

Pham 308084



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 308084 Report

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

Pham number 308084 has 215 members, 37 are drafts.

Phages represented in each track:

- Track 1 : CindyLou_12, GlutenPhree_12, Shnickers_12, Loanshark_13, SilverDipper_12, Labradorite_11, Pivoine_12, Patter_12, JPickles_12, Fixie_11, CharlieB_13, Naija_12, Pinkcreek_8, Basquiat_12, Ngannou_12, TinyTim_13, Babyland_12, Atlantean_12, BananaFence_12, Momo_12, StubbySaigey_12, SoilZilla_12, Chargie21_12, Audrick_12, Khaleesi_13, EmToTheThree_16, Napoleon13_12, Delylah_15, Gizmo_13, SVoro_13, ET08_11, Derek_12, Rahel_12, ShiaLabeouf_12, Essence_12, Stubby_13, LifeSavor_12, ValleyTerrace_12, ArcherS7_12, Ewok_13, Belieber_11, MikeLiesIn_13, ScottMcG_14, ChaylaJr_12, Kboogie_12, YemiJoy2021_13, Asterius_13, Rabinovish_11, Shelob_16, Ronan_12, Jedediah_12, EmmaElysia_12, Bipolarisk_13, Blackbrain_12, Bonray_13, Erdmann_13, JustHall_12, Dietrick_11, Morizzled23_12, Amataga_12, Cali_13, Yassified_12, Guwapp_12, Melpomini_12, LRRHood_13, Ablatia_12, Teardrop_12, Turret_12, DrPhinkDaddy_13, HyRo_10, OrediggerDelux_13, Jessibeth14_13, NedWong_13, Willis_12, ErnieJ_15, Spec_11, Blackdragon_11, Jemmno_11, Darko_12, Zalkecks_13, BadAgartude_13, Trinitium_12, Bowman_13, Wally_12, Quasimodo_12, Phlegm_12, Fludd_12, ParkTD_13, BobaPhatt_11, SmallFry_12, SrishMeg2525_13, Bread_13, BackyardAgain_11, ZygoTaiga_13, Delilah_13, Ghost_12, Janiyra_12, Norm_13, Alice_10, Ava3_13, Izajani_13, Jaygup_12, Yucca_12, InigoMontoya_12, Burrough_13, Bezza_9, Daffodil_13, Fongie_13, Latch_12, Issimir_13, Tortoise16_11, Phusco_12, DeejaClivia_11, Lukilu_12, Chomp_12, Littleton_12, Gamgam_12, Pleione_13, Ading_12, Duckfeet_13, McWolfish_13, Zeenon_14, Shifa_9, Maby2021_13, Sprinklers_12, Capablanca_13, Matsumoto_12, YoungMoneyMata_12, FudgeTart_13, Salacia_13, Gabriel_12, Phox_13, Bangla1971_12, Catera_12, Breeniome_12, Substance289_11, Lee7_13, ChickenPhender_12, Megamind_13, Dessert_11, EasyJones_12, Flabslab_12, McGee_12, Cactojaque_11, Shrimp_13, Adlitam_12, Grungle_12, PurduePete_13
- Track 2 : Sauce_18, Bxz1_18, Tyke_18, NuevoMundo_20, DTDevon_17, NoodleTree_15, StephanieG_17, Spud_19, Pio_19, Drazdys_17
- Track 3 : Rizal_12
- Track 4 : BeanWater_12, Halldule_13, Koguma_13, I3_18, IkeLoa_12, Lunareta_16, Caravan_15, Kamryn_15, Nidhogg_18, Rocha_15, Mangeria_19, Naval22_19, LookingGlass_19, MoMoMixon_18, Mikro_15, Pier_18, Montpel_16, Jezreel_15
- Track 5 : Sebata_19, Bigswole_21, Specks_20, Lethe_18, Nappy_18, LinStu_19, Dandelion_21
- Track 6 : RoMag_11, Concombre_16, Domi_11, Demodog_15, JigglyPuff_17
- Track 7 : FoxtrotP1_14

- Track 8 : Primadonna_12, LordLeafolot_22, LolaVinca_19, FrayBell_22, InterFolia_22, PharkleMinkus_22, Tainan_22, Cleatunium_13, Astraea_17, Pupusa_22
- Track 9 : Moby_9, Moiqah_9
- Track 10 : Roots515_13, JulietS_12, Shaqnato_13, JayJay_19, Maturis_17
- Track 11 : Grasshills_20, EggyFarm_20, BigCity_20
- Track 12 : Tonenili_17, Vortrix_18
- Track 13 : QBert_15
- Track 14 : Iota_14
- Track 15 : ScoobyDoobyDoo_12

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

The start number called the most often in the published annotations is 5, it was called in 175 of the 178 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ablatia_12, Ading_12, Adlitam_12, Alice_10, Amataga_12, ArcherS7_12, Asterius_13, Astraea_17, Atlantean_12, Audrick_12, Ava3_13, Babyland_12, BackyardAgain_11, BadAgartude_13, BananaFence_12, Bangla1971_12, Basquiat_12, BeanWater_12, Belieber_11, Bezza_9, Bigswole_21, Bipolarisk_13, Blackbrain_12, Blackdragon_11, BobaPhatt_11, Bonray_13, Bowman_13, Bread_13, Breeniome_12, Burrough_13, Bxz1_18, Cactojaque_11, Cali_13, Capablanca_13, Caravan_15, Catera_12, Chargie21_12, CharlieB_13, ChaylaJr_12, ChickenPhender_12, Chomp_12, CindyLou_12, Cleatunium_13, Concombre_16, DTDevon_17, Daffodil_13, Dandelion_21, Darko_12, DeejaClivia_11, Delilah_13, Delylah_15, Demodog_15, Derek_12, Dessert_11, Dietrick_11, Domi_11, DrPhinkDaddy_13, Drazdys_17, Duckfeet_13, ET08_11, EasyJones_12, EmToTheThree_16, EmmaElysia_12, Erdmann_13, ErnieJ_15, Essence_12, Ewok_13, Fixie_11, Flabslab_12, Fludd_12, Fongie_13, FoxtrotP1_14, FrayBell_22, FudgeTart_13, Gabriel_12, Gangam_12, Ghost_12, Gizmo_13, GlutenPhree_12, Grungle_12, Guwapp_12, Halldule_13, HyRo_10, I3_18, IkeLoa_12, InigoMontoya_12, InterFolia_22, Iota_14, Issimir_13, Izajani_13, JPickles_12, Janiyra_12, JayJay_19, Jaygup_12, Jedediah_12, Jemmno_11, Jessibeth14_13, Jezreel_15, JigglyPuff_17, JulietS_12, JustHall_12, Kamryn_15, Kboogie_12, Khaleesi_13, Koguma_13, LRRHood_13, Labradorite_11, Latch_12, Lee7_13, Lethe_18, LifeSavor_12, LinStu_19, Littleton_12, Loanshark_13, LolaVinca_19, LookingGlass_19, LordLeafolot_22, Lukilu_12, Lunareta_16, Maby2021_13, Mangeria_19, Matsumoto_12, Maturis_17, McGee_12, McWolfish_13, Megamind_13, Melpomini_12, MikeLiesIn_13, Mikro_15, MoMoMixon_18, Moby_9, Moiqah_9, Momo_12, Montpel_16, Morizzled23_12, Naija_12, Napoleon13_12, Nappy_18, Naval22_19, NedWong_13, Ngannou_12, Nidhogg_18, NoodleTree_15, Norm_13, NuevoMundo_20, OrediggerDelux_13, ParkTD_13, Patter_12, PharkleMinkus_22, Phlegm_12, Phox_13, Phusco_12, Pier_18, Pinkcreek_8, Pio_19, Pivoine_12, Pleione_13, Primadonna_12, Pupusa_22, PurduePete_13, QBert_15, Quasimodo_12, Rabinovish_11, Rahel_12, RoMag_11, Rocha_15, Ronan_12, Roots515_13, SVoro_13, Salacia_13, Sauce_18, ScottMcG_14, Sebata_19, Shaqnato_13, Shelob_16, ShiaLabeouf_12, Shifa_9, Shnickers_12, Shrimp_13, SilverDipper_12, SmallFry_12, SoilZilla_12, Spec_11, Specks_20, Sprinklers_12, Spud_19, SrishMeg2525_13, StephanieG_17, StubbySaigey_12, Stubby_13,

