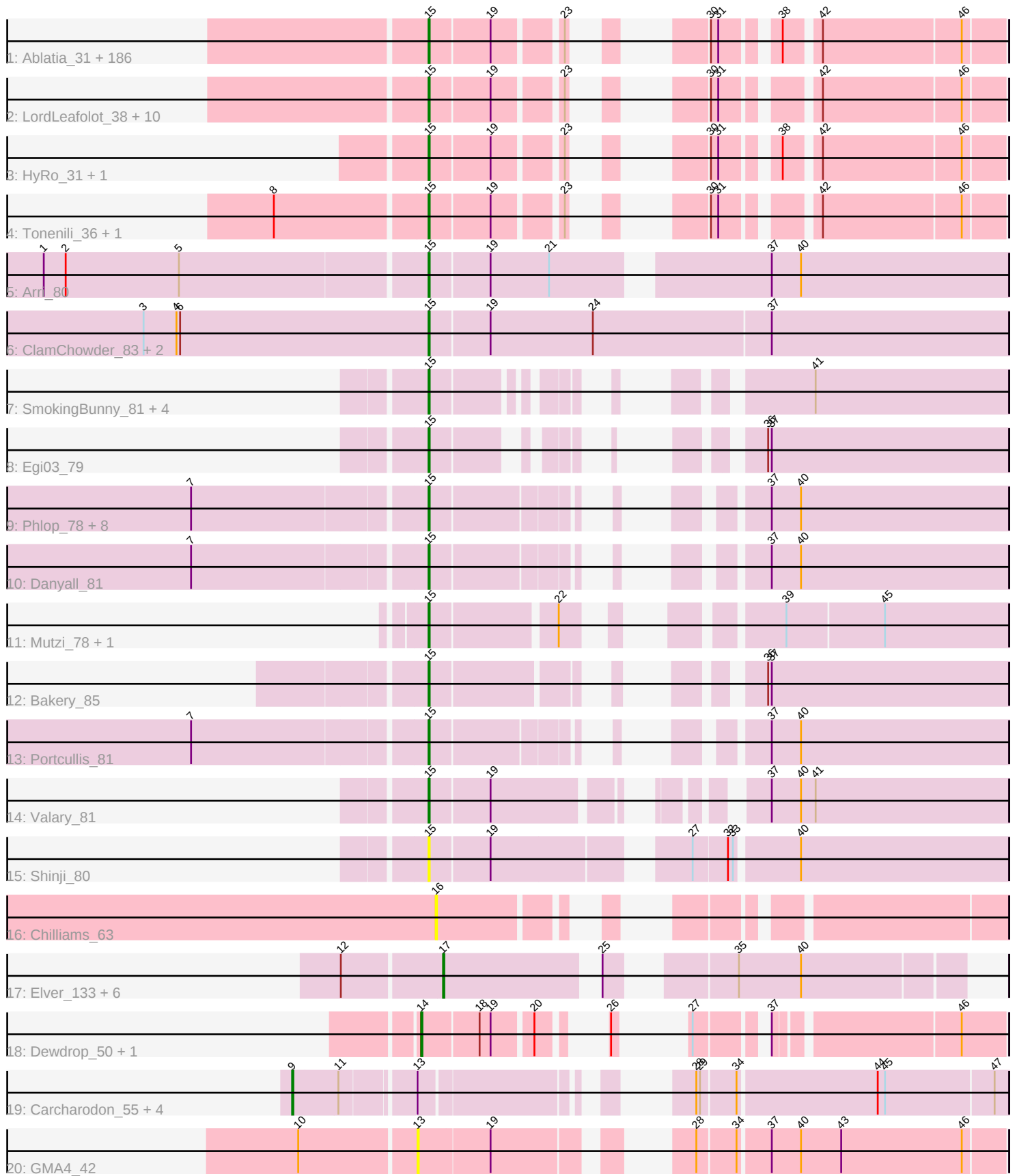


Pham 280067



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 280067 Report

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

Pham number 280067 has 244 members, 42 are drafts.

Phages represented in each track:

- Track 1 : Ablatia_31, Matsumoto_31, Bowman_31, MoMoMixon_33, Issimir_32, Gizmo_34, Astraea_33, Blackbrain_30, BeanWater_28, Rahel_32, JayJay_35, Darko_31, Maby2021_33, Bezza_24, LifeSavor_33, Essence_31, Caravan_30, Pio_35, ArcherS7_31, Grungle_25, Drazdys_32, Mangeria_35, McWolfish_31, Ewok_32, Phlegm_34, DTDevon_33, Napoleon13_31, YemiJoy2021_33, Phox_31, Bangla1971_31, Kboogie_32, Montpel_31, Asterius_33, Specks_37, Lee7_31, ET08_27, Pleione_34, Shaqnato_28, Tortoise16_31, InigoMontoya_33, JustHall_31, Morizzled23_31, Ading_32, Shrimp_32, ChickenPhender_31, BananaFence_33, Adlitam_32, EmToTheThree_35, Bigswole_38, PurduePete_31, Koguma_28, Izajani_33, CindyLou_32, InterFolia_39, Rizal_30, Substance289_29, ChaylaJr_31, FudgeTart_33, NedWong_33, CharlieB_32, Tyke_34, Latch_32, Zalkecks_34, Trinitium_31, Bxz1_32, Iota_29, Pier_34, SrishMeg2525_31, LRRHood_29, Daffodil_34, TinyTim_32, Amataga_32, Cactojaque_29, Bread_33, SmallFry_32, Duckfeet_29, Phusco_32, EggyFarm_36, Littleton_32, Concombre_31, StubbySaigey_31, Atlantean_32, Yucca_32, Janiyr_32, Norm_32, Khaleesi_31, Sauce_33, IkeLoa_28, ParkTD_31, ErnieJ_33, Lunareta_31, BobaPhatt_29, Burrough_32, Sprinklers_32, Ronan_27, Fongie_32, Lukilu_25, LolaVinca_35, FoxtrotP1_32, ShiaLabeouf_32, Jezreel_31, ValleyTerrace_32, Chomp_32, Gamgam_32, Derek_33, Basquiat_31, Capablanca_34, BigCity_36, JulietS_27, MikeLiesIn_32, Delilah_32, Breeniome_32, Jessibeth14_31, Momo_31, Jedediah_32, Halldule_28, Gabriel_32, Loanshark_32, Naval22_34, Turret_30, NoodleTree_31, EmmaElysia_30, Lethe_31, Babyland_31, Erdmann_33, SVoro_31, EasyJones_31, Kamryn_32, Blackdragon_27, Nidhogg_33, Dessert_30, Guwapp_32, Dandelion_36, Patter_32, Cali_32, Spec_30, RoMag_27, Melpomini_31, SilverDipper_33, Rocha_30, Audrick_34, JigglyPuff_32, DrPhinkDaddy_32, Demodog_30, Sebata_32, Shnickers_32, Willis_32, Pivoine_32, Labradorite_31, Jemmno_32, Bipolarisk_31, YoungMoneyMata_32, JPickles_30, Yassified_29, Nappy_33, Belieber_28, Grasshills_36, Spud_34, Salacia_34, BadAgartude_33, Wally_31, Naija_32, Catera_30, LookingGlass_35, Mikro_30, Fludd_31, Quasimodo_32, QBert_30, McGee_31, Ngannou_30, ScottMcG_32, ZygoTaiga_32, Megamind_32, Teardrop_31, OrediggerDelux_31, Fixie_29, Ghost_32, BackyardAgain_29, GlutenPhree_33, Zeenon_34, Ava3_33, StephanieG_32, NuevoMundo_35, Chargie21_31, Bonray_32, Jaygup_32, Roots515_32
- Track 2 : LordLeafolot_38, Primadonna_27, FrayBell_38, Cleatunium_28, Dietrick_27, PharkleMinkus_37, Tainan_37, DirtMonster_31, Blubba_26, Domi_27, I3_34
- Track 3 : HyRo_31, Shifa_29

- Track 4 : Tonenili_36, Vortrix_38
- Track 5 : Arri_80
- Track 6 : ClamChowder_83, Barb_83, Fugax_84
- Track 7 : SmokingBunny_81, Salvador_80, Evamon_80, Twister6_81, Togo_80
- Track 8 : Egi03_79
- Track 9 : Phlop_78, PullumCavea_79, CherryCola_81, RogerDodger_84, KimmyK_80, Gezellig_77, Halo3_78, Wizard_77, CoveyB_81
- Track 10 : Danyall_81
- Track 11 : Mutzi_78, YungMoney_79
- Track 12 : Bakery_85
- Track 13 : Portcullis_81
- Track 14 : Valary_81
- Track 15 : Shinji_80
- Track 16 : Chilliams_63
- Track 17 : Elver_133, Gandionco_129, Qui_133, Marianna39_130, JeNeSaisPas_127, Kureo_130, Paella_133
- Track 18 : Dewdrop_50, Leaf_50
- Track 19 : Carcharodon_55, Phloss_53, Smurph_55, Parmesanjohn_55, Schnauzer_56
- Track 20 : GMA4_42

