) of genes in pham
- Manual Annotations of this start: 108 of 157
- Called 71.9% of time when present
- Phage (with cluster) where this start called: Ablatia_16 (C1), Ading_16 (C1), Amataga_16 (C1), Asterius_19 (C1), Atlantean_16 (C1), Audrick_18 (C1), Azrael100_134 (V), Babyland_16 (C1), BackyardAgain_15 (C1), BananaFence_18 (C1), Bangla1971_16 (C1), Basquiat_16 (C1), BeanWater_13 (C1), BigCity_21 (C1), Blackbrain_16 (C1), Bonray_17 (C1), Bread_18 (C1), Burrough_18 (C1), Cactojaque_15 (C1), Capablanca_18 (C1), Catera_16 (C1), Chargie21_16 (C1), ChaylaJr_16 (C1), ChickenPhender_16 (C1), Chomp_16 (C1), CindyLou_16 (C1), Cosmo_142 (V), Daffodil_19 (C1), Darko_16 (C1), Delilah_17 (C1), Delylah_20 (C1), Derek_17 (C1), DrPhinkDaddy_17 (C1), EasyJones_17 (C1), EggyFarm_21 (C1), EmToTheThree_20 (C1), EmmaElysia_16 (C1), EniyanLRS_135 (V), Erdmann_18 (C1), ErnieJ_20 (C1), Flabslab_21 (C1), Fludd_16 (C1), FoxtrotP1_18 (C1), FudgeTart_18 (C1), Gabriel_17 (C1), Gamgam_16 (C1), GlutenPhree_17 (C1),

Halldule_14 (C1), HyRo_17 (C1), I3_19 (C1), InigoMontoya_18 (C1), Iota_15 (C1), Issimir_17 (C1), Izajani_18 (C1), JPickles_16 (C1), Janiyra_16 (C1), JayJay_20 (C1), Jaygup_16 (C1), Jedediah_17 (C1), Jemmno_16 (C1), JustHall_16 (C1), Kboogie_17 (C1), Khaleesi_17 (C1), Koguma_14 (C1), Latch_16 (C1), Lee7_17 (C1), LifeSavor_17 (C1), Littleton_17 (C1), Loanshark_17 (C1), Maby2021_18 (C1), Mangeria_20 (C1), Matsumoto_16 (C1), Maturis_18 (C1), McGee_17 (C1), McWolfish_17 (C1), Megamind_17 (C1), MikeLiesIn_18 (C1), MoMoMixon_19 (C1), Momo_16 (C1), Morizzled23_16 (C1), Nappy_19 (C1), Naval22_20 (C1), NedWong_18 (C1), Ngannou_16 (C1), Nidhogg_19 (C1), OrediggerDelux_17 (C1), ParkTD_17 (C1), Phlegm_18 (C1), PurduePete_17 (C1), Rahel_16 (C1), Roots515_17 (C1), SVoro_17 (C1), Salacia_19 (C1), Shelob_20 (C1), ShiaLabeouf_16 (C1), Shifa_16 (C1), Shnickers_16 (C1), SilverDipper_17 (C1), SmallFry_16 (C1), SrishMeg2525_17 (C1), StubbySaigey_17 (C1), Stubby_17 (C1), Teardrop_16 (C1), Tonenili_19 (C1), Tortoise16_15 (C1), Trinitium_16 (C1), Vortex_20 (C1), Wally_16 (C1), Willis_18 (C1), YemiJoy2021_18 (C1), YoungMoneyMata_17 (C1), Yucca_17 (C1), Zalkecks_19 (C1), Zeenon_20 (C1), ZygoTaiga_18 (C1),

Start 26:

- Found in 157 of 186 (84.4%) of genes in pham
- Manual Annotations of this start: 27 of 157
- Called 28.7% of time when present
- Phage (with cluster) where this start called: Adlitam_16 (C1), ArcherS7_16 (C1), Ava3_18 (C1), Belieber_15 (C1), Bipolarisk_17 (C1), BobaPhatt_15 (C1), Bowman_17 (C1), Breeniome_17 (C1), Concombre_17 (C1), Dandelion_22 (C1), Demodog_16 (C1), Dessert_15 (C1), Dietrick_14 (C1), Essence_16 (C1), Ewok_17 (C1), Fixie_15 (C1), Fongie_17 (C1), Ghost_17 (C1), Gizmo_19 (C1), Grasshills_21 (C1), Guwapp_16 (C1), Jessibeth14_17 (C1), JigglyPuff_18 (C1), Labradorite_15 (C1), Lunareta_17 (C1), Melpomini_16 (C1), Moby_13 (C1), Moiqah_13 (C1), Montpel_17 (C1), Naija_16 (C1), Napoleon13_16 (C1), Norm_17 (C1), Patter_16 (C1), Phusco_16 (C1), Pivoine_16 (C1), Pleione_19 (C1), Quasimodo_16 (C1), ScottMcG_19 (C1), Shrimp_17 (C1), SoilZilla_16 (C1), Spec_15 (C1), Substance289_15 (C1), TinyTim_17 (C1), Turret_16 (C1), ValleyTerrace_16 (C1),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, M2, M1, M3, V, C1,

Info for manual annotations of cluster C1:

- Start number 25 was manually annotated 105 times for cluster C1.
- Start number 26 was manually annotated 27 times for cluster C1.

Info for manual annotations of cluster M1:

- Start number 17 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 17 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 17 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster V:

- Start number 25 was manually annotated 3 times for cluster V.