Substance289_11, Tainan_22, Teardrop_12, TinyTim_13, Tortoise16_11, Trinitium_12, Turret_12, Tyke_18, ValleyTerrace_12, Wally_12, Willis_12, Yassified_12, YemiJoy2021_13, YoungMoneyMata_12, Yucca_12, Zalkecks_13, Zeenon_14, ZygoTaiga_13,

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

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

- BigCity_20, EggyFarm_20, Grasshills_20, Rizal_12, ScoobyDoobyDoo_12, Tonenili_17, Vortrix_18,

Summary by start number:

Start 5:

- Found in 208 of 215 (96.7%) of genes in pham
- Manual Annotations of this start: 175 of 178
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ablatia_12 (C1), Ading_12 (C1), Adlitam_12 (C1), Alice_10 (C1), Amataga_12 (C1), ArcherS7_12 (C1), Asterius_13 (C1), Astraea_17 (C1), Atlantean_12 (C1), Audrick_12 (C1), Ava3_13 (C1), Babyland_12 (C1), BackyardAgain_11 (C1), BadAgartude_13 (C1), BananaFence_12 (C1), Bangla1971_12 (C1), Basquiat_12 (C1), BeanWater_12 (C1), Belieber_11 (C1), Bezza_9 (C1), Bigswole_21 (C1), Bipolarisk_13 (C1), Blackbrain_12 (C1), Blackdragon_11 (C1), BobaPhatt_11 (C1), Bonray_13 (C1), Bowman_13 (C1), Bread_13 (C1), Breeniome_12 (C1), Burrough_13 (C1), Bxz1_18 (C1), Cactojaque_11 (C1), Cali_13 (C1), Capablanca_13 (C1), Caravan_15 (C1), Catera_12 (C1), Chargie21_12 (C1), CharlieB_13 (C1), ChaylaJr_12 (C1), ChickenPhender_12 (C1), Chomp_12 (C1), CindyLou_12 (C1), Cleatunium_13 (C1), Concombre_16 (C1), DTDevon_17 (C1), Daffodil_13 (C1), Dandelion_21 (C1), Darko_12 (C1), DeejaClivia_11 (C1), Delilah_13 (C1), Delylah_15 (C1), Demodog_15 (C1), Derek_12 (C1), Dessert_11 (C1), Dietrick_11 (C1), Domi_11 (C1), DrPhinkDaddy_13 (C1), Drazdys_17 (C1), Duckfeet_13 (C1), ET08_11 (C1), EasyJones_12 (C1), EmToTheThree_16 (C1), EmmaElysia_12 (C1), Erdmann_13 (C1), ErnieJ_15 (C1), Essence_12 (C1), Ewok_13 (C1), Fixie_11 (C1), Flabslab_12 (C1), Fludd_12 (C1), Fongie_13 (C1), FoxtrotP1_14 (C1), FrayBell_22 (C1), FudgeTart_13 (C1), Gabriel_12 (C1), Gamgam_12 (C1), Ghost_12 (C1), Gizmo_13 (C1), GlutenPhree_12 (C1), Grungle_12 (C1), Guwapp_12 (C1), Halldule_13 (C1), HyRo_10 (C1), I3_18 (C1), IkeLoa_12 (C1), InigoMontoya_12 (C1), InterFolia_22 (C1), Iota_14 (C1), Issimir_13 (C1), Izajani_13 (C1), JPickles_12 (C1), Janiyra_12 (C1), JayJay_19 (C1), Jaygup_12 (C1), Jediah_12 (C1), Jemmno_11 (C1), Jessibeth14_13 (C1), Jezreel_15 (C1), JigglyPuff_17 (C1), JulietS_12 (C1), JustHall_12 (C1), Kamryn_15 (C1), Kboogie_12 (C1), Khaleesi_13 (C1), Koguma_13 (C1), LRRHood_13 (C1), Labradorite_11 (C1), Latch_12 (C1), Lee7_13 (C1), Lethe_18 (C1), LifeSavor_12 (C1), LinStu_19 (C1), Littleton_12 (C1), Loanshark_13 (C1), LolaVinca_19 (C1), LookingGlass_19 (C1), LordLeafolot_22 (C1), Lukilu_12 (C1), Lunareta_16 (C1), Maby2021_13 (C1), Mangeria_19 (C1), Matsumoto_12 (C1), Maturis_17 (C1), McGee_12 (C1), McWolfish_13 (C1), Megamind_13 (C1), Melpomini_12 (C1), MikeLiesIn_13 (C1), Mikro_15 (C1), MoMoMixon_18 (C1), Moby_9 (C1), Moiqah_9 (C1), Momo_12 (C1), Montpel_16 (C1), Morizzled23_12 (C1), Naija_12 (C1), Napoleon13_12 (C1), Nappy_18 (C1), Naval22_19 (C1), NedWong_13 (C1), Ngannou_12 (C1), Nidhogg_18 (C1), NoodleTree_15 (C1), Norm_13 (C1), NuevoMundo_20 (C1), OrediggerDelux_13 (C1), ParkTD_13 (C1),

Patter_12 (C1), PharkleMinkus_22 (C1), Phlegm_12 (C1), Phox_13 (C1), Phusco_12 (C1), Pier_18 (C1), Pinkcreek_8 (C1), Pio_19 (C1), Pivoine_12 (C1), Pleione_13 (C1), Primadonna_12 (C1), Pupusa_22 (C1), PurduePete_13 (C1), QBert_15 (C1), Quasimodo_12 (C1), Rabinovish_11 (C1), Rahel_12 (C1), RoMag_11 (C1), Rocha_15 (C1), Ronan_12 (C1), Roots515_13 (C1), SVoro_13 (C1), Salacia_13 (C1), Sauce_18 (C1), ScottMcG_14 (C1), Sebata_19 (C1), Shaq nato_13 (C1), Shelob_16 (C1), ShiaLabeouf_12 (C1), Shifa_9 (C1), Shnickers_12 (C1), Shrimp_13 (C1), SilverDipper_12 (C1), SmallFry_12 (C1), SoilZilla_12 (C1), Spec_11 (C1), Specks_20 (C1), Sprinklers_12 (C1), Spud_19 (C1), SrishMeg2525_13 (C1), StephanieG_17 (C1), StubbySaigey_12 (C1), Stubby_13 (C1), Substance289_11 (C1), Tainan_22 (C1), Teardrop_12 (C1), TinyTim_13 (C1), Tortoise16_11 (C1), Trinitium_12 (C1), Turret_12 (C1), Tyke_18 (C1), ValleyTerrace_12 (C1), Wally_12 (C1), Willis_12 (C1), Yassified_12 (C1), YemiJoy2021_13 (C1), YoungMoneyMata_12 (C1), Yucca_12 (C1), Zalkecks_13 (C1), Zeenon_14 (C1), ZygoTaiga_13 (C1),

Start 7:

- Found in 194 of 215 (90.2%) of genes in pham
- Manual Annotations of this start: 1 of 178
- Called 2.6% of time when present
- Phage (with cluster) where this start called: BigCity_20 (C1), EggyFarm_20 (C1), Grasshills_20 (C1), Tonenili_17 (C1), Vortrix_18 (C1),

Start 9:

- Found in 1 of 215 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 178
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ScoobyDoobyDoo_12 (C2),

Start 13:

- Found in 212 of 215 (98.6%) of genes in pham
- Manual Annotations of this start: 1 of 178
- Called 0.5% of time when present
- Phage (with cluster) where this start called: Rizal_12 (C1),

Summary by clusters:

There are 2 clusters represented in this pham: C2, C1,

Info for manual annotations of cluster C1:

- Start number 5 was manually annotated 175 times for cluster C1.
- Start number 7 was manually annotated 1 time for cluster C1.
- Start number 13 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster C2:

- Start number 9 was manually annotated 1 time for cluster C2.