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

The start number called the most often in the published annotations is 15, it was called in 192 of the 202 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Ablatia_31, Ading_32, Adlitam_32, Amataga_32, ArcherS7_31, Arri_80, Asterius_33, Astraea_33, Atlantean_32, Audrick_34, Ava3_33, Babyland_31, BackyardAgain_29, BadAgartude_33, Bakery_85, BananaFence_33, Bangla1971_31, Barb_83, Basquiat_31, BeanWater_28, Belieber_28, Bezza_24, BigCity_36, Bigswole_38, Bipolarisk_31, Blackbrain_30, Blackdragon_27, Blubba_26, BobaPhatt_29, Bonray_32, Bowman_31, Bread_33, Breeniome_32, Burrough_32, Bxz1_32, Cactojaque_29, Cali_32, Capablanca_34, Caravan_30, Catera_30, Chargie21_31, CharlieB_32, ChaylaJr_31, CherryCola_81, ChickenPhender_31, Chomp_32, CindyLou_32, ClamChowder_83, Cleatunium_28, Concombre_31, CoveyB_81, DTDevon_33, Daffodil_34, Dandelion_36, Danyall_81, Darko_31, Delilah_32, Demodog_30, Derek_33, Dessert_30, Dietrick_27, DirtMonster_31, Domi_27, DrPhinkDaddy_32, Drazdys_32, Duckfeet_29, ET08_27, EasyJones_31, EgggyFarm_36, Egi03_79, EmToTheThree_35, EmmaElysia_30, Erdmann_33, ErnieJ_33, Essence_31, Evamon_80, Ewok_32, Fixie_29, Fludd_31, Fongie_32, FoxtrotP1_32, FrayBell_38, FudgeTart_33, Fugax_84, Gabriel_32, Gamgam_32, Gezellig_77, Ghost_32, Gizmo_34, GlutenPhree_33, Grasshills_36, Grungle_25, Guwapp_32, Halldule_28, Halo3_78, HyRo_31, I3_34, IkeLoa_28, InigoMontoya_33, InterFolia_39, Iota_29, Issimir_32, Izajani_33, JPickles_30, Janiyra_32, JayJay_35, Jaygup_32, Jedediah_32, Jemmno_32, Jessibeth14_31, Jezreel_31, JigglyPuff_32, JulietS_27, JustHall_31, Kamryn_32, Kboogie_32, Khaleesi_31, KimmyK_80, Koguma_28, LRRHood_29, Labradorite_31, Latch_32, Lee7_31, Lethe_31, LifeSavor_33, Littleton_32, Loanshark_32, LolaVinca_35, LookingGlass_35, LordLeafot_38, Lukilu_25, Lunareta_31, Maby2021_33, Mangeria_35,

Matsumoto_31, McGee_31, McWolfish_31, Megamind_32, Melpomini_31, MikeLiesIn_32, Mikro_30, MoMoMixon_33, Momo_31, Montpel_31, Morizzled23_31, Mutzi_78, Naija_32, Napoleon13_31, Nappy_33, Naval22_34, NedWong_33, Ngannou_30, Nidhogg_33, NoodleTree_31, Norm_32, NuevoMundo_35, OrediggerDelux_31, ParkTD_31, Patter_32, PharkleMinkus_37, Phlegm_34, Phlop_78, Phox_31, Phusco_32, Pier_34, Pio_35, Pivoine_32, Pleione_34, Portcullis_81, Primadonna_27, PullumCavea_79, PurduePete_31, QBert_30, Quasimodo_32, Rahel_32, Rizal_30, RoMag_27, Rocha_30, RogerDodger_84, Ronan_27, Roots515_32, SVoro_31, Salacia_34, Salvador_80, Sauce_33, ScottMcG_32, Sebata_32, Shaqnato_28, ShiaLabeouf_32, Shifa_29, Shinji_80, Shnickers_32, Shrimp_32, SilverDipper_33, SmallFry_32, SmokingBunny_81, Spec_30, Specks_37, Sprinklers_32, Spud_34, SrishMeg2525_31, StephanieG_32, StubbySaigey_31, Substance289_29, Tainan_37, Teardrop_31, TinyTim_32, Togo_80, Tonenili_36, Tortoise16_31, Trinitium_31, Turret_30, Twister6_81, Tyke_34, Valary_81, ValleyTerrace_32, Vortrix_38, Wally_31, Willis_32, Wizard_77, Yassified_29, YemiJoy2021_33, YoungMoneyMata_32, Yucca_32, YungMoney_79, Zalkecks_34, Zeenon_34, ZygoTaiga_32,

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

-

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

- Carcharodon_55, Chilliamps_63, Dewdrop_50, Elver_133, GMA4_42, Gandionco_129, JeNeSaisPas_127, Kureo_130, Leaf_50, Marianna39_130, Paella_133, Parmesanjohn_55, Phloss_53, Qui_133, Schnauzer_56, Smurph_55,

Summary by start number:

Start 9:

- Found in 5 of 244 (2.0%) of genes in pham
- Manual Annotations of this start: 5 of 202
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Carcharodon_55 (N), Parmesanjohn_55 (N), Phloss_53 (N), Schnauzer_56 (N), Smurph_55 (N),

Start 13:

- Found in 6 of 244 (2.5%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: GMA4_42 (singleton),

Start 14:

- Found in 2 of 244 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 202
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dewdrop_50 (GC), Leaf_50 (GC),

Start 15:

- Found in 228 of 244 (93.4%) of genes in pham
- Manual Annotations of this start: 192 of 202
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ablatia_31 (C1), Ading_32 (C1), Adlitam_32 (C1), Amataga_32 (C1), ArcherS7_31 (C1), Arri_80 (DC1), Asterius_33

(C1), Astraea_33 (C1), Atlantean_32 (C1), Audrick_34 (C1), Ava3_33 (C1), Babyland_31 (C1), BackyardAgain_29 (C1), BadAgartude_33 (C1), Bakery_85 (DC1), BananaFence_33 (C1), Bangla1971_31 (C1), Barb_83 (DC1), Basquiat_31 (C1), BeanWater_28 (C1), Belieber_28 (C1), Bezza_24 (C1), BigCity_36 (C1), Bigswole_38 (C1), Bipolarisk_31 (C1), Blackbrain_30 (C1), Blackdragon_27 (C1), Blubba_26 (C1), BobaPhatt_29 (C1), Bonray_32 (C1), Bowman_31 (C1), Bread_33 (C1), Breeniome_32 (C1), Burrough_32 (C1), Bxz1_32 (C1), Cactojaque_29 (C1), Cali_32 (C1), Capablanca_34 (C1), Caravan_30 (C1), Catera_30 (C1), Chargie21_31 (C1), CharlieB_32 (C1), ChaylaJr_31 (C1), CherryCola_81 (DC1), ChickenPhender_31 (C1), Chomp_32 (C1), CindyLou_32 (C1), ClamChowder_83 (DC1), Cleatunium_28 (C1), Concombre_31 (C1), CoveyB_81 (DC1), DTDevon_33 (C1), Daffodil_34 (C1), Dandelion_36 (C1), Danyall_81 (DC1), Darko_31 (C1), Delilah_32 (C1), Demodog_30 (C1), Derek_33 (C1), Dessert_30 (C1), Dietrick_27 (C1), DirtMonster_31 (C1), Domi_27 (C1), DrPhinkDaddy_32 (C1), Drazdys_32 (C1), Duckfeet_29 (C1), ET08_27 (C1), EasyJones_31 (C1), EggyFarm_36 (C1), Egi03_79 (DC1), EmToTheThree_35 (C1), EmmaElysia_30 (C1), Erdmann_33 (C1), ErnieJ_33 (C1), Essence_31 (C1), Evamon_80 (DC1), Ewok_32 (C1), Fixie_29 (C1), Fludd_31 (C1), Fongie_32 (C1), FoxtrotP1_32 (C1), FrayBell_38 (C1), FudgeTart_33 (C1), Fugax_84 (DC1), Gabriel_32 (C1), Gangam_32 (C1), Gezellig_77 (DC1), Ghost_32 (C1), Gizmo_34 (C1), GlutenPhree_33 (C1), Grasshills_36 (C1), Grungle_25 (C1), Guwapp_32 (C1), Halldule_28 (C1), Halo3_78 (DC1), HyRo_31 (C1), I3_34 (C1), IkeLoa_28 (C1), InigoMontoya_33 (C1), InterFolia_39 (C1), Iota_29 (C1), Issimir_32 (C1), Izajani_33 (C1), JPickles_30 (C1), Janiyr_32 (C1), JayJay_35 (C1), Jaygup_32 (C1), Jedediah_32 (C1), Jemmno_32 (C1), Jessibeth14_31 (C1), Jezreel_31 (C1), JigglyPuff_32 (C1), JulietS_27 (C1), JustHall_31 (C1), Kamryn_32 (C1), Kboogie_32 (C1), Khaleesi_31 (C1), KimmyK_80 (DC1), Koguma_28 (C1), LRRHood_29 (C1), Labradorite_31 (C1), Latch_32 (C1), Lee7_31 (C1), Lethe_31 (C1), LifeSavor_33 (C1), Littleton_32 (C1), Loanshark_32 (C1), LolaVinca_35 (C1), LookingGlass_35 (C1), LordLeafolot_38 (C1), Lukilu_25 (C1), Lunareta_31 (C1), Maby2021_33 (C1), Mangeria_35 (C1), Matsumoto_31 (C1), McGee_31 (C1), McWolfish_31 (C1), Megamind_32 (C1), Melpomini_31 (C1), MikeLiesIn_32 (C1), Mikro_30 (C1), MoMoMixon_33 (C1), Momo_31 (C1), Montpel_31 (C1), Morizzled23_31 (C1), Mutzi_78 (DC1), Naija_32 (C1), Napoleon13_31 (C1), Nappy_33 (C1), Naval22_34 (C1), NedWong_33 (C1), Ngannou_30 (C1), Nidhogg_33 (C1), NoodleTree_31 (C1), Norm_32 (C1), NuevoMundo_35 (C1), OrediggerDelux_31 (C1), ParkTD_31 (C1), Patter_32 (C1), PharkleMinkus_37 (C1), Phlegm_34 (C1), Phlop_78 (DC1), Phox_31 (C1), Phusco_32 (C1), Pier_34 (C1), Pio_35 (C1), Pivoine_32 (C1), Pleione_34 (C1), Portcullis_81 (DC1), Primadonna_27 (C1), PullumCavea_79 (DC1), PurduePete_31 (C1), QBert_30 (C1), Quasimodo_32 (C1), Rahel_32 (C1), Rizal_30 (C1), RoMag_27 (C1), Rocha_30 (C1), RogerDodger_84 (DC1), Ronan_27 (C1), Roots515_32 (C1), SVoro_31 (C1), Salacia_34 (C1), Salvador_80 (DC1), Sauce_33 (C1), ScottMcG_32 (C1), Sebata_32 (C1), Shaqnato_28 (C1), Shialabeouf_32 (C1), Shifa_29 (C1), Shinji_80 (DC1), Shnickers_32 (C1), Shrimp_32 (C1), SilverDipper_33 (C1), SmallFry_32 (C1), SmokingBunny_81 (DC1), Spec_30 (C1), Specks_37 (C1), Sprinklers_32 (C1), Spud_34 (C1), SrishMeg2525_31 (C1), StephanieG_32 (C1), StubbySaigey_31 (C1), Substance289_29 (C1), Tainan_37 (C1), Teardrop_31 (C1), TinyTim_32 (C1), Togo_80 (DC1), Tonerili_36 (C1), Tortoise16_31 (C1), Trinitium_31 (C1), Turret_30 (C1), Twister6_81 (DC1), Tyke_34 (C1), Valary_81 (DC1), ValleyTerrace_32 (C1), Vortrix_38 (C1), Wally_31 (C1), Willis_32 (C1), Wizard_77 (DC1), Yassified_29 (C1), YemiJoy2021_33 (C1), YoungMoneyMata_32 (C1), Yucca_32 (C1), YungMoney_79 (DC1), Zalkecks_34 (C1), Zeenon_34 (C1), ZygoTaiga_32 (C1),