Gene Information:

Gene: Ablatia_16 Start: 4981, Stop: 5220, Start Num: 25

Candidate Starts for Ablatia_16:

(4, 4780), (5, 4792), (7, 4852), (9, 4864), (12, 4918), (Start: 25 @4981 has 108 MA's), (Start: 26 @4987 has 27 MA's), (33, 5065), (39, 5155), (42, 5170),

Gene: Ading_16 Start: 4958, Stop: 5197, Start Num: 25

Candidate Starts for Ading_16:

(4, 4757), (5, 4769), (7, 4829), (9, 4841), (12, 4895), (Start: 25 @4958 has 108 MA's), (Start: 26 @4964 has 27 MA's), (33, 5042), (39, 5132), (42, 5147),

Gene: Adlitam_16 Start: 4981, Stop: 5214, Start Num: 26

Candidate Starts for Adlitam_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Amataga_16 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for Amataga_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: ArcherS7_16 Start: 4981, Stop: 5214, Start Num: 26

Candidate Starts for ArcherS7_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Asterius_19 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for Asterius_19:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Atlantean_16 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for Atlantean_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Audrick_18 Start: 4958, Stop: 5197, Start Num: 25

Candidate Starts for Audrick_18:

(4, 4757), (5, 4769), (7, 4829), (9, 4841), (12, 4895), (Start: 25 @4958 has 108 MA's), (Start: 26 @4964 has 27 MA's), (33, 5042), (39, 5132), (42, 5147),

Gene: Auspice_86 Start: 53172, Stop: 53417, Start Num: 17

Candidate Starts for Auspice_86:

(Start: 17 @53172 has 22 MA's), (20, 53184), (22, 53193), (27, 53220), (32, 53295), (36, 53352), (38, 53379), (43, 53400),

Gene: Ava3_18 Start: 6050, Stop: 6283, Start Num: 26

Candidate Starts for Ava3_18:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Aziz_98 Start: 55391, Stop: 55651, Start Num: 17

Candidate Starts for Aziz_98:

(11, 55370), (Start: 17 @55391 has 22 MA's), (20, 55403), (21, 55409), (22, 55412), (31, 55499), (32, 55505), (38, 55589), (40, 55595), (42, 55607), (43, 55610),

Gene: Azrael100_134 Start: 66616, Stop: 66834, Start Num: 25

Candidate Starts for Azrael100_134:

(Start: 25 @66616 has 108 MA's), (37, 66772), (41, 66790), (42, 66799), (43, 66802), (45, 66814), (46, 66823),

Gene: Babyland_16 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for Babyland_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: BackyardAgain_15 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for BackyardAgain_15:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: BananaFence_18 Start: 5980, Stop: 6219, Start Num: 25

Candidate Starts for BananaFence_18:

(4, 5779), (5, 5791), (7, 5851), (9, 5863), (12, 5917), (Start: 25 @5980 has 108 MA's), (Start: 26 @5986 has 27 MA's), (33, 6064), (39, 6154), (42, 6169),

Gene: Bangla1971_16 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for Bangla1971_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Basquiat_16 Start: 4960, Stop: 5199, Start Num: 25

Candidate Starts for Basquiat_16:

(4, 4759), (5, 4771), (7, 4831), (9, 4843), (12, 4897), (Start: 25 @4960 has 108 MA's), (Start: 26 @4966 has 27 MA's), (33, 5044), (39, 5134), (42, 5149),

Gene: BeanWater_13 Start: 5506, Stop: 5781, Start Num: 25

Candidate Starts for BeanWater_13:

(6, 5377), (Start: 25 @5506 has 108 MA's), (Start: 26 @5512 has 27 MA's), (29, 5572), (33, 5590), (35, 5626), (39, 5680), (42, 5695), (47, 5728), (48, 5737),

Gene: Belieber_15 Start: 4985, Stop: 5218, Start Num: 26

Candidate Starts for Belieber_15:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: BigCity_21 Start: 7349, Stop: 7588, Start Num: 25

Candidate Starts for BigCity_21:

(Start: 25 @7349 has 108 MA's), (Start: 26 @7355 has 27 MA's), (29, 7415), (33, 7433), (35, 7469), (39, 7523), (42, 7538),

Gene: Bipolarisk_17 Start: 6050, Stop: 6283, Start Num: 26

Candidate Starts for Bipolarisk_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Blackbrain_16 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for Blackbrain_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: BobaPhatt_15 Start: 4985, Stop: 5218, Start Num: 26

Candidate Starts for BobaPhatt_15:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Bongo_86 Start: 53176, Stop: 53421, Start Num: 17

Candidate Starts for Bongo_86:

(Start: 17 @53176 has 22 MA's), (20, 53188), (22, 53197), (27, 53224), (32, 53299), (36, 53356), (38, 53383), (43, 53404),

Gene: Bonray_17 Start: 6038, Stop: 6277, Start Num: 25

Candidate Starts for Bonray_17:

(4, 5837), (5, 5849), (7, 5909), (9, 5921), (12, 5975), (Start: 25 @6038 has 108 MA's), (Start: 26 @6044 has 27 MA's), (33, 6122), (39, 6212), (42, 6227),

Gene: Bowman_17 Start: 6050, Stop: 6283, Start Num: 26

Candidate Starts for Bowman_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Bread_18 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for Bread_18:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Breeniome_17 Start: 4981, Stop: 5214, Start Num: 26

Candidate Starts for Breeniome_17:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Bricole_85 Start: 52940, Stop: 53185, Start Num: 17

Candidate Starts for Bricole_85:

(Start: 17 @52940 has 22 MA's), (20, 52952), (22, 52961), (27, 52988), (32, 53063), (36, 53120), (38, 53147), (43, 53168),

Gene: Burrough_18 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for Burrough_18:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Cactojaque_15 Start: 4909, Stop: 5148, Start Num: 25

Candidate Starts for Cactojaque_15:

(12, 4846), (Start: 25 @4909 has 108 MA's), (Start: 26 @4915 has 27 MA's), (33, 4993), (39, 5083), (42, 5098),