Gene Information:

Gene: Ablatia_12 Start: 3707, Stop: 3919, Start Num: 5

Candidate Starts for Ablatia_12:

(Start: 5 @3707 has 175 MA's), (6, 3728), (Start: 7 @3731 has 1 MA's), (8, 3734), (Start: 13 @3776 has 1 MA's), (14, 3818), (16, 3839), (17, 3848), (18, 3851), (20, 3857),

Gene: Ading_12 Start: 3684, Stop: 3896, Start Num: 5

Candidate Starts for Ading_12:

(Start: 5 @3684 has 175 MA's), (6, 3705), (Start: 7 @3708 has 1 MA's), (8, 3711), (Start: 13 @3753 has 1 MA's), (14, 3795), (16, 3816), (17, 3825), (18, 3828), (20, 3834),

Gene: Adlitam_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Adlitam_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Alice_10 Start: 4119, Stop: 4331, Start Num: 5

Candidate Starts for Alice_10:

(Start: 5 @4119 has 175 MA's), (6, 4140), (Start: 7 @4143 has 1 MA's), (8, 4146), (Start: 13 @4188 has 1 MA's), (14, 4230), (16, 4251), (17, 4260), (18, 4263), (20, 4269),

Gene: Amataga_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Amataga_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: ArcherS7_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for ArcherS7_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Asterius_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Asterius_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Astraea_17 Start: 5199, Stop: 5450, Start Num: 5

Candidate Starts for Astraea_17:

(Start: 5 @5199 has 175 MA's), (6, 5220), (10, 5244), (12, 5262), (Start: 13 @5307 has 1 MA's), (14, 5349), (16, 5370), (20, 5388),

Gene: Atlantean_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Atlantean_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Audrick_12 Start: 3684, Stop: 3896, Start Num: 5

Candidate Starts for Audrick_12:

(Start: 5 @3684 has 175 MA's), (6, 3705), (Start: 7 @3708 has 1 MA's), (8, 3711), (Start: 13 @3753 has 1 MA's), (14, 3795), (16, 3816), (17, 3825), (18, 3828), (20, 3834),

Gene: Ava3_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Ava3_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Babyland_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Babyland_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: BackyardAgain_11 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for BackyardAgain_11:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: BadAgartude_13 Start: 4473, Stop: 4685, Start Num: 5

Candidate Starts for BadAgartude_13:

(Start: 5 @4473 has 175 MA's), (6, 4494), (Start: 7 @4497 has 1 MA's), (8, 4500), (Start: 13 @4542 has 1 MA's), (14, 4584), (16, 4605), (17, 4614), (18, 4617), (20, 4623),

Gene: BananaFence_12 Start: 4706, Stop: 4918, Start Num: 5

Candidate Starts for BananaFence_12:

(Start: 5 @4706 has 175 MA's), (6, 4727), (Start: 7 @4730 has 1 MA's), (8, 4733), (Start: 13 @4775 has 1 MA's), (14, 4817), (16, 4838), (17, 4847), (18, 4850), (20, 4856),

Gene: Bangla1971_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Bangla1971_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Basquiat_12 Start: 3686, Stop: 3898, Start Num: 5

Candidate Starts for Basquiat_12:

(Start: 5 @3686 has 175 MA's), (6, 3707), (Start: 7 @3710 has 1 MA's), (8, 3713), (Start: 13 @3755 has 1 MA's), (14, 3797), (16, 3818), (17, 3827), (18, 3830), (20, 3836),

Gene: BeanWater_12 Start: 5280, Stop: 5492, Start Num: 5

Candidate Starts for BeanWater_12:

(Start: 5 @5280 has 175 MA's), (6, 5301), (Start: 7 @5304 has 1 MA's), (Start: 13 @5349 has 1 MA's), (14, 5391), (16, 5412), (20, 5430),

Gene: Belieber_11 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Belieber_11:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Bezza_9 Start: 4119, Stop: 4331, Start Num: 5

Candidate Starts for Bezza_9:

(Start: 5 @4119 has 175 MA's), (6, 4140), (Start: 7 @4143 has 1 MA's), (8, 4146), (Start: 13 @4188 has 1 MA's), (14, 4230), (16, 4251), (17, 4260), (18, 4263), (20, 4269),

Gene: BigCity_20 Start: 7151, Stop: 7336, Start Num: 7

Candidate Starts for BigCity_20:

(3, 7040), (Start: 7 @7151 has 1 MA's), (12, 7184), (Start: 13 @7193 has 1 MA's), (14, 7235), (16, 7256), (20, 7274),

Gene: Bigswole_21 Start: 6915, Stop: 7166, Start Num: 5

Candidate Starts for Bigswole_21:

(Start: 5 @6915 has 175 MA's), (6, 6936), (10, 6960), (12, 6978), (Start: 13 @7023 has 1 MA's), (14, 7065), (16, 7086), (20, 7104),

Gene: Bipolarisk_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Bipolarisk_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Blackbrain_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Blackbrain_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Blackdragon_11 Start: 3742, Stop: 3954, Start Num: 5

Candidate Starts for Blackdragon_11:

(Start: 5 @3742 has 175 MA's), (6, 3763), (Start: 7 @3766 has 1 MA's), (8, 3769), (Start: 13 @3811 has 1 MA's), (14, 3853), (16, 3874), (17, 3883), (18, 3886), (20, 3892),

Gene: BobaPhatt_11 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for BobaPhatt_11:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Bonray_13 Start: 4779, Stop: 4991, Start Num: 5

Candidate Starts for Bonray_13:

(Start: 5 @4779 has 175 MA's), (6, 4800), (Start: 7 @4803 has 1 MA's), (8, 4806), (Start: 13 @4848 has 1 MA's), (14, 4890), (16, 4911), (17, 4920), (18, 4923), (20, 4929),

Gene: Bowman_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Bowman_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Bread_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Bread_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Breeniome_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Breeniome_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Burrough_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Burrough_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Bxz1_18 Start: 6064, Stop: 6276, Start Num: 5

Candidate Starts for Bxz1_18:

(2, 5968), (Start: 5 @6064 has 175 MA's), (6, 6085), (Start: 7 @6088 has 1 MA's), (Start: 13 @6133 has 1 MA's), (14, 6175), (16, 6196), (20, 6214),

Gene: Cactojaque_11 Start: 3635, Stop: 3847, Start Num: 5

Candidate Starts for Cactojaque_11:

(Start: 5 @3635 has 175 MA's), (6, 3656), (Start: 7 @3659 has 1 MA's), (8, 3662), (Start: 13 @3704 has 1 MA's), (14, 3746), (16, 3767), (17, 3776), (18, 3779), (20, 3785),

Gene: Cali_13 Start: 5437, Stop: 5649, Start Num: 5

Candidate Starts for Cali_13:

(Start: 5 @5437 has 175 MA's), (6, 5458), (Start: 7 @5461 has 1 MA's), (8, 5464), (Start: 13 @5506 has 1 MA's), (14, 5548), (16, 5569), (17, 5578), (18, 5581), (20, 5587),

Gene: Capablanca_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Capablanca_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Caravan_15 Start: 4812, Stop: 5024, Start Num: 5

Candidate Starts for Caravan_15:

(Start: 5 @4812 has 175 MA's), (6, 4833), (Start: 7 @4836 has 1 MA's), (Start: 13 @4881 has 1 MA's), (14, 4923), (16, 4944), (20, 4962),

Gene: Catera_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Catera_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Chargie21_12 Start: 3686, Stop: 3898, Start Num: 5

Candidate Starts for Chargie21_12:

(Start: 5 @3686 has 175 MA's), (6, 3707), (Start: 7 @3710 has 1 MA's), (8, 3713), (Start: 13 @3755 has 1 MA's), (14, 3797), (16, 3818), (17, 3827), (18, 3830), (20, 3836),

Gene: CharlieB_13 Start: 4298, Stop: 4510, Start Num: 5

Candidate Starts for CharlieB_13:

(Start: 5 @4298 has 175 MA's), (6, 4319), (Start: 7 @4322 has 1 MA's), (8, 4325), (Start: 13 @4367 has 1 MA's), (14, 4409), (16, 4430), (17, 4439), (18, 4442), (20, 4448),

Gene: ChaylaJr_12 Start: 3728, Stop: 3940, Start Num: 5

Candidate Starts for ChaylaJr_12:

(Start: 5 @3728 has 175 MA's), (6, 3749), (Start: 7 @3752 has 1 MA's), (8, 3755), (Start: 13 @3797 has 1 MA's), (14, 3839), (16, 3860), (17, 3869), (18, 3872), (20, 3878),

Gene: ChickenPhender_12 Start: 3686, Stop: 3898, Start Num: 5

Candidate Starts for ChickenPhender_12:

(Start: 5 @3686 has 175 MA's), (6, 3707), (Start: 7 @3710 has 1 MA's), (8, 3713), (Start: 13 @3755 has 1 MA's), (14, 3797), (16, 3818), (17, 3827), (18, 3830), (20, 3836),

Gene: Chomp_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Chomp_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: CindyLou_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for CindyLou_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Cleatunium_13 Start: 4784, Stop: 5005, Start Num: 5

Candidate Starts for Cleatunium_13:

(Start: 5 @4784 has 175 MA's), (6, 4805), (10, 4829), (12, 4847), (Start: 13 @4892 has 1 MA's), (14, 4934), (16, 4955), (20, 4973),

Gene: Concombres_16 Start: 5636, Stop: 5848, Start Num: 5

Candidate Starts for Concombres_16:

(Start: 5 @5636 has 175 MA's), (6, 5657), (Start: 7 @5660 has 1 MA's), (Start: 13 @5705 has 1 MA's), (14, 5747), (16, 5768), (20, 5786),

Gene: DTDevon_17 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for DTDevon_17:

(2, 5589), (Start: 5 @5685 has 175 MA's), (6, 5706), (Start: 7 @5709 has 1 MA's), (Start: 13 @5754 has 1 MA's), (14, 5796), (16, 5817), (20, 5835),

Gene: Daffodil_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Daffodil_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Dandelion_21 Start: 7123, Stop: 7374, Start Num: 5

Candidate Starts for Dandelion_21:

(Start: 5 @7123 has 175 MA's), (6, 7144), (10, 7168), (12, 7186), (Start: 13 @7231 has 1 MA's), (14, 7273), (16, 7294), (20, 7312),

Gene: Darko_12 Start: 4675, Stop: 4887, Start Num: 5

Candidate Starts for Darko_12:

(Start: 5 @4675 has 175 MA's), (6, 4696), (Start: 7 @4699 has 1 MA's), (8, 4702), (Start: 13 @4744 has 1 MA's), (14, 4786), (16, 4807), (17, 4816), (18, 4819), (20, 4825),

Gene: DeejaClivia_11 Start: 3696, Stop: 3908, Start Num: 5

Candidate Starts for DeejaClivia_11:

(Start: 5 @3696 has 175 MA's), (6, 3717), (Start: 7 @3720 has 1 MA's), (8, 3723), (Start: 13 @3765 has 1 MA's), (14, 3807), (16, 3828), (17, 3837), (18, 3840), (20, 3846),

Gene: Delilah_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Delilah_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Delylah_15 Start: 4812, Stop: 5024, Start Num: 5

Candidate Starts for Delylah_15:

(Start: 5 @4812 has 175 MA's), (6, 4833), (Start: 7 @4836 has 1 MA's), (8, 4839), (Start: 13 @4881 has 1 MA's), (14, 4923), (16, 4944), (17, 4953), (18, 4956), (20, 4962),

Gene: Demodog_15 Start: 5636, Stop: 5848, Start Num: 5

Candidate Starts for Demodog_15:

(Start: 5 @5636 has 175 MA's), (6, 5657), (Start: 7 @5660 has 1 MA's), (Start: 13 @5705 has 1 MA's), (14, 5747), (16, 5768), (20, 5786),

Gene: Derek_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Derek_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Dessert_11 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Dessert_11:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Dietrick_11 Start: 3703, Stop: 3915, Start Num: 5

Candidate Starts for Dietrick_11:

(Start: 5 @3703 has 175 MA's), (6, 3724), (Start: 7 @3727 has 1 MA's), (8, 3730), (Start: 13 @3772 has 1 MA's), (14, 3814), (16, 3835), (17, 3844), (18, 3847), (20, 3853),

Gene: Domi_11 Start: 4636, Stop: 4848, Start Num: 5

Candidate Starts for Domi_11:

(Start: 5 @4636 has 175 MA's), (6, 4657), (Start: 7 @4660 has 1 MA's), (Start: 13 @4705 has 1 MA's), (14, 4747), (16, 4768), (20, 4786),

Gene: DrPhinkDaddy_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for DrPhinkDaddy_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Drazdys_17 Start: 5386, Stop: 5598, Start Num: 5

Candidate Starts for Drazdys_17:

(2, 5290), (Start: 5 @5386 has 175 MA's), (6, 5407), (Start: 7 @5410 has 1 MA's), (Start: 13 @5455 has 1 MA's), (14, 5497), (16, 5518), (20, 5536),

Gene: Duckfeet_13 Start: 4435, Stop: 4647, Start Num: 5

Candidate Starts for Duckfeet_13:

(Start: 5 @4435 has 175 MA's), (6, 4456), (Start: 7 @4459 has 1 MA's), (8, 4462), (Start: 13 @4504 has 1 MA's), (14, 4546), (16, 4567), (17, 4576), (18, 4579), (20, 4585),

Gene: ET08_11 Start: 4726, Stop: 4938, Start Num: 5

Candidate Starts for ET08_11:

(Start: 5 @4726 has 175 MA's), (6, 4747), (Start: 7 @4750 has 1 MA's), (8, 4753), (Start: 13 @4795 has 1 MA's), (14, 4837), (16, 4858), (17, 4867), (18, 4870), (20, 4876),

Gene: EasyJones_12 Start: 3686, Stop: 3898, Start Num: 5

Candidate Starts for EasyJones_12:

(Start: 5 @3686 has 175 MA's), (6, 3707), (Start: 7 @3710 has 1 MA's), (8, 3713), (Start: 13 @3755 has 1 MA's), (14, 3797), (16, 3818), (17, 3827), (18, 3830), (20, 3836),

Gene: EggyFarm_20 Start: 7151, Stop: 7336, Start Num: 7

Candidate Starts for EggyFarm_20:

(3, 7040), (Start: 7 @7151 has 1 MA's), (12, 7184), (Start: 13 @7193 has 1 MA's), (14, 7235), (16, 7256), (20, 7274),

Gene: EmToTheThree_16 Start: 6199, Stop: 6411, Start Num: 5

Candidate Starts for EmToTheThree_16:

(Start: 5 @6199 has 175 MA's), (6, 6220), (Start: 7 @6223 has 1 MA's), (8, 6226), (Start: 13 @6268 has 1 MA's), (14, 6310), (16, 6331), (17, 6340), (18, 6343), (20, 6349),

Gene: EmmaElysia_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for EmmaElysia_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Erdmann_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Erdmann_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: ErnieJ_15 Start: 4876, Stop: 5088, Start Num: 5

Candidate Starts for ErnieJ_15:

(Start: 5 @4876 has 175 MA's), (6, 4897), (Start: 7 @4900 has 1 MA's), (8, 4903), (Start: 13 @4945 has 1 MA's), (14, 4987), (16, 5008), (17, 5017), (18, 5020), (20, 5026),

Gene: Essence_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Essence_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Ewok_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Ewok_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Fixie_11 Start: 3686, Stop: 3898, Start Num: 5

Candidate Starts for Fixie_11:

(Start: 5 @3686 has 175 MA's), (6, 3707), (Start: 7 @3710 has 1 MA's), (8, 3713), (Start: 13 @3755 has 1 MA's), (14, 3797), (16, 3818), (17, 3827), (18, 3830), (20, 3836),

Gene: Flabslab_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Flabslab_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Fludd_12 Start: 3687, Stop: 3899, Start Num: 5

Candidate Starts for Fludd_12:

(Start: 5 @3687 has 175 MA's), (6, 3708), (Start: 7 @3711 has 1 MA's), (8, 3714), (Start: 13 @3756 has 1 MA's), (14, 3798), (16, 3819), (17, 3828), (18, 3831), (20, 3837),

Gene: Fongie_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Fongie_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: FoxtrotP1_14 Start: 5344, Stop: 5556, Start Num: 5

Candidate Starts for FoxtrotP1_14:

(Start: 5 @5344 has 175 MA's), (6, 5365), (Start: 7 @5368 has 1 MA's), (Start: 13 @5413 has 1 MA's), (14, 5455), (16, 5476), (17, 5485), (18, 5488), (20, 5494),

Gene: FrayBell_22 Start: 7172, Stop: 7423, Start Num: 5

Candidate Starts for FrayBell_22:

(Start: 5 @7172 has 175 MA's), (6, 7193), (10, 7217), (12, 7235), (Start: 13 @7280 has 1 MA's), (14, 7322), (16, 7343), (20, 7361),

Gene: FudgeTart_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for FudgeTart_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Gabriel_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Gabriel_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Gamgam_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Gamgam_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Ghost_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Ghost_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Gizmo_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Gizmo_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: GlutenPhree_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for GlutenPhree_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Grasshills_20 Start: 7151, Stop: 7336, Start Num: 7

Candidate Starts for Grasshills_20:

(3, 7040), (Start: 7 @7151 has 1 MA's), (12, 7184), (Start: 13 @7193 has 1 MA's), (14, 7235), (16, 7256), (20, 7274),

Gene: Grungle_12 Start: 3898, Stop: 4110, Start Num: 5

Candidate Starts for Grungle_12:

(Start: 5 @3898 has 175 MA's), (6, 3919), (Start: 7 @3922 has 1 MA's), (8, 3925), (Start: 13 @3967 has 1 MA's), (14, 4009), (16, 4030), (17, 4039), (18, 4042), (20, 4048),

Gene: Guwapp_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Guwapp_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Halldule_13 Start: 4452, Stop: 4664, Start Num: 5

Candidate Starts for Halldule_13:

(Start: 5 @4452 has 175 MA's), (6, 4473), (Start: 7 @4476 has 1 MA's), (Start: 13 @4521 has 1 MA's), (14, 4563), (16, 4584), (20, 4602),

Gene: HyRo_10 Start: 4627, Stop: 4839, Start Num: 5

Candidate Starts for HyRo_10:

(Start: 5 @4627 has 175 MA's), (6, 4648), (Start: 7 @4651 has 1 MA's), (8, 4654), (Start: 13 @4696 has 1 MA's), (14, 4738), (16, 4759), (17, 4768), (18, 4771), (20, 4777),

Gene: I3_18 Start: 6412, Stop: 6624, Start Num: 5

Candidate Starts for I3_18:

(Start: 5 @6412 has 175 MA's), (6, 6433), (Start: 7 @6436 has 1 MA's), (Start: 13 @6481 has 1 MA's), (14, 6523), (16, 6544), (20, 6562),

Gene: IkeLoa_12 Start: 4647, Stop: 4859, Start Num: 5

Candidate Starts for IkeLoa_12:

(Start: 5 @4647 has 175 MA's), (6, 4668), (Start: 7 @4671 has 1 MA's), (Start: 13 @4716 has 1 MA's), (14, 4758), (16, 4779), (20, 4797),

Gene: InigoMontoya_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for InigoMontoya_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: InterFolia_22 Start: 7169, Stop: 7420, Start Num: 5

Candidate Starts for InterFolia_22:

(Start: 5 @7169 has 175 MA's), (6, 7190), (10, 7214), (12, 7232), (Start: 13 @7277 has 1 MA's), (14, 7319), (16, 7340), (20, 7358),

Gene: Iota_14 Start: 5600, Stop: 5809, Start Num: 5

Candidate Starts for Iota_14:

(Start: 5 @5600 has 175 MA's), (10, 5639), (12, 5657), (Start: 13 @5666 has 1 MA's), (14, 5708), (16, 5729), (20, 5747),

Gene: Issimir_13 Start: 4779, Stop: 4991, Start Num: 5

Candidate Starts for Issimir_13:

(Start: 5 @4779 has 175 MA's), (6, 4800), (Start: 7 @4803 has 1 MA's), (8, 4806), (Start: 13 @4848 has 1 MA's), (14, 4890), (16, 4911), (17, 4920), (18, 4923), (20, 4929),

Gene: Izajani_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Izajani_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: JPickles_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for JPickles_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Janiyra_12 Start: 3684, Stop: 3896, Start Num: 5

Candidate Starts for Janiyra_12:

(Start: 5 @3684 has 175 MA's), (6, 3705), (Start: 7 @3708 has 1 MA's), (8, 3711), (Start: 13 @3753 has 1 MA's), (14, 3795), (16, 3816), (17, 3825), (18, 3828), (20, 3834),

Gene: JayJay_19 Start: 5840, Stop: 6052, Start Num: 5

Candidate Starts for JayJay_19:

(Start: 5 @5840 has 175 MA's), (6, 5861), (Start: 7 @5864 has 1 MA's), (8, 5867), (Start: 13 @5909 has 1 MA's), (14, 5951), (16, 5972), (20, 5990),

Gene: Jaygup_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Jaygup_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Jedediah_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Jedediah_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Jemmno_11 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Jemmno_11:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Jessibeth14_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Jessibeth14_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Jezreel_15 Start: 4848, Stop: 5060, Start Num: 5

Candidate Starts for Jezreel_15:

(Start: 5 @4848 has 175 MA's), (6, 4869), (Start: 7 @4872 has 1 MA's), (Start: 13 @4917 has 1 MA's), (14, 4959), (16, 4980), (20, 4998),

Gene: JigglyPuff_17 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for JigglyPuff_17:

(Start: 5 @5685 has 175 MA's), (6, 5706), (Start: 7 @5709 has 1 MA's), (Start: 13 @5754 has 1 MA's), (14, 5796), (16, 5817), (20, 5835),

Gene: JulietS_12 Start: 3746, Stop: 3958, Start Num: 5

Candidate Starts for JulietS_12:

(Start: 5 @3746 has 175 MA's), (6, 3767), (Start: 7 @3770 has 1 MA's), (8, 3773), (Start: 13 @3815 has 1 MA's), (14, 3857), (16, 3878), (20, 3896),

Gene: JustHall_12 Start: 4700, Stop: 4912, Start Num: 5

Candidate Starts for JustHall_12:

(Start: 5 @4700 has 175 MA's), (6, 4721), (Start: 7 @4724 has 1 MA's), (8, 4727), (Start: 13 @4769 has 1 MA's), (14, 4811), (16, 4832), (17, 4841), (18, 4844), (20, 4850),

Gene: Kamryn_15 Start: 4851, Stop: 5063, Start Num: 5

Candidate Starts for Kamryn_15:

(Start: 5 @4851 has 175 MA's), (6, 4872), (Start: 7 @4875 has 1 MA's), (Start: 13 @4920 has 1 MA's), (14, 4962), (16, 4983), (20, 5001),

Gene: Kboogie_12 Start: 3703, Stop: 3915, Start Num: 5

Candidate Starts for Kboogie_12:

(Start: 5 @3703 has 175 MA's), (6, 3724), (Start: 7 @3727 has 1 MA's), (8, 3730), (Start: 13 @3772 has 1 MA's), (14, 3814), (16, 3835), (17, 3844), (18, 3847), (20, 3853),

Gene: Khaleesi_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Khaleesi_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Koguma_13 Start: 4452, Stop: 4664, Start Num: 5

Candidate Starts for Koguma_13:

(Start: 5 @4452 has 175 MA's), (6, 4473), (Start: 7 @4476 has 1 MA's), (Start: 13 @4521 has 1 MA's), (14, 4563), (16, 4584), (20, 4602),

Gene: LRRHood_13 Start: 5437, Stop: 5649, Start Num: 5

Candidate Starts for LRRHood_13:

(Start: 5 @5437 has 175 MA's), (6, 5458), (Start: 7 @5461 has 1 MA's), (8, 5464), (Start: 13 @5506 has 1 MA's), (14, 5548), (16, 5569), (17, 5578), (18, 5581), (20, 5587),

Gene: Labradorite_11 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Labradorite_11:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Latch_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Latch_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Lee7_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Lee7_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Lethe_18 Start: 5960, Stop: 6211, Start Num: 5

Candidate Starts for Lethe_18:

(Start: 5 @5960 has 175 MA's), (6, 5981), (10, 6005), (12, 6023), (Start: 13 @6068 has 1 MA's), (14, 6110), (16, 6131), (20, 6149),

Gene: LifeSavor_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for LifeSavor_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: LinStu_19 Start: 6611, Stop: 6862, Start Num: 5

Candidate Starts for LinStu_19:

(Start: 5 @6611 has 175 MA's), (6, 6632), (10, 6656), (12, 6674), (Start: 13 @6719 has 1 MA's), (14, 6761), (16, 6782), (20, 6800),