Start 16:

- Found in 1 of 244 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chilliamps_63 (FC),

Start 17:

- Found in 7 of 244 (2.9%) of genes in pham
- Manual Annotations of this start: 3 of 202
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver_133 (FK), Gandionco_129 (FK), JeNeSaisPas_127 (FK), Kureo_130 (FK), Marianna39_130 (FK), Paella_133 (FK), Qui_133 (FK),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, N, FC, GC, C1, FK, DC1,

Info for manual annotations of cluster C1:

- Start number 15 was manually annotated 168 times for cluster C1.

Info for manual annotations of cluster DC1:

- Start number 15 was manually annotated 24 times for cluster DC1.

Info for manual annotations of cluster FK:

- Start number 17 was manually annotated 3 times for cluster FK.

Info for manual annotations of cluster GC:

- Start number 14 was manually annotated 2 times for cluster GC.

Info for manual annotations of cluster N:

- Start number 9 was manually annotated 5 times for cluster N.

Gene Information:

Gene: Ablatia_31 Start: 10089, Stop: 10439, Start Num: 15

Candidate Starts for Ablatia_31:

(Start: 15 @10089 has 192 MA's), (19, 10137), (23, 10185), (30, 10230), (31, 10236), (38, 10272), (42, 10296), (46, 10407),

Gene: Ading_32 Start: 10352, Stop: 10702, Start Num: 15

Candidate Starts for Ading_32:

(Start: 15 @10352 has 192 MA's), (19, 10400), (23, 10448), (30, 10493), (31, 10499), (38, 10535), (42, 10559), (46, 10670),

Gene: Adlitam_32 Start: 10369, Stop: 10719, Start Num: 15

Candidate Starts for Adlitam_32:

(Start: 15 @10369 has 192 MA's), (19, 10417), (23, 10465), (30, 10510), (31, 10516), (38, 10552), (42, 10576), (46, 10687),

Gene: Amataga_32 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for Amataga_32:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: ArcherS7_31 Start: 10363, Stop: 10713, Start Num: 15

Candidate Starts for ArcherS7_31:

(Start: 15 @10363 has 192 MA's), (19, 10411), (23, 10459), (30, 10504), (31, 10510), (38, 10546), (42, 10570), (46, 10681),

Gene: Arri_80 Start: 52921, Stop: 53367, Start Num: 15

Candidate Starts for Arri_80:

(1, 52615), (2, 52633), (5, 52726), (Start: 15 @52921 has 192 MA's), (19, 52969), (21, 53017), (37, 53173), (40, 53197),

Gene: Asterius_33 Start: 10638, Stop: 10988, Start Num: 15

Candidate Starts for Asterius_33:

(Start: 15 @10638 has 192 MA's), (19, 10686), (23, 10734), (30, 10779), (31, 10785), (38, 10821), (42, 10845), (46, 10956),

Gene: Astraea_33 Start: 10543, Stop: 10893, Start Num: 15

Candidate Starts for Astraea_33:

(Start: 15 @10543 has 192 MA's), (19, 10591), (23, 10639), (30, 10684), (31, 10690), (38, 10726), (42, 10750), (46, 10861),

Gene: Atlantean_32 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for Atlantean_32:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: Audrick_34 Start: 10352, Stop: 10702, Start Num: 15

Candidate Starts for Audrick_34:

(Start: 15 @10352 has 192 MA's), (19, 10400), (23, 10448), (30, 10493), (31, 10499), (38, 10535), (42, 10559), (46, 10670),

Gene: Ava3_33 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for Ava3_33:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: Babyland_31 Start: 9811, Stop: 10161, Start Num: 15

Candidate Starts for Babyland_31:

(Start: 15 @9811 has 192 MA's), (19, 9859), (23, 9907), (30, 9952), (31, 9958), (38, 9994), (42, 10018), (46, 10129),

Gene: BackyardAgain_29 Start: 9792, Stop: 10142, Start Num: 15

Candidate Starts for BackyardAgain_29:

(Start: 15 @9792 has 192 MA's), (19, 9840), (23, 9888), (30, 9933), (31, 9939), (38, 9975), (42, 9999), (46, 10110),

Gene: BadAgartude_33 Start: 11005, Stop: 11355, Start Num: 15

Candidate Starts for BadAgartude_33:

(Start: 15 @11005 has 192 MA's), (19, 11053), (23, 11101), (30, 11146), (31, 11152), (38, 11188), (42, 11212), (46, 11323),

Gene: Bakery_85 Start: 55359, Stop: 55733, Start Num: 15

Candidate Starts for Bakery_85:

(Start: 15 @55359 has 192 MA's), (36, 55536), (37, 55539),

Gene: BananaFence_33 Start: 10802, Stop: 11152, Start Num: 15

Candidate Starts for BananaFence_33:

(Start: 15 @10802 has 192 MA's), (19, 10850), (23, 10898), (30, 10943), (31, 10949), (38, 10985), (42, 11009), (46, 11120),

Gene: Bangla1971_31 Start: 10369, Stop: 10719, Start Num: 15

Candidate Starts for Bangla1971_31:

(Start: 15 @10369 has 192 MA's), (19, 10417), (23, 10465), (30, 10510), (31, 10516), (38, 10552), (42, 10576), (46, 10687),

Gene: Barb_83 Start: 53513, Stop: 53983, Start Num: 15

Candidate Starts for Barb_83:

(3, 53279), (4, 53306), (6, 53309), (Start: 15 @53513 has 192 MA's), (19, 53561), (24, 53645), (37, 53789),

Gene: Basquiat_31 Start: 9792, Stop: 10142, Start Num: 15

Candidate Starts for Basquiat_31:

(Start: 15 @9792 has 192 MA's), (19, 9840), (23, 9888), (30, 9933), (31, 9939), (38, 9975), (42, 9999), (46, 10110),

Gene: BeanWater_28 Start: 10762, Stop: 11112, Start Num: 15

Candidate Starts for BeanWater_28:

(Start: 15 @10762 has 192 MA's), (19, 10810), (23, 10858), (30, 10903), (31, 10909), (38, 10945), (42, 10969), (46, 11080),

Gene: Belieber_28 Start: 9559, Stop: 9909, Start Num: 15

Candidate Starts for Belieber_28:

(Start: 15 @9559 has 192 MA's), (19, 9607), (23, 9655), (30, 9700), (31, 9706), (38, 9742), (42, 9766), (46, 9877),

Gene: Bezza_24 Start: 9438, Stop: 9788, Start Num: 15

Candidate Starts for Bezza_24:

(Start: 15 @9438 has 192 MA's), (19, 9486), (23, 9534), (30, 9579), (31, 9585), (38, 9621), (42, 9645), (46, 9756),

Gene: BigCity_36 Start: 11898, Stop: 12248, Start Num: 15

Candidate Starts for BigCity_36:

(Start: 15 @11898 has 192 MA's), (19, 11946), (23, 11994), (30, 12039), (31, 12045), (38, 12081), (42, 12105), (46, 12216),

Gene: Bigswole_38 Start: 12708, Stop: 13058, Start Num: 15

Candidate Starts for Bigswole_38:

(Start: 15 @12708 has 192 MA's), (19, 12756), (23, 12804), (30, 12849), (31, 12855), (38, 12891), (42, 12915), (46, 13026),

Gene: Bipolarisk_31 Start: 10629, Stop: 10979, Start Num: 15

Candidate Starts for Bipolarisk_31:

(Start: 15 @10629 has 192 MA's), (19, 10677), (23, 10725), (30, 10770), (31, 10776), (38, 10812), (42, 10836), (46, 10947),

Gene: Blackbrain_30 Start: 9608, Stop: 9958, Start Num: 15

Candidate Starts for Blackbrain_30:

(Start: 15 @9608 has 192 MA's), (19, 9656), (23, 9704), (30, 9749), (31, 9755), (38, 9791), (42, 9815), (46, 9926),

Gene: Blackdragon_27 Start: 9394, Stop: 9744, Start Num: 15

Candidate Starts for Blackdragon_27:

(Start: 15 @9394 has 192 MA's), (19, 9442), (23, 9490), (30, 9535), (31, 9541), (38, 9577), (42, 9601), (46, 9712),

Gene: Blubba_26 Start: 9089, Stop: 9439, Start Num: 15

Candidate Starts for Blubba_26:

(Start: 15 @9089 has 192 MA's), (19, 9137), (23, 9185), (30, 9230), (31, 9236), (42, 9296), (46, 9407),

Gene: BobaPhatt_29 Start: 9803, Stop: 10153, Start Num: 15

Candidate Starts for BobaPhatt_29:

(Start: 15 @9803 has 192 MA's), (19, 9851), (23, 9899), (30, 9944), (31, 9950), (38, 9986), (42, 10010), (46, 10121),

Gene: Bonray_32 Start: 10906, Stop: 11256, Start Num: 15

Candidate Starts for Bonray_32:

(Start: 15 @10906 has 192 MA's), (19, 10954), (23, 11002), (30, 11047), (31, 11053), (38, 11089), (42, 11113), (46, 11224),

Gene: Bowman_31 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for Bowman_31:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: Bread_33 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for Bread_33:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: Breeniome_32 Start: 9801, Stop: 10151, Start Num: 15

Candidate Starts for Breeniome_32:

(Start: 15 @9801 has 192 MA's), (19, 9849), (23, 9897), (30, 9942), (31, 9948), (38, 9984), (42, 10008), (46, 10119),

Gene: Burrough_32 Start: 10629, Stop: 10979, Start Num: 15

Candidate Starts for Burrough_32:

(Start: 15 @10629 has 192 MA's), (19, 10677), (23, 10725), (30, 10770), (31, 10776), (38, 10812), (42, 10836), (46, 10947),

Gene: Bxz1_32 Start: 11378, Stop: 11728, Start Num: 15

Candidate Starts for Bxz1_32:

(Start: 15 @11378 has 192 MA's), (19, 11426), (23, 11474), (30, 11519), (31, 11525), (38, 11561), (42, 11585), (46, 11696),

Gene: Cactojaque_29 Start: 9497, Stop: 9847, Start Num: 15

Candidate Starts for Cactojaque_29:

(Start: 15 @9497 has 192 MA's), (19, 9545), (23, 9593), (30, 9638), (31, 9644), (38, 9680), (42, 9704), (46, 9815),

Gene: Cali_32 Start: 11939, Stop: 12289, Start Num: 15

Candidate Starts for Cali_32:

(Start: 15 @11939 has 192 MA's), (19, 11987), (23, 12035), (30, 12080), (31, 12086), (38, 12122), (42, 12146), (46, 12257),

Gene: Capablanca_34 Start: 11498, Stop: 11848, Start Num: 15

Candidate Starts for Capablanca_34:

(Start: 15 @11498 has 192 MA's), (19, 11546), (23, 11594), (30, 11639), (31, 11645), (38, 11681), (42, 11705), (46, 11816),

Gene: Caravan_30 Start: 10188, Stop: 10538, Start Num: 15

Candidate Starts for Caravan_30:

(Start: 15 @10188 has 192 MA's), (19, 10236), (23, 10284), (30, 10329), (31, 10335), (38, 10371), (42, 10395), (46, 10506),

Gene: Carcharodon_55 Start: 36177, Stop: 36665, Start Num: 9

Candidate Starts for Carcharodon_55:

(Start: 9 @36177 has 5 MA's), (11, 36213), (13, 36267), (28, 36420), (29, 36423), (34, 36450), (44, 36561), (45, 36567), (47, 36654),

Gene: Catera_30 Start: 9796, Stop: 10146, Start Num: 15

Candidate Starts for Catera_30:

(Start: 15 @9796 has 192 MA's), (19, 9844), (23, 9892), (30, 9937), (31, 9943), (38, 9979), (42, 10003), (46, 10114),

Gene: Chargie21_31 Start: 9792, Stop: 10142, Start Num: 15

Candidate Starts for Chargie21_31:

(Start: 15 @9792 has 192 MA's), (19, 9840), (23, 9888), (30, 9933), (31, 9939), (38, 9975), (42, 9999), (46, 10110),

Gene: CharlieB_32 Start: 9937, Stop: 10287, Start Num: 15

Candidate Starts for CharlieB_32:

(Start: 15 @9937 has 192 MA's), (19, 9985), (23, 10033), (30, 10078), (31, 10084), (38, 10120), (42, 10144), (46, 10255),

Gene: ChaylaJr_31 Start: 9879, Stop: 10229, Start Num: 15

Candidate Starts for ChaylaJr_31:

(Start: 15 @9879 has 192 MA's), (19, 9927), (23, 9975), (30, 10020), (31, 10026), (38, 10062), (42, 10086), (46, 10197),

Gene: CherryCola_81 Start: 53607, Stop: 53978, Start Num: 15

Candidate Starts for CherryCola_81:

(7, 53424), (Start: 15 @53607 has 192 MA's), (37, 53784), (40, 53808),

Gene: ChickenPhender_31 Start: 9837, Stop: 10187, Start Num: 15

Candidate Starts for ChickenPhender_31:

(Start: 15 @9837 has 192 MA's), (19, 9885), (23, 9933), (30, 9978), (31, 9984), (38, 10020), (42, 10044), (46, 10155),

Gene: Chilliams_63 Start: 29204, Stop: 29557, Start Num: 16

Candidate Starts for Chilliams_63:

(16, 29204),

Gene: Chomp_32 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for Chomp_32:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: CindyLou_32 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for CindyLou_32:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: ClamChowder_83 Start: 53513, Stop: 53983, Start Num: 15

Candidate Starts for ClamChowder_83:

(3, 53279), (4, 53306), (6, 53309), (Start: 15 @53513 has 192 MA's), (19, 53561), (24, 53645), (37, 53789),

Gene: Cleatunium_28 Start: 10068, Stop: 10418, Start Num: 15

Candidate Starts for Cleatunium_28:

(Start: 15 @10068 has 192 MA's), (19, 10116), (23, 10164), (30, 10209), (31, 10215), (42, 10275), (46, 10386),

Gene: Concombre_31 Start: 11144, Stop: 11494, Start Num: 15

Candidate Starts for Concombre_31:

(Start: 15 @11144 has 192 MA's), (19, 11192), (23, 11240), (30, 11285), (31, 11291), (38, 11327), (42, 11351), (46, 11462),

Gene: CoveyB_81 Start: 53099, Stop: 53470, Start Num: 15

Candidate Starts for CoveyB_81:

(7, 52916), (Start: 15 @53099 has 192 MA's), (37, 53276), (40, 53300),

Gene: DTDevon_33 Start: 11537, Stop: 11887, Start Num: 15

Candidate Starts for DTDevon_33:

(Start: 15 @11537 has 192 MA's), (19, 11585), (23, 11633), (30, 11678), (31, 11684), (38, 11720), (42, 11744), (46, 11855),