Gene: Capablanca_18 Start: 6059, Stop: 6298, Start Num: 25

Candidate Starts for Capablanca_18:

(4, 5858), (5, 5870), (7, 5930), (9, 5942), (12, 5996), (Start: 25 @6059 has 108 MA's), (Start: 26 @6065 has 27 MA's), (33, 6143), (39, 6233), (42, 6248),

Gene: Catera_16 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for Catera_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Chargie21_16 Start: 4960, Stop: 5199, Start Num: 25

Candidate Starts for Chargie21_16:

(4, 4759), (5, 4771), (7, 4831), (9, 4843), (12, 4897), (Start: 25 @4960 has 108 MA's), (Start: 26 @4966 has 27 MA's), (33, 5044), (39, 5134), (42, 5149),

Gene: ChaylaJr_16 Start: 5002, Stop: 5241, Start Num: 25

Candidate Starts for ChaylaJr_16:

(4, 4801), (5, 4813), (7, 4873), (9, 4885), (12, 4939), (Start: 25 @5002 has 108 MA's), (Start: 26 @5008 has 27 MA's), (33, 5086), (39, 5176), (42, 5191),

Gene: ChickenPhender_16 Start: 4960, Stop: 5199, Start Num: 25

Candidate Starts for ChickenPhender_16:

(4, 4759), (5, 4771), (7, 4831), (9, 4843), (12, 4897), (Start: 25 @4960 has 108 MA's), (Start: 26 @4966 has 27 MA's), (33, 5044), (39, 5134), (42, 5149),

Gene: Chomp_16 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for Chomp_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: CindyLou_16 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for CindyLou_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Concombres_17 Start: 6051, Stop: 6284, Start Num: 26

Candidate Starts for Concombres_17:

(15, 5997), (16, 6003), (Start: 25 @6045 has 108 MA's), (Start: 26 @6051 has 27 MA's), (29, 6111), (33, 6129), (35, 6165), (39, 6219), (42, 6234),

Gene: Cosmo_142 Start: 66908, Stop: 67126, Start Num: 25

Candidate Starts for Cosmo_142:

(Start: 25 @66908 has 108 MA's), (37, 67064), (41, 67082), (42, 67091), (43, 67094), (45, 67106), (46, 67115),

Gene: Daffodil_19 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for Daffodil_19:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Dandelion_22 Start: 7393, Stop: 7641, Start Num: 26

Candidate Starts for Dandelion_22:

(Start: 25 @7387 has 108 MA's), (Start: 26 @7393 has 27 MA's), (29, 7453), (33, 7471), (35, 7507), (39, 7561), (42, 7576), (49, 7621),

Gene: Darko_16 Start: 5949, Stop: 6188, Start Num: 25

Candidate Starts for Darko_16:

(4, 5748), (5, 5760), (7, 5820), (9, 5832), (12, 5886), (Start: 25 @5949 has 108 MA's), (Start: 26 @5955 has 27 MA's), (33, 6033), (39, 6123), (42, 6138),

Gene: Delilah_17 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for Delilah_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Delylah_20 Start: 6071, Stop: 6310, Start Num: 25

Candidate Starts for Delylah_20:

(4, 5870), (5, 5882), (7, 5942), (9, 5954), (12, 6008), (Start: 25 @6071 has 108 MA's), (Start: 26 @6077 has 27 MA's), (33, 6155), (39, 6245), (42, 6260),

Gene: Demodog_16 Start: 6051, Stop: 6284, Start Num: 26

Candidate Starts for Demodog_16:

(15, 5997), (16, 6003), (Start: 25 @6045 has 108 MA's), (Start: 26 @6051 has 27 MA's), (29, 6111), (33, 6129), (35, 6165), (39, 6219), (42, 6234),

Gene: Derek_17 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for Derek_17:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Dessert_15 Start: 4985, Stop: 5218, Start Num: 26

Candidate Starts for Dessert_15:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Dietrick_14 Start: 4983, Stop: 5216, Start Num: 26

Candidate Starts for Dietrick_14:

(4, 4776), (5, 4788), (7, 4848), (9, 4860), (12, 4914), (Start: 25 @4977 has 108 MA's), (Start: 26 @4983 has 27 MA's), (33, 5061), (39, 5151), (42, 5166),

Gene: Diminimus_87 Start: 53171, Stop: 53416, Start Num: 17

Candidate Starts for Diminimus_87:

(Start: 17 @53171 has 22 MA's), (20, 53183), (22, 53192), (27, 53219), (32, 53294), (36, 53351), (38, 53378), (43, 53399),

Gene: DrPhinkDaddy_17 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for DrPhinkDaddy_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Dulcita_87 Start: 53172, Stop: 53417, Start Num: 17

Candidate Starts for Dulcita_87:

(Start: 17 @53172 has 22 MA's), (20, 53184), (22, 53193), (27, 53220), (32, 53295), (36, 53352), (38, 53379), (43, 53400),

Gene: EasyJones_17 Start: 4960, Stop: 5199, Start Num: 25

Candidate Starts for EasyJones_17:

(4, 4759), (5, 4771), (7, 4831), (9, 4843), (12, 4897), (Start: 25 @4960 has 108 MA's), (Start: 26 @4966 has 27 MA's), (33, 5044), (39, 5134), (42, 5149),

Gene: EggyFarm_21 Start: 7349, Stop: 7588, Start Num: 25

Candidate Starts for EggyFarm_21:

(Start: 25 @7349 has 108 MA's), (Start: 26 @7355 has 27 MA's), (29, 7415), (33, 7433), (35, 7469), (39, 7523), (42, 7538),

Gene: EmToTheThree_20 Start: 7458, Stop: 7697, Start Num: 25

Candidate Starts for EmToTheThree_20:

(4, 7257), (5, 7269), (7, 7329), (9, 7341), (12, 7395), (Start: 25 @7458 has 108 MA's), (Start: 26 @7464 has 27 MA's), (33, 7542), (39, 7632), (42, 7647),

Gene: EmmaElysia_16 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for EmmaElysia_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: EniyanLRS_135 Start: 67127, Stop: 67345, Start Num: 25

Candidate Starts for EniyanLRS_135:

(Start: 25 @67127 has 108 MA's), (37, 67283), (41, 67301), (42, 67310), (43, 67313), (45, 67325), (46, 67334),

Gene: Erdmann_18 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for Erdmann_18:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: ErnieJ_20 Start: 6150, Stop: 6389, Start Num: 25

Candidate Starts for ErnieJ_20:

(4, 5949), (5, 5961), (7, 6021), (9, 6033), (12, 6087), (Start: 25 @6150 has 108 MA's), (Start: 26 @6156 has 27 MA's), (33, 6234), (39, 6324), (42, 6339),

Gene: Essence_16 Start: 4981, Stop: 5214, Start Num: 26

Candidate Starts for Essence_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Estes_97 Start: 54982, Stop: 55218, Start Num: 17

Candidate Starts for Estes_97:

(Start: 17 @54982 has 22 MA's), (20, 54994), (21, 55000), (22, 55003), (31, 55090), (32, 55096), (38, 55180), (42, 55198), (43, 55201),

Gene: Ewok_17 Start: 6050, Stop: 6283, Start Num: 26

Candidate Starts for Ewok_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Fixie_15 Start: 4966, Stop: 5199, Start Num: 26

Candidate Starts for Fixie_15:

(4, 4759), (5, 4771), (7, 4831), (9, 4843), (12, 4897), (Start: 25 @4960 has 108 MA's), (Start: 26 @4966 has 27 MA's), (33, 5044), (39, 5134), (42, 5149),

Gene: Flabslab_21 Start: 6911, Stop: 7150, Start Num: 25

Candidate Starts for Flabslab_21:

(4, 6710), (5, 6722), (7, 6782), (9, 6794), (12, 6848), (Start: 25 @6911 has 108 MA's), (Start: 26 @6917 has 27 MA's), (33, 6995), (39, 7085), (42, 7100),

Gene: Fludd_16 Start: 4961, Stop: 5200, Start Num: 25

Candidate Starts for Fludd_16:

(4, 4760), (5, 4772), (7, 4832), (9, 4844), (12, 4898), (Start: 25 @4961 has 108 MA's), (Start: 26 @4967 has 27 MA's), (33, 5045), (39, 5135), (42, 5150),

Gene: Fongie_17 Start: 6050, Stop: 6283, Start Num: 26

Candidate Starts for Fongie_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: FoxtrotP1_18 Start: 6603, Stop: 6842, Start Num: 25

Candidate Starts for FoxtrotP1_18:

(4, 6402), (5, 6414), (7, 6474), (9, 6486), (12, 6540), (Start: 25 @6603 has 108 MA's), (Start: 26 @6609 has 27 MA's), (33, 6687), (39, 6777), (42, 6792),

Gene: FreakyGoo_88 Start: 53651, Stop: 53896, Start Num: 17

Candidate Starts for FreakyGoo_88:

(Start: 17 @53651 has 22 MA's), (20, 53663), (22, 53672), (27, 53699), (32, 53774), (36, 53831), (38, 53858), (43, 53879),

Gene: FudgeTart_18 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for FudgeTart_18:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Gabriel_17 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for Gabriel_17:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Gamgam_16 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for Gamgam_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: GardenSalsa_98 Start: 55342, Stop: 55578, Start Num: 17

Candidate Starts for GardenSalsa_98:

(Start: 17 @55342 has 22 MA's), (20, 55354), (21, 55360), (22, 55363), (31, 55450), (32, 55456), (38, 55540), (42, 55558), (43, 55561),

Gene: GenevaB15_100 Start: 55391, Stop: 55651, Start Num: 17

Candidate Starts for GenevaB15_100:

(11, 55370), (Start: 17 @55391 has 22 MA's), (20, 55403), (21, 55409), (22, 55412), (31, 55499), (32, 55505), (38, 55589), (40, 55595), (42, 55607), (43, 55610),

Gene: Ghost_17 Start: 4985, Stop: 5218, Start Num: 26

Candidate Starts for Ghost_17:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Gizmo_19 Start: 6050, Stop: 6283, Start Num: 26

Candidate Starts for Gizmo_19:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Glaske16_87 Start: 53344, Stop: 53589, Start Num: 17

Candidate Starts for Glaske16_87:

(7, 53254), (Start: 17 @53344 has 22 MA's), (20, 53356), (22, 53365), (27, 53392), (32, 53467), (36, 53524), (38, 53551), (43, 53572),

Gene: GlutenPhree_17 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for GlutenPhree_17:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Grasshills_21 Start: 7355, Stop: 7588, Start Num: 26

Candidate Starts for Grasshills_21:

(Start: 25 @7349 has 108 MA's), (Start: 26 @7355 has 27 MA's), (29, 7415), (33, 7433), (35, 7469), (39, 7523), (42, 7538),

Gene: Guwapp_16 Start: 4981, Stop: 5214, Start Num: 26

Candidate Starts for Guwapp_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Halldule_14 Start: 4678, Stop: 4953, Start Num: 25

Candidate Starts for Halldule_14:

(6, 4549), (Start: 25 @4678 has 108 MA's), (Start: 26 @4684 has 27 MA's), (29, 4744), (33, 4762), (35, 4798), (39, 4852), (42, 4867), (47, 4900), (48, 4909),

Gene: HyRo_17 Start: 6648, Stop: 6887, Start Num: 25

Candidate Starts for HyRo_17:

(14, 6594), (Start: 25 @6648 has 108 MA's), (Start: 26 @6654 has 27 MA's), (33, 6732), (39, 6822), (42, 6837),

Gene: I3_19 Start: 6638, Stop: 6877, Start Num: 25

Candidate Starts for I3_19:

(6, 6509), (Start: 25 @6638 has 108 MA's), (Start: 26 @6644 has 27 MA's), (33, 6722), (35, 6758), (39, 6812), (42, 6827),

Gene: IPHane7_85 Start: 53176, Stop: 53421, Start Num: 17

Candidate Starts for IPHane7_85:

(Start: 17 @53176 has 22 MA's), (20, 53188), (22, 53197), (27, 53224), (32, 53299), (36, 53356), (38, 53383), (43, 53404),

Gene: InigoMontoya_18 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for InigoMontoya_18:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Iota_15 Start: 5823, Stop: 6062, Start Num: 25

Candidate Starts for Iota_15:

(6, 5694), (Start: 25 @5823 has 108 MA's), (Start: 26 @5829 has 27 MA's), (29, 5889), (33, 5907), (35, 5943), (39, 5997), (42, 6012),

Gene: Issimir_17 Start: 6038, Stop: 6277, Start Num: 25

Candidate Starts for Issimir_17:

(4, 5837), (5, 5849), (7, 5909), (9, 5921), (12, 5975), (Start: 25 @6038 has 108 MA's), (Start: 26 @6044 has 27 MA's), (33, 6122), (39, 6212), (42, 6227),

Gene: Izajani_18 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for Izajani_18:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Izel_87 Start: 53171, Stop: 53416, Start Num: 17

Candidate Starts for Izel_87:

(Start: 17 @53171 has 22 MA's), (20, 53183), (22, 53192), (27, 53219), (32, 53294), (36, 53351), (38, 53378), (43, 53399),

Gene: JPickles_16 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for JPickles_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Janiyra_16 Start: 4958, Stop: 5197, Start Num: 25

Candidate Starts for Janiyra_16:

(4, 4757), (5, 4769), (7, 4829), (9, 4841), (12, 4895), (Start: 25 @4958 has 108 MA's), (Start: 26 @4964 has 27 MA's), (33, 5042), (39, 5132), (42, 5147),

Gene: JayJay_20 Start: 6066, Stop: 6305, Start Num: 25

Candidate Starts for JayJay_20:

(6, 5937), (Start: 25 @6066 has 108 MA's), (Start: 26 @6072 has 27 MA's), (33, 6150), (35, 6186), (39, 6240), (42, 6255),

Gene: Jaygup_16 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for Jaygup_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (29, 5041), (33, 5059), (35, 5095), (39, 5149), (42, 5164),

Gene: Jedediah_17 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for Jedediah_17:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Jemmno_16 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for Jemmno_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (29, 5045), (33, 5063), (35, 5099), (39, 5153), (42, 5168),

Gene: Jessibeth14_17 Start: 6050, Stop: 6283, Start Num: 26

Candidate Starts for Jessibeth14_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: JigglyPuff_18 Start: 6100, Stop: 6333, Start Num: 26

Candidate Starts for JigglyPuff_18:

(15, 6046), (16, 6052), (Start: 25 @6094 has 108 MA's), (Start: 26 @6100 has 27 MA's), (29, 6160), (33, 6178), (35, 6214), (39, 6268), (42, 6283),

Gene: JustHall_16 Start: 5974, Stop: 6213, Start Num: 25

Candidate Starts for JustHall_16:

(4, 5773), (5, 5785), (7, 5845), (9, 5857), (12, 5911), (Start: 25 @5974 has 108 MA's), (Start: 26 @5980 has 27 MA's), (33, 6058), (39, 6148), (42, 6163),

Gene: Kboogie_17 Start: 4977, Stop: 5216, Start Num: 25

Candidate Starts for Kboogie_17:

(4, 4776), (5, 4788), (7, 4848), (9, 4860), (12, 4914), (Start: 25 @4977 has 108 MA's), (Start: 26 @4983 has 27 MA's), (33, 5061), (39, 5151), (42, 5166),

Gene: Khaleesi_17 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for Khaleesi_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: KleverKiS_85 Start: 53042, Stop: 53287, Start Num: 17

Candidate Starts for KleverKiS_85:

(7, 52952), (Start: 17 @53042 has 22 MA's), (20, 53054), (22, 53063), (27, 53090), (32, 53165), (36, 53222), (38, 53249), (43, 53270),

Gene: Koguma_14 Start: 4678, Stop: 4953, Start Num: 25

Candidate Starts for Koguma_14:

(6, 4549), (Start: 25 @4678 has 108 MA's), (Start: 26 @4684 has 27 MA's), (29, 4744), (33, 4762), (35, 4798), (39, 4852), (42, 4867), (47, 4900), (48, 4909),

Gene: Labradorite_15 Start: 4981, Stop: 5214, Start Num: 26

Candidate Starts for Labradorite_15:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Latch_16 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for Latch_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Lee7_17 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for Lee7_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: LifeSavor_17 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for LifeSavor_17:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: LilhomieP_86 Start: 53655, Stop: 53900, Start Num: 17

Candidate Starts for LilhomieP_86:

(Start: 17 @53655 has 22 MA's), (20, 53667), (22, 53676), (27, 53703), (32, 53778), (36, 53835), (38, 53862), (43, 53883),

Gene: Littleton_17 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for Littleton_17:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Loanshark_17 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for Loanshark_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Lunareta_17 Start: 5777, Stop: 6010, Start Num: 26

Candidate Starts for Lunareta_17:

(6, 5642), (Start: 25 @5771 has 108 MA's), (Start: 26 @5777 has 27 MA's), (33, 5855), (35, 5891), (39, 5945), (42, 5960),