Gene: Littleton_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Littleton_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Loanshark_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Loanshark_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: LolaVinca_19 Start: 6275, Stop: 6526, Start Num: 5

Candidate Starts for LolaVinca_19:

(Start: 5 @6275 has 175 MA's), (6, 6296), (10, 6320), (12, 6338), (Start: 13 @6383 has 1 MA's), (14, 6425), (16, 6446), (20, 6464),

Gene: LookingGlass_19 Start: 6150, Stop: 6362, Start Num: 5

Candidate Starts for LookingGlass_19:

(Start: 5 @6150 has 175 MA's), (6, 6171), (Start: 7 @6174 has 1 MA's), (Start: 13 @6219 has 1 MA's), (14, 6261), (16, 6282), (20, 6300),

Gene: LordLeafolot_22 Start: 7171, Stop: 7422, Start Num: 5

Candidate Starts for LordLeafolot_22:

(Start: 5 @7171 has 175 MA's), (6, 7192), (10, 7216), (12, 7234), (Start: 13 @7279 has 1 MA's), (14, 7321), (16, 7342), (20, 7360),

Gene: Lukilu_12 Start: 4891, Stop: 5103, Start Num: 5

Candidate Starts for Lukilu_12:

(Start: 5 @4891 has 175 MA's), (6, 4912), (Start: 7 @4915 has 1 MA's), (8, 4918), (Start: 13 @4960 has 1 MA's), (14, 5002), (16, 5023), (17, 5032), (18, 5035), (20, 5041),

Gene: Lunareta_16 Start: 5545, Stop: 5757, Start Num: 5

Candidate Starts for Lunareta_16:

(Start: 5 @5545 has 175 MA's), (6, 5566), (Start: 7 @5569 has 1 MA's), (Start: 13 @5614 has 1 MA's), (14, 5656), (16, 5677), (20, 5695),

Gene: Maby2021_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Maby2021_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Mangeria_19 Start: 6451, Stop: 6663, Start Num: 5

Candidate Starts for Mangeria_19:

(Start: 5 @6451 has 175 MA's), (6, 6472), (Start: 7 @6475 has 1 MA's), (Start: 13 @6520 has 1 MA's), (14, 6562), (16, 6583), (20, 6601),

Gene: Matsumoto_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Matsumoto_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Maturis_17 Start: 5425, Stop: 5637, Start Num: 5

Candidate Starts for Maturis_17:

(Start: 5 @5425 has 175 MA's), (6, 5446), (Start: 7 @5449 has 1 MA's), (8, 5452), (Start: 13 @5494 has 1 MA's), (14, 5536), (16, 5557), (20, 5575),

Gene: McGee_12 Start: 3703, Stop: 3915, Start Num: 5

Candidate Starts for McGee_12:

(Start: 5 @3703 has 175 MA's), (6, 3724), (Start: 7 @3727 has 1 MA's), (8, 3730), (Start: 13 @3772 has 1 MA's), (14, 3814), (16, 3835), (17, 3844), (18, 3847), (20, 3853),

Gene: McWolfish_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for McWolfish_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Megamind_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Megamind_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Melpomini_12 Start: 3684, Stop: 3896, Start Num: 5

Candidate Starts for Melpomini_12:

(Start: 5 @3684 has 175 MA's), (6, 3705), (Start: 7 @3708 has 1 MA's), (8, 3711), (Start: 13 @3753 has 1 MA's), (14, 3795), (16, 3816), (17, 3825), (18, 3828), (20, 3834),

Gene: MikeLiesIn_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for MikeLiesIn_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Mikro_15 Start: 5847, Stop: 6059, Start Num: 5

Candidate Starts for Mikro_15:

(Start: 5 @5847 has 175 MA's), (6, 5868), (Start: 7 @5871 has 1 MA's), (Start: 13 @5916 has 1 MA's), (14, 5958), (16, 5979), (20, 5997),

Gene: MoMoMixon_18 Start: 6293, Stop: 6505, Start Num: 5

Candidate Starts for MoMoMixon_18:

(Start: 5 @6293 has 175 MA's), (6, 6314), (Start: 7 @6317 has 1 MA's), (Start: 13 @6362 has 1 MA's), (14, 6404), (16, 6425), (20, 6443),

Gene: Moby_9 Start: 2278, Stop: 2490, Start Num: 5

Candidate Starts for Moby_9:

(Start: 5 @2278 has 175 MA's), (6, 2299), (Start: 7 @2302 has 1 MA's), (8, 2305), (Start: 13 @2347 has 1 MA's), (14, 2389), (16, 2410), (17, 2419), (18, 2422), (20, 2428),

Gene: Moiqah_9 Start: 2278, Stop: 2490, Start Num: 5

Candidate Starts for Moiqah_9:

(Start: 5 @2278 has 175 MA's), (6, 2299), (Start: 7 @2302 has 1 MA's), (8, 2305), (Start: 13 @2347 has 1 MA's), (14, 2389), (16, 2410), (17, 2419), (18, 2422), (20, 2428),

Gene: Momo_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Momo_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Montpel_16 Start: 5545, Stop: 5757, Start Num: 5

Candidate Starts for Montpel_16:

(Start: 5 @5545 has 175 MA's), (6, 5566), (Start: 7 @5569 has 1 MA's), (Start: 13 @5614 has 1 MA's), (14, 5656), (16, 5677), (20, 5695),

Gene: Morizzled23_12 Start: 3684, Stop: 3896, Start Num: 5

Candidate Starts for Morizzled23_12:

(Start: 5 @3684 has 175 MA's), (6, 3705), (Start: 7 @3708 has 1 MA's), (8, 3711), (Start: 13 @3753 has 1 MA's), (14, 3795), (16, 3816), (17, 3825), (18, 3828), (20, 3834),

Gene: Naija_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Naija_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Napoleon13_12 Start: 3703, Stop: 3915, Start Num: 5

Candidate Starts for Napoleon13_12:

(Start: 5 @3703 has 175 MA's), (6, 3724), (Start: 7 @3727 has 1 MA's), (8, 3730), (Start: 13 @3772 has 1 MA's), (14, 3814), (16, 3835), (17, 3844), (18, 3847), (20, 3853),

Gene: Nappy_18 Start: 5998, Stop: 6249, Start Num: 5

Candidate Starts for Nappy_18:

(Start: 5 @5998 has 175 MA's), (6, 6019), (10, 6043), (12, 6061), (Start: 13 @6106 has 1 MA's), (14, 6148), (16, 6169), (20, 6187),

Gene: Naval22_19 Start: 6293, Stop: 6505, Start Num: 5

Candidate Starts for Naval22_19:

(Start: 5 @6293 has 175 MA's), (6, 6314), (Start: 7 @6317 has 1 MA's), (Start: 13 @6362 has 1 MA's), (14, 6404), (16, 6425), (20, 6443),

Gene: NedWong_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for NedWong_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Ngannou_12 Start: 3684, Stop: 3896, Start Num: 5

Candidate Starts for Ngannou_12:

(Start: 5 @3684 has 175 MA's), (6, 3705), (Start: 7 @3708 has 1 MA's), (8, 3711), (Start: 13 @3753 has 1 MA's), (14, 3795), (16, 3816), (17, 3825), (18, 3828), (20, 3834),

Gene: Nidhogg_18 Start: 6293, Stop: 6505, Start Num: 5

Candidate Starts for Nidhogg_18:

(Start: 5 @6293 has 175 MA's), (6, 6314), (Start: 7 @6317 has 1 MA's), (Start: 13 @6362 has 1 MA's), (14, 6404), (16, 6425), (20, 6443),

Gene: NoodleTree_15 Start: 4848, Stop: 5060, Start Num: 5

Candidate Starts for NoodleTree_15:

(2, 4752), (Start: 5 @4848 has 175 MA's), (6, 4869), (Start: 7 @4872 has 1 MA's), (Start: 13 @4917 has 1 MA's), (14, 4959), (16, 4980), (20, 4998),

Gene: Norm_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Norm_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: NuevoMundo_20 Start: 6956, Stop: 7168, Start Num: 5

Candidate Starts for NuevoMundo_20:

(2, 6860), (Start: 5 @6956 has 175 MA's), (6, 6977), (Start: 7 @6980 has 1 MA's), (Start: 13 @7025 has 1 MA's), (14, 7067), (16, 7088), (20, 7106),