Gene: Daffodil_34 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for Daffodil_34:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: Dandelion_36 Start: 12233, Stop: 12583, Start Num: 15

Candidate Starts for Dandelion_36:

(Start: 15 @12233 has 192 MA's), (19, 12281), (23, 12329), (30, 12374), (31, 12380), (38, 12416), (42, 12440), (46, 12551),

Gene: Danyall_81 Start: 52793, Stop: 53164, Start Num: 15

Candidate Starts for Danyall_81:

(7, 52610), (Start: 15 @52793 has 192 MA's), (37, 52970), (40, 52994),

Gene: Darko_31 Start: 10771, Stop: 11121, Start Num: 15

Candidate Starts for Darko_31:

(Start: 15 @10771 has 192 MA's), (19, 10819), (23, 10867), (30, 10912), (31, 10918), (38, 10954), (42, 10978), (46, 11089),

Gene: Delilah_32 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for Delilah_32:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: Demodog_30 Start: 11144, Stop: 11494, Start Num: 15

Candidate Starts for Demodog_30:

(Start: 15 @11144 has 192 MA's), (19, 11192), (23, 11240), (30, 11285), (31, 11291), (38, 11327), (42, 11351), (46, 11462),

Gene: Derek_33 Start: 10330, Stop: 10680, Start Num: 15

Candidate Starts for Derek_33:

(Start: 15 @10330 has 192 MA's), (19, 10378), (23, 10426), (30, 10471), (31, 10477), (38, 10513), (42, 10537), (46, 10648),

Gene: Dessert_30 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for Dessert_30:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: Dewdrop_50 Start: 22009, Stop: 22341, Start Num: 14

Candidate Starts for Dewdrop_50:

(Start: 14 @22009 has 2 MA's), (18, 22054), (19, 22063), (20, 22093), (26, 22114), (27, 22123), (37, 22168), (46, 22306),

Gene: Dietrick_27 Start: 9565, Stop: 9915, Start Num: 15

Candidate Starts for Dietrick_27:

(Start: 15 @9565 has 192 MA's), (19, 9613), (23, 9661), (30, 9706), (31, 9712), (42, 9772), (46, 9883),

Gene: DirtMonster_31 Start: 11456, Stop: 11806, Start Num: 15

Candidate Starts for DirtMonster_31:

(Start: 15 @11456 has 192 MA's), (19, 11504), (23, 11552), (30, 11597), (31, 11603), (42, 11663), (46, 11774),

Gene: Domi_27 Start: 10190, Stop: 10540, Start Num: 15

Candidate Starts for Domi_27:

(Start: 15 @10190 has 192 MA's), (19, 10238), (23, 10286), (30, 10331), (31, 10337), (42, 10397), (46, 10508),

Gene: DrPhinkDaddy_32 Start: 10915, Stop: 11265, Start Num: 15

Candidate Starts for DrPhinkDaddy_32:

(Start: 15 @10915 has 192 MA's), (19, 10963), (23, 11011), (30, 11056), (31, 11062), (38, 11098), (42, 11122), (46, 11233),

Gene: Drazdys_32 Start: 10703, Stop: 11053, Start Num: 15

Candidate Starts for Drazdys_32:

(Start: 15 @10703 has 192 MA's), (19, 10751), (23, 10799), (30, 10844), (31, 10850), (38, 10886), (42, 10910), (46, 11021),

Gene: Duckfeet_29 Start: 10109, Stop: 10459, Start Num: 15

Candidate Starts for Duckfeet_29:

(Start: 15 @10109 has 192 MA's), (19, 10157), (23, 10205), (30, 10250), (31, 10256), (38, 10292), (42, 10316), (46, 10427),

Gene: ET08_27 Start: 10374, Stop: 10724, Start Num: 15

Candidate Starts for ET08_27:

(Start: 15 @10374 has 192 MA's), (19, 10422), (23, 10470), (30, 10515), (31, 10521), (38, 10557), (42, 10581), (46, 10692),

Gene: EasyJones_31 Start: 9542, Stop: 9892, Start Num: 15

Candidate Starts for EasyJones_31:

(Start: 15 @9542 has 192 MA's), (19, 9590), (23, 9638), (30, 9683), (31, 9689), (38, 9725), (42, 9749), (46, 9860),

Gene: EggyFarm_36 Start: 11898, Stop: 12248, Start Num: 15

Candidate Starts for EggyFarm_36:

(Start: 15 @11898 has 192 MA's), (19, 11946), (23, 11994), (30, 12039), (31, 12045), (38, 12081), (42, 12105), (46, 12216),

Gene: Egi03_79 Start: 52659, Stop: 53000, Start Num: 15

Candidate Starts for Egi03_79:

(Start: 15 @52659 has 192 MA's), (36, 52803), (37, 52806),

Gene: Elver_133 Start: 70843, Stop: 71208, Start Num: 17

Candidate Starts for Elver_133:

(12, 70765), (Start: 17 @70843 has 3 MA's), (25, 70954), (35, 71029), (40, 71080),

Gene: EmToTheThree_35 Start: 12332, Stop: 12682, Start Num: 15

Candidate Starts for EmToTheThree_35:

(Start: 15 @12332 has 192 MA's), (19, 12380), (23, 12428), (30, 12473), (31, 12479), (38, 12515), (42, 12539), (46, 12650),

Gene: EmmaElysia_30 Start: 9557, Stop: 9907, Start Num: 15

Candidate Starts for EmmaElysia_30:

(Start: 15 @9557 has 192 MA's), (19, 9605), (23, 9653), (30, 9698), (31, 9704), (38, 9740), (42, 9764), (46, 9875),

Gene: Erdmann_33 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for Erdmann_33:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: ErnieJ_33 Start: 10738, Stop: 11088, Start Num: 15

Candidate Starts for ErnieJ_33:

(Start: 15 @10738 has 192 MA's), (19, 10786), (23, 10834), (30, 10879), (31, 10885), (38, 10921), (42, 10945), (46, 11056),

Gene: Essence_31 Start: 10092, Stop: 10442, Start Num: 15

Candidate Starts for Essence_31:

(Start: 15 @10092 has 192 MA's), (19, 10140), (23, 10188), (30, 10233), (31, 10239), (38, 10275), (42, 10299), (46, 10410),

Gene: Evamon_80 Start: 53024, Stop: 53377, Start Num: 15

Candidate Starts for Evamon_80:

(Start: 15 @53024 has 192 MA's), (41, 53219),

Gene: Ewok_32 Start: 10921, Stop: 11271, Start Num: 15

Candidate Starts for Ewok_32:

(Start: 15 @10921 has 192 MA's), (19, 10969), (23, 11017), (30, 11062), (31, 11068), (38, 11104), (42, 11128), (46, 11239),

Gene: Fixie_29 Start: 9540, Stop: 9890, Start Num: 15

Candidate Starts for Fixie_29:

(Start: 15 @9540 has 192 MA's), (19, 9588), (23, 9636), (30, 9681), (31, 9687), (38, 9723), (42, 9747), (46, 9858),

Gene: Fludd_31 Start: 9793, Stop: 10143, Start Num: 15

Candidate Starts for Fludd_31:

(Start: 15 @9793 has 192 MA's), (19, 9841), (23, 9889), (30, 9934), (31, 9940), (38, 9976), (42, 10000), (46, 10111),

Gene: Fongie_32 Start: 11453, Stop: 11803, Start Num: 15

Candidate Starts for Fongie_32:

(Start: 15 @11453 has 192 MA's), (19, 11501), (23, 11549), (30, 11594), (31, 11600), (38, 11636), (42, 11660), (46, 11771),

Gene: FoxtrotP1_32 Start: 11246, Stop: 11596, Start Num: 15

Candidate Starts for FoxtrotP1_32:

(Start: 15 @11246 has 192 MA's), (19, 11294), (23, 11342), (30, 11387), (31, 11393), (38, 11429), (42, 11453), (46, 11564),

Gene: FrayBell_38 Start: 12486, Stop: 12836, Start Num: 15

Candidate Starts for FrayBell_38:

(Start: 15 @12486 has 192 MA's), (19, 12534), (23, 12582), (30, 12627), (31, 12633), (42, 12693), (46, 12804),

Gene: FudgeTart_33 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for FudgeTart_33:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: Fugax_84 Start: 53505, Stop: 53975, Start Num: 15

Candidate Starts for Fugax_84:

(3, 53271), (4, 53298), (6, 53301), (Start: 15 @53505 has 192 MA's), (19, 53553), (24, 53637), (37, 53781),

Gene: GMA4_42 Start: 31658, Stop: 32065, Start Num: 13

Candidate Starts for GMA4_42:

(10, 31565), (13, 31658), (19, 31715), (28, 31823), (34, 31853), (37, 31877), (40, 31901), (43, 31934), (46, 32033),

Gene: Gabriel_32 Start: 9792, Stop: 10142, Start Num: 15

Candidate Starts for Gabriel_32:

(Start: 15 @9792 has 192 MA's), (19, 9840), (23, 9888), (30, 9933), (31, 9939), (38, 9975), (42, 9999), (46, 10110),