Gene: Maby2021_18 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for Maby2021_18:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Mangeria_20 Start: 6676, Stop: 6915, Start Num: 25

Candidate Starts for Mangeria_20:

(Start: 25 @6676 has 108 MA's), (Start: 26 @6682 has 27 MA's), (29, 6742), (33, 6760), (35, 6796), (39, 6850), (42, 6865),

Gene: Matsumoto_16 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for Matsumoto_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Maturis_18 Start: 5834, Stop: 6073, Start Num: 25

Candidate Starts for Maturis_18:

(15, 5786), (16, 5792), (Start: 25 @5834 has 108 MA's), (Start: 26 @5840 has 27 MA's), (29, 5900), (33, 5918), (35, 5954), (39, 6008), (42, 6023),

Gene: Mbo2_64 Start: 49444, Stop: 49133, Start Num: 19

Candidate Starts for Mbo2_64:

(19, 49444), (27, 49399), (28, 49390), (30, 49333), (34, 49297), (38, 49216), (43, 49195), (44, 49189), (46, 49174),

Gene: McGee_17 Start: 4977, Stop: 5216, Start Num: 25

Candidate Starts for McGee_17:

(4, 4776), (5, 4788), (7, 4848), (9, 4860), (12, 4914), (Start: 25 @4977 has 108 MA's), (Start: 26 @4983 has 27 MA's), (33, 5061), (39, 5151), (42, 5166),

Gene: McWolfish_17 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for McWolfish_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Megamind_17 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for Megamind_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Melpomini_16 Start: 4964, Stop: 5197, Start Num: 26

Candidate Starts for Melpomini_16:

(4, 4757), (5, 4769), (7, 4829), (9, 4841), (12, 4895), (Start: 25 @4958 has 108 MA's), (Start: 26 @4964 has 27 MA's), (33, 5042), (39, 5132), (42, 5147),

Gene: MikeLiesIn_18 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for MikeLiesIn_18:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: MoMoMixon_19 Start: 6519, Stop: 6794, Start Num: 25

Candidate Starts for MoMoMixon_19:

(6, 6390), (Start: 25 @6519 has 108 MA's), (Start: 26 @6525 has 27 MA's), (29, 6585), (33, 6603), (35, 6639), (39, 6693), (42, 6708), (47, 6741), (48, 6750),

Gene: Moby_13 Start: 4006, Stop: 4239, Start Num: 26

Candidate Starts for Moby_13:

(Start: 25 @4000 has 108 MA's), (Start: 26 @4006 has 27 MA's), (33, 4084), (39, 4174), (42, 4189),

Gene: Moiqah_13 Start: 4006, Stop: 4239, Start Num: 26

Candidate Starts for Moiqah_13:

(Start: 25 @4000 has 108 MA's), (Start: 26 @4006 has 27 MA's), (33, 4084), (39, 4174), (42, 4189),

Gene: Momo_16 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for Momo_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Montpel_17 Start: 5777, Stop: 6010, Start Num: 26

Candidate Starts for Montpel_17:

(6, 5642), (Start: 25 @5771 has 108 MA's), (Start: 26 @5777 has 27 MA's), (33, 5855), (35, 5891), (39, 5945), (42, 5960),

Gene: Morizzled23_16 Start: 4958, Stop: 5197, Start Num: 25

Candidate Starts for Morizzled23_16:

(4, 4757), (5, 4769), (7, 4829), (9, 4841), (12, 4895), (Start: 25 @4958 has 108 MA's), (Start: 26 @4964 has 27 MA's), (33, 5042), (39, 5132), (42, 5147),

Gene: MrMagoo_99 Start: 55342, Stop: 55578, Start Num: 17

Candidate Starts for MrMagoo_99:

(Start: 17 @55342 has 22 MA's), (20, 55354), (21, 55360), (22, 55363), (31, 55450), (32, 55456), (38, 55540), (42, 55558), (43, 55561),

Gene: Naija_16 Start: 4985, Stop: 5218, Start Num: 26

Candidate Starts for Naija_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Nanosmite_91 Start: 54259, Stop: 54498, Start Num: 17

Candidate Starts for Nanosmite_91:

(Start: 17 @54259 has 22 MA's), (20, 54271), (22, 54280), (32, 54376), (38, 54460), (42, 54478), (43, 54481),

Gene: Napoleon13_16 Start: 4983, Stop: 5216, Start Num: 26

Candidate Starts for Napoleon13_16:

(4, 4776), (5, 4788), (7, 4848), (9, 4860), (12, 4914), (Start: 25 @4977 has 108 MA's), (Start: 26 @4983 has 27 MA's), (33, 5061), (39, 5151), (42, 5166),

Gene: Nappy_19 Start: 6262, Stop: 6501, Start Num: 25

Candidate Starts for Nappy_19:

(Start: 25 @6262 has 108 MA's), (Start: 26 @6268 has 27 MA's), (29, 6328), (33, 6346), (35, 6382), (39, 6436), (42, 6451),

Gene: Naval22_20 Start: 6519, Stop: 6794, Start Num: 25

Candidate Starts for Naval22_20:

(6, 6390), (Start: 25 @6519 has 108 MA's), (Start: 26 @6525 has 27 MA's), (29, 6585), (33, 6603), (35, 6639), (39, 6693), (42, 6708), (47, 6741), (48, 6750),

Gene: NedWong_18 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for NedWong_18:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Ngannou_16 Start: 4958, Stop: 5197, Start Num: 25

Candidate Starts for Ngannou_16:

(4, 4757), (5, 4769), (7, 4829), (9, 4841), (12, 4895), (Start: 25 @4958 has 108 MA's), (Start: 26 @4964 has 27 MA's), (33, 5042), (39, 5132), (42, 5147),

Gene: Nidhogg_19 Start: 6519, Stop: 6794, Start Num: 25

Candidate Starts for Nidhogg_19:

(6, 6390), (Start: 25 @6519 has 108 MA's), (Start: 26 @6525 has 27 MA's), (29, 6585), (33, 6603), (35, 6639), (39, 6693), (42, 6708), (47, 6741), (48, 6750),

Gene: Norm_17 Start: 6050, Stop: 6283, Start Num: 26

Candidate Starts for Norm_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: OrediggerDelux_17 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for OrediggerDelux_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: ParkTD_17 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for ParkTD_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Patter_16 Start: 5002, Stop: 5235, Start Num: 26

Candidate Starts for Patter_16:

(4, 4795), (5, 4807), (7, 4867), (9, 4879), (12, 4933), (Start: 25 @4996 has 108 MA's), (Start: 26 @5002 has 27 MA's), (33, 5080), (39, 5170), (42, 5185),

Gene: PegLeg_85 Start: 52916, Stop: 53161, Start Num: 17

Candidate Starts for PegLeg_85:

(Start: 17 @52916 has 22 MA's), (20, 52928), (22, 52937), (27, 52964), (32, 53039), (36, 53096), (38, 53123), (43, 53144),

Gene: Phlegm_18 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for Phlegm_18:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Phusco_16 Start: 4981, Stop: 5214, Start Num: 26

Candidate Starts for Phusco_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Pivoine_16 Start: 4985, Stop: 5218, Start Num: 26

Candidate Starts for Pivoine_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Pleione_19 Start: 6050, Stop: 6283, Start Num: 26

Candidate Starts for Pleione_19:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: PurduePete_17 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for PurduePete_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Quasimodo_16 Start: 5984, Stop: 6217, Start Num: 26

Candidate Starts for Quasimodo_16:

(4, 5777), (5, 5789), (7, 5849), (9, 5861), (12, 5915), (Start: 25 @5978 has 108 MA's), (Start: 26 @5984 has 27 MA's), (33, 6062), (39, 6152), (42, 6167),

Gene: Rahel_16 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for Rahel_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Reindeer_86 Start: 53665, Stop: 53910, Start Num: 17

Candidate Starts for Reindeer_86:

(Start: 17 @53665 has 22 MA's), (20, 53677), (22, 53686), (27, 53713), (32, 53788), (36, 53845), (38, 53872), (42, 53890),

Gene: Rey_97 Start: 54655, Stop: 54894, Start Num: 17

Candidate Starts for Rey_97:

(13, 54637), (Start: 17 @54655 has 22 MA's), (20, 54667), (22, 54676), (32, 54772), (38, 54856), (43, 54877),

Gene: Roots515_17 Start: 6043, Stop: 6282, Start Num: 25

Candidate Starts for Roots515_17:

(4, 5842), (5, 5854), (7, 5914), (9, 5926), (12, 5980), (Start: 25 @6043 has 108 MA's), (Start: 26 @6049 has 27 MA's), (33, 6127), (39, 6217), (42, 6232),

Gene: RoseMarie_92 Start: 56574, Stop: 56819, Start Num: 17

Candidate Starts for RoseMarie_92:

(Start: 17 @56574 has 22 MA's), (20, 56586), (22, 56595), (27, 56622), (32, 56697), (36, 56754), (38, 56781), (43, 56802),

Gene: SVoro_17 Start: 6038, Stop: 6277, Start Num: 25

Candidate Starts for SVoro_17:

(4, 5837), (5, 5849), (7, 5909), (9, 5921), (12, 5975), (Start: 25 @6038 has 108 MA's), (Start: 26 @6044 has 27 MA's), (33, 6122), (39, 6212), (42, 6227),

Gene: Salacia_19 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for Salacia_19:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: ScottMcG_19 Start: 6606, Stop: 6839, Start Num: 26

Candidate Starts for ScottMcG_19:

(4, 6399), (5, 6411), (7, 6471), (9, 6483), (12, 6537), (Start: 25 @6600 has 108 MA's), (Start: 26 @6606 has 27 MA's), (33, 6684), (39, 6774), (42, 6789),

Gene: Shelob_20 Start: 7218, Stop: 7457, Start Num: 25

Candidate Starts for Shelob_20:

(4, 7017), (5, 7029), (7, 7089), (9, 7101), (12, 7155), (Start: 25 @7218 has 108 MA's), (Start: 26 @7224 has 27 MA's), (33, 7302), (39, 7392), (42, 7407),

Gene: ShiaLabeouf_16 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for ShiaLabeouf_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Shifa_16 Start: 6079, Stop: 6318, Start Num: 25

Candidate Starts for Shifa_16:

(14, 6025), (Start: 25 @6079 has 108 MA's), (Start: 26 @6085 has 27 MA's), (33, 6163), (39, 6253), (42, 6268),

Gene: Shnickers_16 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for Shnickers_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Shrimp_17 Start: 6054, Stop: 6287, Start Num: 26

Candidate Starts for Shrimp_17:

(4, 5847), (5, 5859), (7, 5919), (9, 5931), (12, 5985), (Start: 25 @6048 has 108 MA's), (Start: 26 @6054 has 27 MA's), (33, 6132), (39, 6222), (42, 6237),

Gene: SilverDipper_17 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for SilverDipper_17:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Skinny_90 Start: 54084, Stop: 54329, Start Num: 17

Candidate Starts for Skinny_90:

(Start: 17 @54084 has 22 MA's), (20, 54096), (22, 54105), (27, 54132), (32, 54207), (36, 54264), (38, 54291), (43, 54312),

Gene: SlimJimmy_85 Start: 53621, Stop: 53866, Start Num: 17

Candidate Starts for SlimJimmy_85:

(7, 53531), (Start: 17 @53621 has 22 MA's), (20, 53633), (22, 53642), (27, 53669), (32, 53744), (36, 53801), (38, 53828), (43, 53849),