Gene: OrediggerDelux_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for OrediggerDelux_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: ParkTD_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for ParkTD_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Patter_12 Start: 3722, Stop: 3934, Start Num: 5

Candidate Starts for Patter_12:

(Start: 5 @3722 has 175 MA's), (6, 3743), (Start: 7 @3746 has 1 MA's), (8, 3749), (Start: 13 @3791 has 1 MA's), (14, 3833), (16, 3854), (17, 3863), (18, 3866), (20, 3872),

Gene: PharkleMinkus_22 Start: 7172, Stop: 7423, Start Num: 5

Candidate Starts for PharkleMinkus_22:

(Start: 5 @7172 has 175 MA's), (6, 7193), (10, 7217), (12, 7235), (Start: 13 @7280 has 1 MA's), (14, 7322), (16, 7343), (20, 7361),

Gene: Phlegm_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Phlegm_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Phox_13 Start: 5434, Stop: 5646, Start Num: 5

Candidate Starts for Phox_13:

(Start: 5 @5434 has 175 MA's), (6, 5455), (Start: 7 @5458 has 1 MA's), (8, 5461), (Start: 13 @5503 has 1 MA's), (14, 5545), (16, 5566), (17, 5575), (18, 5578), (20, 5584),

Gene: Phusco_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Phusco_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Pier_18 Start: 5519, Stop: 5731, Start Num: 5

Candidate Starts for Pier_18:

(Start: 5 @5519 has 175 MA's), (6, 5540), (Start: 7 @5543 has 1 MA's), (Start: 13 @5588 has 1 MA's), (14, 5630), (16, 5651), (20, 5669),

Gene: Pinkcreek_8 Start: 3823, Stop: 4035, Start Num: 5

Candidate Starts for Pinkcreek_8:

(Start: 5 @3823 has 175 MA's), (6, 3844), (Start: 7 @3847 has 1 MA's), (8, 3850), (Start: 13 @3892 has 1 MA's), (14, 3934), (16, 3955), (17, 3964), (18, 3967), (20, 3973),

Gene: Pio_19 Start: 6453, Stop: 6665, Start Num: 5

Candidate Starts for Pio_19:

(2, 6357), (Start: 5 @6453 has 175 MA's), (6, 6474), (Start: 7 @6477 has 1 MA's), (Start: 13 @6522 has 1 MA's), (14, 6564), (16, 6585), (20, 6603),

Gene: Pivoine_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Pivoine_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Pleione_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Pleione_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Primadonna_12 Start: 4953, Stop: 5204, Start Num: 5

Candidate Starts for Primadonna_12:

(Start: 5 @4953 has 175 MA's), (6, 4974), (10, 4998), (12, 5016), (Start: 13 @5061 has 1 MA's), (14, 5103), (16, 5124), (20, 5142),

Gene: Pupusa_22 Start: 7171, Stop: 7422, Start Num: 5

Candidate Starts for Pupusa_22:

(Start: 5 @7171 has 175 MA's), (6, 7192), (10, 7216), (12, 7234), (Start: 13 @7279 has 1 MA's), (14, 7321), (16, 7342), (20, 7360),

Gene: PurduePete_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for PurduePete_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: QBert_15 Start: 6039, Stop: 6248, Start Num: 5

Candidate Starts for QBert_15:

(Start: 5 @6039 has 175 MA's), (10, 6078), (12, 6096), (Start: 13 @6105 has 1 MA's), (14, 6147), (16, 6168), (20, 6186),

Gene: Quasimodo_12 Start: 4704, Stop: 4916, Start Num: 5

Candidate Starts for Quasimodo_12:

(Start: 5 @4704 has 175 MA's), (6, 4725), (Start: 7 @4728 has 1 MA's), (8, 4731), (Start: 13 @4773 has 1 MA's), (14, 4815), (16, 4836), (17, 4845), (18, 4848), (20, 4854),

Gene: Rabinovish_11 Start: 4490, Stop: 4702, Start Num: 5

Candidate Starts for Rabinovish_11:

(Start: 5 @4490 has 175 MA's), (6, 4511), (Start: 7 @4514 has 1 MA's), (8, 4517), (Start: 13 @4559 has 1 MA's), (14, 4601), (16, 4622), (17, 4631), (18, 4634), (20, 4640),

Gene: Rahel_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Rahel_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Rizal_12 Start: 3769, Stop: 3912, Start Num: 13

Candidate Starts for Rizal_12:

(1, 3547), (4, 3640), (Start: 13 @3769 has 1 MA's), (14, 3811), (16, 3832), (17, 3841), (18, 3844), (20, 3850),

Gene: RoMag_11 Start: 4598, Stop: 4810, Start Num: 5

Candidate Starts for RoMag_11:

(Start: 5 @4598 has 175 MA's), (6, 4619), (Start: 7 @4622 has 1 MA's), (Start: 13 @4667 has 1 MA's), (14, 4709), (16, 4730), (20, 4748),

Gene: Rocha_15 Start: 4847, Stop: 5059, Start Num: 5

Candidate Starts for Rocha_15:

(Start: 5 @4847 has 175 MA's), (6, 4868), (Start: 7 @4871 has 1 MA's), (Start: 13 @4916 has 1 MA's), (14, 4958), (16, 4979), (20, 4997),

Gene: Ronan_12 Start: 3875, Stop: 4087, Start Num: 5

Candidate Starts for Ronan_12:

(Start: 5 @3875 has 175 MA's), (6, 3896), (Start: 7 @3899 has 1 MA's), (8, 3902), (Start: 13 @3944 has 1 MA's), (14, 3986), (16, 4007), (17, 4016), (18, 4019), (20, 4025),

Gene: Roots515_13 Start: 4784, Stop: 4996, Start Num: 5

Candidate Starts for Roots515_13:

(Start: 5 @4784 has 175 MA's), (6, 4805), (Start: 7 @4808 has 1 MA's), (8, 4811), (Start: 13 @4853 has 1 MA's), (14, 4895), (16, 4916), (20, 4934),

Gene: SVoro_13 Start: 4779, Stop: 4991, Start Num: 5

Candidate Starts for SVoro_13:

(Start: 5 @4779 has 175 MA's), (6, 4800), (Start: 7 @4803 has 1 MA's), (8, 4806), (Start: 13 @4848 has 1 MA's), (14, 4890), (16, 4911), (17, 4920), (18, 4923), (20, 4929),

Gene: Salacia_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Salacia_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Sauce_18 Start: 5999, Stop: 6211, Start Num: 5

Candidate Starts for Sauce_18:

(2, 5903), (Start: 5 @5999 has 175 MA's), (6, 6020), (Start: 7 @6023 has 1 MA's), (Start: 13 @6068 has 1 MA's), (14, 6110), (16, 6131), (20, 6149),

Gene: ScoobyDoobyDoo_12 Start: 3583, Stop: 3774, Start Num: 9

Candidate Starts for ScoobyDoobyDoo_12:

(Start: 9 @3583 has 1 MA's), (17, 3709), (19, 3715),

Gene: ScottMcG_14 Start: 4941, Stop: 5153, Start Num: 5

Candidate Starts for ScottMcG_14:

(Start: 5 @4941 has 175 MA's), (6, 4962), (Start: 7 @4965 has 1 MA's), (8, 4968), (Start: 13 @5010 has 1 MA's), (14, 5052), (16, 5073), (17, 5082), (18, 5085), (20, 5091),

Gene: Sebata_19 Start: 6611, Stop: 6862, Start Num: 5

Candidate Starts for Sebata_19:

(Start: 5 @6611 has 175 MA's), (6, 6632), (10, 6656), (12, 6674), (Start: 13 @6719 has 1 MA's), (14, 6761), (16, 6782), (20, 6800),

Gene: Shaqnato_13 Start: 4452, Stop: 4664, Start Num: 5

Candidate Starts for Shaqnato_13:

(Start: 5 @4452 has 175 MA's), (6, 4473), (Start: 7 @4476 has 1 MA's), (8, 4479), (Start: 13 @4521 has 1 MA's), (14, 4563), (16, 4584), (20, 4602),

Gene: Shelob_16 Start: 5959, Stop: 6171, Start Num: 5

Candidate Starts for Shelob_16:

(Start: 5 @5959 has 175 MA's), (6, 5980), (Start: 7 @5983 has 1 MA's), (8, 5986), (Start: 13 @6028 has 1 MA's), (14, 6070), (16, 6091), (17, 6100), (18, 6103), (20, 6109),

Gene: ShiaLabeouf_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for ShiaLabeouf_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Shifa_9 Start: 4058, Stop: 4270, Start Num: 5

Candidate Starts for Shifa_9:

(Start: 5 @4058 has 175 MA's), (6, 4079), (Start: 7 @4082 has 1 MA's), (8, 4085), (Start: 13 @4127 has 1 MA's), (14, 4169), (16, 4190), (17, 4199), (18, 4202), (20, 4208),

Gene: Shnickers_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Shnickers_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Shrimp_13 Start: 4789, Stop: 5001, Start Num: 5

Candidate Starts for Shrimp_13:

(Start: 5 @4789 has 175 MA's), (6, 4810), (Start: 7 @4813 has 1 MA's), (8, 4816), (Start: 13 @4858 has 1 MA's), (14, 4900), (16, 4921), (17, 4930), (18, 4933), (20, 4939),

Gene: SilverDipper_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for SilverDipper_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: SmallFry_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for SmallFry_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: SoilZilla_12 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for SoilZilla_12:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Spec_11 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Spec_11:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Specks_20 Start: 6352, Stop: 6603, Start Num: 5

Candidate Starts for Specks_20:

(Start: 5 @6352 has 175 MA's), (6, 6373), (10, 6397), (12, 6415), (Start: 13 @6460 has 1 MA's), (14, 6502), (16, 6523), (20, 6541),

Gene: Sprinklers_12 Start: 3875, Stop: 4087, Start Num: 5

Candidate Starts for Sprinklers_12:

(Start: 5 @3875 has 175 MA's), (6, 3896), (Start: 7 @3899 has 1 MA's), (8, 3902), (Start: 13 @3944 has 1 MA's), (14, 3986), (16, 4007), (17, 4016), (18, 4019), (20, 4025),

Gene: Spud_19 Start: 6453, Stop: 6665, Start Num: 5

Candidate Starts for Spud_19:

(2, 6357), (Start: 5 @6453 has 175 MA's), (6, 6474), (Start: 7 @6477 has 1 MA's), (Start: 13 @6522 has 1 MA's), (14, 6564), (16, 6585), (20, 6603),

Gene: SrishMeg2525_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for SrishMeg2525_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: StephanieG_17 Start: 5544, Stop: 5756, Start Num: 5

Candidate Starts for StephanieG_17:

(2, 5448), (Start: 5 @5544 has 175 MA's), (6, 5565), (Start: 7 @5568 has 1 MA's), (Start: 13 @5613 has 1 MA's), (14, 5655), (16, 5676), (20, 5694),

Gene: Stubby_13 Start: 5191, Stop: 5403, Start Num: 5

Candidate Starts for Stubby_13:

(Start: 5 @5191 has 175 MA's), (6, 5212), (Start: 7 @5215 has 1 MA's), (8, 5218), (Start: 13 @5260 has 1 MA's), (14, 5302), (16, 5323), (17, 5332), (18, 5335), (20, 5341),

Gene: StubbySaigey_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for StubbySaigey_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Substance289_11 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Substance289_11:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Tainan_22 Start: 7171, Stop: 7422, Start Num: 5

Candidate Starts for Tainan_22:

(Start: 5 @7171 has 175 MA's), (6, 7192), (10, 7216), (12, 7234), (Start: 13 @7279 has 1 MA's), (14, 7321), (16, 7342), (20, 7360),

Gene: Teardrop_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Teardrop_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: TinyTim_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for TinyTim_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Tonenili_17 Start: 5285, Stop: 5548, Start Num: 7

Candidate Starts for Tonenili_17:

(3, 5174), (Start: 7 @5285 has 1 MA's), (11, 5309), (12, 5324), (14, 5405), (15, 5411), (20, 5444), (21, 5486), (22, 5489),

Gene: Tortoise16_11 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Tortoise16_11:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Trinitium_12 Start: 3701, Stop: 3913, Start Num: 5

Candidate Starts for Trinitium_12:

(Start: 5 @3701 has 175 MA's), (6, 3722), (Start: 7 @3725 has 1 MA's), (8, 3728), (Start: 13 @3770 has 1 MA's), (14, 3812), (16, 3833), (17, 3842), (18, 3845), (20, 3851),

Gene: Turret_12 Start: 3684, Stop: 3896, Start Num: 5

Candidate Starts for Turret_12:

(Start: 5 @3684 has 175 MA's), (6, 3705), (Start: 7 @3708 has 1 MA's), (8, 3711), (Start: 13 @3753 has 1 MA's), (14, 3795), (16, 3816), (17, 3825), (18, 3828), (20, 3834),

Gene: Tyke_18 Start: 5929, Stop: 6141, Start Num: 5

Candidate Starts for Tyke_18:

(2, 5833), (Start: 5 @5929 has 175 MA's), (6, 5950), (Start: 7 @5953 has 1 MA's), (Start: 13 @5998 has 1 MA's), (14, 6040), (16, 6061), (20, 6079),

Gene: ValleyTerrace_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for ValleyTerrace_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Vortrix_18 Start: 5555, Stop: 5818, Start Num: 7

Candidate Starts for Vortrix_18:

(3, 5444), (Start: 7 @5555 has 1 MA's), (11, 5579), (12, 5594), (14, 5675), (15, 5681), (20, 5714), (21, 5756), (22, 5759),

Gene: Wally_12 Start: 3705, Stop: 3917, Start Num: 5

Candidate Starts for Wally_12:

(Start: 5 @3705 has 175 MA's), (6, 3726), (Start: 7 @3729 has 1 MA's), (8, 3732), (Start: 13 @3774 has 1 MA's), (14, 3816), (16, 3837), (17, 3846), (18, 3849), (20, 3855),

Gene: Willis_12 Start: 4710, Stop: 4922, Start Num: 5

Candidate Starts for Willis_12:

(Start: 5 @4710 has 175 MA's), (6, 4731), (Start: 7 @4734 has 1 MA's), (8, 4737), (Start: 13 @4779 has 1 MA's), (14, 4821), (16, 4842), (17, 4851), (18, 4854), (20, 4860),

Gene: Yassified_12 Start: 3898, Stop: 4110, Start Num: 5

Candidate Starts for Yassified_12:

(Start: 5 @3898 has 175 MA's), (6, 3919), (Start: 7 @3922 has 1 MA's), (8, 3925), (Start: 13 @3967 has 1 MA's), (14, 4009), (16, 4030), (17, 4039), (18, 4042), (20, 4048),

Gene: YemiJoy2021_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for YemiJoy2021_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: YoungMoneyMata_12 Start: 3703, Stop: 3915, Start Num: 5

Candidate Starts for YoungMoneyMata_12:

(Start: 5 @3703 has 175 MA's), (6, 3724), (Start: 7 @3727 has 1 MA's), (8, 3730), (Start: 13 @3772 has 1 MA's), (14, 3814), (16, 3835), (17, 3844), (18, 3847), (20, 3853),

Gene: Yucca_12 Start: 4707, Stop: 4919, Start Num: 5

Candidate Starts for Yucca_12:

(Start: 5 @4707 has 175 MA's), (6, 4728), (Start: 7 @4731 has 1 MA's), (8, 4734), (Start: 13 @4776 has 1 MA's), (14, 4818), (16, 4839), (17, 4848), (18, 4851), (20, 4857),

Gene: Zalkecks_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for Zalkecks_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),

Gene: Zeenon_14 Start: 4786, Stop: 4998, Start Num: 5

Candidate Starts for Zeenon_14:

(Start: 5 @4786 has 175 MA's), (6, 4807), (Start: 7 @4810 has 1 MA's), (8, 4813), (Start: 13 @4855 has 1 MA's), (14, 4897), (16, 4918), (17, 4927), (18, 4930), (20, 4936),

Gene: ZygoTaiga_13 Start: 4785, Stop: 4997, Start Num: 5

Candidate Starts for ZygoTaiga_13:

(Start: 5 @4785 has 175 MA's), (6, 4806), (Start: 7 @4809 has 1 MA's), (8, 4812), (Start: 13 @4854 has 1 MA's), (14, 4896), (16, 4917), (17, 4926), (18, 4929), (20, 4935),