Gene: Gamgam_32 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for Gamgam_32:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: Gandionco_129 Start: 69661, Stop: 70026, Start Num: 17

Candidate Starts for Gandionco_129:

(12, 69583), (Start: 17 @69661 has 3 MA's), (25, 69772), (35, 69847), (40, 69898),

Gene: Gezellig_77 Start: 52852, Stop: 53223, Start Num: 15

Candidate Starts for Gezellig_77:

(7, 52669), (Start: 15 @52852 has 192 MA's), (37, 53029), (40, 53053),

Gene: Ghost_32 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for Ghost_32:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: Gizmo_34 Start: 10920, Stop: 11270, Start Num: 15

Candidate Starts for Gizmo_34:

(Start: 15 @10920 has 192 MA's), (19, 10968), (23, 11016), (30, 11061), (31, 11067), (38, 11103), (42, 11127), (46, 11238),

Gene: GlutenPhree_33 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for GlutenPhree_33:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: Grasshills_36 Start: 11898, Stop: 12248, Start Num: 15

Candidate Starts for Grasshills_36:

(Start: 15 @11898 has 192 MA's), (19, 11946), (23, 11994), (30, 12039), (31, 12045), (38, 12081), (42, 12105), (46, 12216),

Gene: Grungle_25 Start: 8489, Stop: 8839, Start Num: 15

Candidate Starts for Grungle_25:

(Start: 15 @8489 has 192 MA's), (19, 8537), (23, 8585), (30, 8630), (31, 8636), (38, 8672), (42, 8696), (46, 8807),

Gene: Guwapp_32 Start: 10330, Stop: 10680, Start Num: 15

Candidate Starts for Guwapp_32:

(Start: 15 @10330 has 192 MA's), (19, 10378), (23, 10426), (30, 10471), (31, 10477), (38, 10513), (42, 10537), (46, 10648),

Gene: Halldule_28 Start: 9159, Stop: 9509, Start Num: 15

Candidate Starts for Halldule_28:

(Start: 15 @9159 has 192 MA's), (19, 9207), (23, 9255), (30, 9300), (31, 9306), (38, 9342), (42, 9366), (46, 9477),

Gene: Halo3_78 Start: 53437, Stop: 53808, Start Num: 15

Candidate Starts for Halo3_78:

(7, 53254), (Start: 15 @53437 has 192 MA's), (37, 53614), (40, 53638),

Gene: HyRo_31 Start: 11105, Stop: 11455, Start Num: 15

Candidate Starts for HyRo_31:

(Start: 15 @11105 has 192 MA's), (19, 11153), (23, 11201), (30, 11246), (31, 11252), (38, 11288), (42, 11312), (46, 11423),

Gene: I3_34 Start: 11467, Stop: 11817, Start Num: 15

Candidate Starts for I3_34:

(Start: 15 @11467 has 192 MA's), (19, 11515), (23, 11563), (30, 11608), (31, 11614), (42, 11674), (46, 11785),

Gene: IkeLoa_28 Start: 10216, Stop: 10566, Start Num: 15

Candidate Starts for IkeLoa_28:

(Start: 15 @10216 has 192 MA's), (19, 10264), (23, 10312), (30, 10357), (31, 10363), (38, 10399), (42, 10423), (46, 10534),

Gene: InigoMontoya_33 Start: 10334, Stop: 10684, Start Num: 15

Candidate Starts for InigoMontoya_33:

(Start: 15 @10334 has 192 MA's), (19, 10382), (23, 10430), (30, 10475), (31, 10481), (38, 10517), (42, 10541), (46, 10652),

Gene: InterFolia_39 Start: 13024, Stop: 13374, Start Num: 15

Candidate Starts for InterFolia_39:

(Start: 15 @13024 has 192 MA's), (19, 13072), (23, 13120), (30, 13165), (31, 13171), (38, 13207), (42, 13231), (46, 13342),

Gene: Iota_29 Start: 10453, Stop: 10803, Start Num: 15

Candidate Starts for Iota_29:

(Start: 15 @10453 has 192 MA's), (19, 10501), (23, 10549), (30, 10594), (31, 10600), (38, 10636), (42, 10660), (46, 10771),

Gene: Issimir_32 Start: 10913, Stop: 11263, Start Num: 15

Candidate Starts for Issimir_32:

(Start: 15 @10913 has 192 MA's), (19, 10961), (23, 11009), (30, 11054), (31, 11060), (38, 11096), (42, 11120), (46, 11231),

Gene: Izajani_33 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for Izajani_33:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: JPickles_30 Start: 9567, Stop: 9917, Start Num: 15

Candidate Starts for JPickles_30:

(Start: 15 @9567 has 192 MA's), (19, 9615), (23, 9663), (30, 9708), (31, 9714), (38, 9750), (42, 9774), (46, 9885),

Gene: Janiyra_32 Start: 10352, Stop: 10702, Start Num: 15

Candidate Starts for Janiyra_32:

(Start: 15 @10352 has 192 MA's), (19, 10400), (23, 10448), (30, 10493), (31, 10499), (38, 10535), (42, 10559), (46, 10670),

Gene: JayJay_35 Start: 10883, Stop: 11233, Start Num: 15

Candidate Starts for JayJay_35:

(Start: 15 @10883 has 192 MA's), (19, 10931), (23, 10979), (30, 11024), (31, 11030), (38, 11066), (42, 11090), (46, 11201),

Gene: Jaygup_32 Start: 10369, Stop: 10719, Start Num: 15

Candidate Starts for Jaygup_32:

(Start: 15 @10369 has 192 MA's), (19, 10417), (23, 10465), (30, 10510), (31, 10516), (38, 10552), (42, 10576), (46, 10687),

Gene: JeNeSaisPas_127 Start: 70257, Stop: 70622, Start Num: 17

Candidate Starts for JeNeSaisPas_127:

(12, 70179), (Start: 17 @70257 has 3 MA's), (25, 70368), (35, 70443), (40, 70494),

Gene: Jedediah_32 Start: 9838, Stop: 10188, Start Num: 15

Candidate Starts for Jedediah_32:

(Start: 15 @9838 has 192 MA's), (19, 9886), (23, 9934), (30, 9979), (31, 9985), (38, 10021), (42, 10045), (46, 10156),

Gene: Jemmno_32 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for Jemmno_32:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: Jessibeth14_31 Start: 10638, Stop: 10988, Start Num: 15

Candidate Starts for Jessibeth14_31:

(Start: 15 @10638 has 192 MA's), (19, 10686), (23, 10734), (30, 10779), (31, 10785), (38, 10821), (42, 10845), (46, 10956),

Gene: Jezreel_31 Start: 10387, Stop: 10737, Start Num: 15

Candidate Starts for Jezreel_31:

(Start: 15 @10387 has 192 MA's), (19, 10435), (23, 10483), (30, 10528), (31, 10534), (38, 10570), (42, 10594), (46, 10705),

Gene: JigglyPuff_32 Start: 11194, Stop: 11544, Start Num: 15

Candidate Starts for JigglyPuff_32:

(Start: 15 @11194 has 192 MA's), (19, 11242), (23, 11290), (30, 11335), (31, 11341), (38, 11377), (42, 11401), (46, 11512),

Gene: JulietS_27 Start: 8792, Stop: 9142, Start Num: 15

Candidate Starts for JulietS_27:

(Start: 15 @8792 has 192 MA's), (19, 8840), (23, 8888), (30, 8933), (31, 8939), (38, 8975), (42, 8999), (46, 9110),

Gene: JustHall_31 Start: 10818, Stop: 11168, Start Num: 15

Candidate Starts for JustHall_31:

(Start: 15 @10818 has 192 MA's), (19, 10866), (23, 10914), (30, 10959), (31, 10965), (38, 11001), (42, 11025), (46, 11136),

Gene: Kamryn_32 Start: 10691, Stop: 11041, Start Num: 15

Candidate Starts for Kamryn_32:

(Start: 15 @10691 has 192 MA's), (19, 10739), (23, 10787), (30, 10832), (31, 10838), (38, 10874), (42, 10898), (46, 11009),

Gene: Kboogie_32 Start: 9848, Stop: 10198, Start Num: 15

Candidate Starts for Kboogie_32:

(Start: 15 @9848 has 192 MA's), (19, 9896), (23, 9944), (30, 9989), (31, 9995), (38, 10031), (42, 10055), (46, 10166),

Gene: Khaleesi_31 Start: 10665, Stop: 11015, Start Num: 15

Candidate Starts for Khaleesi_31:

(Start: 15 @10665 has 192 MA's), (19, 10713), (23, 10761), (30, 10806), (31, 10812), (38, 10848), (42, 10872), (46, 10983),

Gene: KimmyK_80 Start: 53299, Stop: 53670, Start Num: 15

Candidate Starts for KimmyK_80:

(7, 53116), (Start: 15 @53299 has 192 MA's), (37, 53476), (40, 53500),

Gene: Koguma_28 Start: 9135, Stop: 9485, Start Num: 15

Candidate Starts for Koguma_28:

(Start: 15 @9135 has 192 MA's), (19, 9183), (23, 9231), (30, 9276), (31, 9282), (38, 9318), (42, 9342), (46, 9453),

Gene: Kureo_130 Start: 69857, Stop: 70222, Start Num: 17

Candidate Starts for Kureo_130:

(12, 69779), (Start: 17 @69857 has 3 MA's), (25, 69968), (35, 70043), (40, 70094),

Gene: LRRHood_29 Start: 11058, Stop: 11408, Start Num: 15

Candidate Starts for LRRHood_29:

(Start: 15 @11058 has 192 MA's), (19, 11106), (23, 11154), (30, 11199), (31, 11205), (38, 11241), (42, 11265), (46, 11376),

Gene: Labradorite_31 Start: 10369, Stop: 10719, Start Num: 15

Candidate Starts for Labradorite_31:

(Start: 15 @10369 has 192 MA's), (19, 10417), (23, 10465), (30, 10510), (31, 10516), (38, 10552), (42, 10576), (46, 10687),

Gene: Latch_32 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for Latch_32:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: Leaf_50 Start: 22009, Stop: 22341, Start Num: 14

Candidate Starts for Leaf_50:

(Start: 14 @22009 has 2 MA's), (18, 22054), (19, 22063), (20, 22093), (26, 22114), (27, 22123), (37, 22168), (46, 22306),

Gene: Lee7_31 Start: 10915, Stop: 11265, Start Num: 15

Candidate Starts for Lee7_31:

(Start: 15 @10915 has 192 MA's), (19, 10963), (23, 11011), (30, 11056), (31, 11062), (38, 11098), (42, 11122), (46, 11233),

Gene: Lethe_31 Start: 10609, Stop: 10959, Start Num: 15

Candidate Starts for Lethe_31:

(Start: 15 @10609 has 192 MA's), (19, 10657), (23, 10705), (30, 10750), (31, 10756), (38, 10792), (42, 10816), (46, 10927),

Gene: LifeSavor_33 Start: 10369, Stop: 10719, Start Num: 15

Candidate Starts for LifeSavor_33:

(Start: 15 @10369 has 192 MA's), (19, 10417), (23, 10465), (30, 10510), (31, 10516), (38, 10552), (42, 10576), (46, 10687),

Gene: Littleton_32 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for Littleton_32:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: Loanshark_32 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for Loanshark_32:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: LolaVinca_35 Start: 12130, Stop: 12480, Start Num: 15

Candidate Starts for LolaVinca_35:

(Start: 15 @12130 has 192 MA's), (19, 12178), (23, 12226), (30, 12271), (31, 12277), (38, 12313), (42, 12337), (46, 12448),

Gene: LookingGlass_35 Start: 11689, Stop: 12039, Start Num: 15

Candidate Starts for LookingGlass_35:

(Start: 15 @11689 has 192 MA's), (19, 11737), (23, 11785), (30, 11830), (31, 11836), (38, 11872), (42, 11896), (46, 12007),

Gene: LordLeafolot_38 Start: 12485, Stop: 12835, Start Num: 15

Candidate Starts for LordLeafolot_38:

(Start: 15 @12485 has 192 MA's), (19, 12533), (23, 12581), (30, 12626), (31, 12632), (42, 12692), (46, 12803),

Gene: Lukilu_25 Start: 9509, Stop: 9859, Start Num: 15

Candidate Starts for Lukilu_25:

(Start: 15 @9509 has 192 MA's), (19, 9557), (23, 9605), (30, 9650), (31, 9656), (38, 9692), (42, 9716), (46, 9827),

Gene: Lunareta_31 Start: 10649, Stop: 10999, Start Num: 15

Candidate Starts for Lunareta_31:

(Start: 15 @10649 has 192 MA's), (19, 10697), (23, 10745), (30, 10790), (31, 10796), (38, 10832), (42, 10856), (46, 10967),

Gene: Maby2021_33 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for Maby2021_33:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: Mangeria_35 Start: 11441, Stop: 11791, Start Num: 15

Candidate Starts for Mangeria_35:

(Start: 15 @11441 has 192 MA's), (19, 11489), (23, 11537), (30, 11582), (31, 11588), (38, 11624), (42, 11648), (46, 11759),

Gene: Marianna39_130 Start: 70266, Stop: 70631, Start Num: 17

Candidate Starts for Marianna39_130:

(12, 70188), (Start: 17 @70266 has 3 MA's), (25, 70377), (35, 70452), (40, 70503),

Gene: Matsumoto_31 Start: 10334, Stop: 10684, Start Num: 15

Candidate Starts for Matsumoto_31:

(Start: 15 @10334 has 192 MA's), (19, 10382), (23, 10430), (30, 10475), (31, 10481), (38, 10517), (42, 10541), (46, 10652),

Gene: McGee_31 Start: 9557, Stop: 9907, Start Num: 15

Candidate Starts for McGee_31:

(Start: 15 @9557 has 192 MA's), (19, 9605), (23, 9653), (30, 9698), (31, 9704), (38, 9740), (42, 9764), (46, 9875),

Gene: McWolfish_31 Start: 10665, Stop: 11015, Start Num: 15

Candidate Starts for McWolfish_31:

(Start: 15 @10665 has 192 MA's), (19, 10713), (23, 10761), (30, 10806), (31, 10812), (38, 10848), (42, 10872), (46, 10983),

Gene: Megamind_32 Start: 10903, Stop: 11253, Start Num: 15

Candidate Starts for Megamind_32:

(Start: 15 @10903 has 192 MA's), (19, 10951), (23, 10999), (30, 11044), (31, 11050), (38, 11086), (42, 11110), (46, 11221),

Gene: Melpomini_31 Start: 9775, Stop: 10125, Start Num: 15

Candidate Starts for Melpomini_31:

(Start: 15 @9775 has 192 MA's), (19, 9823), (23, 9871), (30, 9916), (31, 9922), (38, 9958), (42, 9982), (46, 10093),

Gene: MikeLiesIn_32 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for MikeLiesIn_32:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: Mikro_30 Start: 11404, Stop: 11754, Start Num: 15

Candidate Starts for Mikro_30:

(Start: 15 @11404 has 192 MA's), (19, 11452), (23, 11500), (30, 11545), (31, 11551), (38, 11587), (42, 11611), (46, 11722),

Gene: MoMoMixon_33 Start: 11232, Stop: 11582, Start Num: 15

Candidate Starts for MoMoMixon_33:

(Start: 15 @11232 has 192 MA's), (19, 11280), (23, 11328), (30, 11373), (31, 11379), (38, 11415), (42, 11439), (46, 11550),

Gene: Momo_31 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for Momo_31:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: Montpel_31 Start: 10649, Stop: 10999, Start Num: 15

Candidate Starts for Montpel_31:

(Start: 15 @10649 has 192 MA's), (19, 10697), (23, 10745), (30, 10790), (31, 10796), (38, 10832), (42, 10856), (46, 10967),

Gene: Morizzled23_31 Start: 9769, Stop: 10119, Start Num: 15

Candidate Starts for Morizzled23_31:

(Start: 15 @9769 has 192 MA's), (19, 9817), (23, 9865), (30, 9910), (31, 9916), (38, 9952), (42, 9976), (46, 10087),

Gene: Mutzi_78 Start: 53560, Stop: 53943, Start Num: 15

Candidate Starts for Mutzi_78:

(Start: 15 @53560 has 192 MA's), (22, 53656), (39, 53764), (45, 53842),

Gene: Naija_32 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for Naija_32:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: Napoleon13_31 Start: 9788, Stop: 10138, Start Num: 15

Candidate Starts for Napoleon13_31:

(Start: 15 @9788 has 192 MA's), (19, 9836), (23, 9884), (30, 9929), (31, 9935), (38, 9971), (42, 9995), (46, 10106),

Gene: Nappy_33 Start: 11083, Stop: 11433, Start Num: 15

Candidate Starts for Nappy_33:

(Start: 15 @11083 has 192 MA's), (19, 11131), (23, 11179), (30, 11224), (31, 11230), (38, 11266), (42, 11290), (46, 11401),

Gene: Naval22_34 Start: 10958, Stop: 11308, Start Num: 15

Candidate Starts for Naval22_34:

(Start: 15 @10958 has 192 MA's), (19, 11006), (23, 11054), (30, 11099), (31, 11105), (38, 11141), (42, 11165), (46, 11276),

Gene: NedWong_33 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for NedWong_33:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: Ngannou_30 Start: 9549, Stop: 9899, Start Num: 15

Candidate Starts for Ngannou_30:

(Start: 15 @9549 has 192 MA's), (19, 9597), (23, 9645), (30, 9690), (31, 9696), (38, 9732), (42, 9756), (46, 9867),

Gene: Nidhogg_33 Start: 10982, Stop: 11332, Start Num: 15

Candidate Starts for Nidhogg_33:

(Start: 15 @10982 has 192 MA's), (19, 11030), (23, 11078), (30, 11123), (31, 11129), (38, 11165), (42, 11189), (46, 11300),