Gene: SmallFry_16 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for SmallFry_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (29, 5041), (33, 5059), (35, 5095), (39, 5149), (42, 5164),

Gene: SoilZilla_16 Start: 6050, Stop: 6283, Start Num: 26

Candidate Starts for SoilZilla_16:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Spec_15 Start: 4981, Stop: 5214, Start Num: 26

Candidate Starts for Spec_15:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: SrishMeg2525_17 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for SrishMeg2525_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Stubby_17 Start: 6268, Stop: 6507, Start Num: 25

Candidate Starts for Stubby_17:

(Start: 25 @6268 has 108 MA's), (Start: 26 @6274 has 27 MA's), (33, 6352), (39, 6442), (42, 6457),

Gene: StubbySaigey_17 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for StubbySaigey_17:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Substance289_15 Start: 4981, Stop: 5214, Start Num: 26

Candidate Starts for Substance289_15:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Teardrop_16 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for Teardrop_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: TinyTim_17 Start: 6050, Stop: 6283, Start Num: 26

Candidate Starts for TinyTim_17:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Tonenili_19 Start: 5847, Stop: 6080, Start Num: 25

Candidate Starts for Tonenili_19:

(1, 5448), (2, 5514), (3, 5565), (8, 5727), (10, 5733), (18, 5811), (23, 5835), (Start: 25 @5847 has 108 MA's), (Start: 26 @5853 has 27 MA's), (29, 5913), (33, 5931), (42, 6036), (47, 6069),

Gene: Tortoise16_15 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for Tortoise16_15:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: TpudiCK_88 Start: 53188, Stop: 53421, Start Num: 20

Candidate Starts for TpudiCK_88:

(Start: 17 @53176 has 22 MA's), (20, 53188), (22, 53197), (27, 53224), (32, 53299), (36, 53356), (38, 53383), (43, 53404),

Gene: Trinitium_16 Start: 4975, Stop: 5214, Start Num: 25

Candidate Starts for Trinitium_16:

(4, 4774), (5, 4786), (7, 4846), (9, 4858), (12, 4912), (Start: 25 @4975 has 108 MA's), (Start: 26 @4981 has 27 MA's), (33, 5059), (39, 5149), (42, 5164),

Gene: Turret_16 Start: 4964, Stop: 5197, Start Num: 26

Candidate Starts for Turret_16:

(4, 4757), (5, 4769), (7, 4829), (9, 4841), (12, 4895), (Start: 25 @4958 has 108 MA's), (Start: 26 @4964 has 27 MA's), (33, 5042), (39, 5132), (42, 5147),

Gene: TyDawg_86 Start: 53179, Stop: 53424, Start Num: 17

Candidate Starts for TyDawg_86:

(Start: 17 @53179 has 22 MA's), (20, 53191), (22, 53200), (27, 53227), (32, 53302), (36, 53359), (38, 53386), (43, 53407),

Gene: ValleyTerrace_16 Start: 4985, Stop: 5218, Start Num: 26

Candidate Starts for ValleyTerrace_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Vortrix_20 Start: 6120, Stop: 6353, Start Num: 25

Candidate Starts for Vortrix_20:

(1, 5718), (2, 5784), (3, 5835), (8, 5997), (10, 6003), (24, 6108), (Start: 25 @6120 has 108 MA's), (Start: 26 @6126 has 27 MA's), (29, 6186), (33, 6204), (42, 6309), (47, 6342),

Gene: Wally_16 Start: 4979, Stop: 5218, Start Num: 25

Candidate Starts for Wally_16:

(4, 4778), (5, 4790), (7, 4850), (9, 4862), (12, 4916), (Start: 25 @4979 has 108 MA's), (Start: 26 @4985 has 27 MA's), (33, 5063), (39, 5153), (42, 5168),

Gene: Willis_18 Start: 5984, Stop: 6223, Start Num: 25

Candidate Starts for Willis_18:

(4, 5783), (5, 5795), (7, 5855), (9, 5867), (12, 5921), (Start: 25 @5984 has 108 MA's), (Start: 26 @5990 has 27 MA's), (33, 6068), (39, 6158), (42, 6173),

Gene: YemiJoy2021_18 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for YemiJoy2021_18:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: YoungMoneyMata_17 Start: 4977, Stop: 5216, Start Num: 25

Candidate Starts for YoungMoneyMata_17:

(4, 4776), (5, 4788), (7, 4848), (9, 4860), (12, 4914), (Start: 25 @4977 has 108 MA's), (Start: 26 @4983 has 27 MA's), (33, 5061), (39, 5151), (42, 5166),

Gene: Yucca_17 Start: 5966, Stop: 6205, Start Num: 25

Candidate Starts for Yucca_17:

(4, 5765), (5, 5777), (7, 5837), (9, 5849), (12, 5903), (Start: 25 @5966 has 108 MA's), (Start: 26 @5972 has 27 MA's), (33, 6050), (39, 6140), (42, 6155),

Gene: Zalkecks_19 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for Zalkecks_19:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),

Gene: Zeenon_20 Start: 6045, Stop: 6284, Start Num: 25

Candidate Starts for Zeenon_20:

(4, 5844), (5, 5856), (7, 5916), (9, 5928), (12, 5982), (Start: 25 @6045 has 108 MA's), (Start: 26 @6051 has 27 MA's), (33, 6129), (39, 6219), (42, 6234),

Gene: ZygoTaiga_18 Start: 6044, Stop: 6283, Start Num: 25

Candidate Starts for ZygoTaiga_18:

(4, 5843), (5, 5855), (7, 5915), (9, 5927), (12, 5981), (Start: 25 @6044 has 108 MA's), (Start: 26 @6050 has 27 MA's), (33, 6128), (39, 6218), (42, 6233),