Gene: NoodleTree_31 Start: 10680, Stop: 11030, Start Num: 15

Candidate Starts for NoodleTree_31:

(Start: 15 @10680 has 192 MA's), (19, 10728), (23, 10776), (30, 10821), (31, 10827), (38, 10863), (42, 10887), (46, 10998),

Gene: Norm_32 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for Norm_32:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: NuevoMundo_35 Start: 11972, Stop: 12322, Start Num: 15

Candidate Starts for NuevoMundo_35:

(Start: 15 @11972 has 192 MA's), (19, 12020), (23, 12068), (30, 12113), (31, 12119), (38, 12155), (42, 12179), (46, 12290),

Gene: OrediggerDelux_31 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for OrediggerDelux_31:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: Paella_133 Start: 71406, Stop: 71771, Start Num: 17

Candidate Starts for Paella_133:

(12, 71328), (Start: 17 @71406 has 3 MA's), (25, 71517), (35, 71592), (40, 71643),

Gene: ParkTD_31 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for ParkTD_31:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: Parmesanjohn_55 Start: 36197, Stop: 36685, Start Num: 9

Candidate Starts for Parmesanjohn_55:

(Start: 9 @36197 has 5 MA's), (11, 36233), (13, 36287), (28, 36440), (29, 36443), (34, 36470), (44, 36581), (45, 36587), (47, 36674),

Gene: Patter_32 Start: 10390, Stop: 10740, Start Num: 15

Candidate Starts for Patter_32:

(Start: 15 @10390 has 192 MA's), (19, 10438), (23, 10486), (30, 10531), (31, 10537), (38, 10573), (42, 10597), (46, 10708),

Gene: PharkleMinkus_37 Start: 12486, Stop: 12836, Start Num: 15

Candidate Starts for PharkleMinkus_37:

(Start: 15 @12486 has 192 MA's), (19, 12534), (23, 12582), (30, 12627), (31, 12633), (42, 12693), (46, 12804),

Gene: Phlegm_34 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for Phlegm_34:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: Phlop_78 Start: 52902, Stop: 53273, Start Num: 15

Candidate Starts for Phlop_78:

(7, 52719), (Start: 15 @52902 has 192 MA's), (37, 53079), (40, 53103),

Gene: Phloss_53 Start: 35604, Stop: 36092, Start Num: 9

Candidate Starts for Phloss_53:

(Start: 9 @35604 has 5 MA's), (11, 35640), (13, 35694), (28, 35847), (29, 35850), (34, 35877), (44, 35988), (45, 35994), (47, 36081),

Gene: Phox_31 Start: 11082, Stop: 11432, Start Num: 15

Candidate Starts for Phox_31:

(Start: 15 @11082 has 192 MA's), (19, 11130), (23, 11178), (30, 11223), (31, 11229), (38, 11265), (42, 11289), (46, 11400),

Gene: Phusco_32 Start: 10369, Stop: 10719, Start Num: 15

Candidate Starts for Phusco_32:

(Start: 15 @10369 has 192 MA's), (19, 10417), (23, 10465), (30, 10510), (31, 10516), (38, 10552), (42, 10576), (46, 10687),

Gene: Pier_34 Start: 11076, Stop: 11426, Start Num: 15

Candidate Starts for Pier_34:

(Start: 15 @11076 has 192 MA's), (19, 11124), (23, 11172), (30, 11217), (31, 11223), (38, 11259), (42, 11283), (46, 11394),

Gene: Pio_35 Start: 11767, Stop: 12117, Start Num: 15

Candidate Starts for Pio_35:

(Start: 15 @11767 has 192 MA's), (19, 11815), (23, 11863), (30, 11908), (31, 11914), (38, 11950), (42, 11974), (46, 12085),

Gene: Pivoine_32 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for Pivoine_32:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: Pleione_34 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for Pleione_34:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: Portcullis_81 Start: 52908, Stop: 53279, Start Num: 15

Candidate Starts for Portcullis_81:

(7, 52725), (Start: 15 @52908 has 192 MA's), (37, 53085), (40, 53109),

Gene: Primadonna_27 Start: 10022, Stop: 10372, Start Num: 15

Candidate Starts for Primadonna_27:

(Start: 15 @10022 has 192 MA's), (19, 10070), (23, 10118), (30, 10163), (31, 10169), (42, 10229), (46, 10340),

Gene: PullumCavea_79 Start: 53079, Stop: 53450, Start Num: 15

Candidate Starts for PullumCavea_79:

(7, 52896), (Start: 15 @53079 has 192 MA's), (37, 53256), (40, 53280),

Gene: PurduePete_31 Start: 10629, Stop: 10979, Start Num: 15

Candidate Starts for PurduePete_31:

(Start: 15 @10629 has 192 MA's), (19, 10677), (23, 10725), (30, 10770), (31, 10776), (38, 10812), (42, 10836), (46, 10947),

Gene: QBert_30 Start: 11082, Stop: 11432, Start Num: 15

Candidate Starts for QBert_30:

(Start: 15 @11082 has 192 MA's), (19, 11130), (23, 11178), (30, 11223), (31, 11229), (38, 11265), (42, 11289), (46, 11400),

Gene: Quasimodo_32 Start: 11333, Stop: 11683, Start Num: 15

Candidate Starts for Quasimodo_32:

(Start: 15 @11333 has 192 MA's), (19, 11381), (23, 11429), (30, 11474), (31, 11480), (38, 11516), (42, 11540), (46, 11651),

Gene: Qui_133 Start: 71406, Stop: 71771, Start Num: 17

Candidate Starts for Qui_133:

(12, 71328), (Start: 17 @71406 has 3 MA's), (25, 71517), (35, 71592), (40, 71643),

Gene: Rahel_32 Start: 10369, Stop: 10719, Start Num: 15

Candidate Starts for Rahel_32:

(Start: 15 @10369 has 192 MA's), (19, 10417), (23, 10465), (30, 10510), (31, 10516), (38, 10552), (42, 10576), (46, 10687),

Gene: Rizal_30 Start: 9835, Stop: 10185, Start Num: 15

Candidate Starts for Rizal_30:

(Start: 15 @9835 has 192 MA's), (19, 9883), (23, 9931), (30, 9976), (31, 9982), (38, 10018), (42, 10042), (46, 10153),

Gene: RoMag_27 Start: 10167, Stop: 10517, Start Num: 15

Candidate Starts for RoMag_27:

(Start: 15 @10167 has 192 MA's), (19, 10215), (23, 10263), (30, 10308), (31, 10314), (38, 10350), (42, 10374), (46, 10485),

Gene: Rocha_30 Start: 9863, Stop: 10213, Start Num: 15

Candidate Starts for Rocha_30:

(Start: 15 @9863 has 192 MA's), (19, 9911), (23, 9959), (30, 10004), (31, 10010), (38, 10046), (42, 10070), (46, 10181),

Gene: RogerDodger_84 Start: 53667, Stop: 54038, Start Num: 15

Candidate Starts for RogerDodger_84:

(7, 53484), (Start: 15 @53667 has 192 MA's), (37, 53844), (40, 53868),

Gene: Ronan_27 Start: 8475, Stop: 8825, Start Num: 15

Candidate Starts for Ronan_27:

(Start: 15 @8475 has 192 MA's), (19, 8523), (23, 8571), (30, 8616), (31, 8622), (38, 8658), (42, 8682), (46, 8793),

Gene: Roots515_32 Start: 10917, Stop: 11267, Start Num: 15

Candidate Starts for Roots515_32:

(Start: 15 @10917 has 192 MA's), (19, 10965), (23, 11013), (30, 11058), (31, 11064), (38, 11100), (42, 11124), (46, 11235),

Gene: SVoro_31 Start: 10912, Stop: 11262, Start Num: 15

Candidate Starts for SVoro_31:

(Start: 15 @10912 has 192 MA's), (19, 10960), (23, 11008), (30, 11053), (31, 11059), (38, 11095), (42, 11119), (46, 11230),

Gene: Salacia_34 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for Salacia_34:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: Salvador_80 Start: 53022, Stop: 53375, Start Num: 15

Candidate Starts for Salvador_80:

(Start: 15 @53022 has 192 MA's), (41, 53217),

Gene: Sauce_33 Start: 11045, Stop: 11395, Start Num: 15

Candidate Starts for Sauce_33:

(Start: 15 @11045 has 192 MA's), (19, 11093), (23, 11141), (30, 11186), (31, 11192), (38, 11228), (42, 11252), (46, 11363),

Gene: Schnauzer_56 Start: 36197, Stop: 36685, Start Num: 9

Candidate Starts for Schnauzer_56:

(Start: 9 @36197 has 5 MA's), (11, 36233), (13, 36287), (28, 36440), (29, 36443), (34, 36470), (44, 36581), (45, 36587), (47, 36674),

Gene: ScottMcG_32 Start: 11225, Stop: 11575, Start Num: 15

Candidate Starts for ScottMcG_32:

(Start: 15 @11225 has 192 MA's), (19, 11273), (23, 11321), (30, 11366), (31, 11372), (38, 11408), (42, 11432), (46, 11543),

Gene: Sebata_32 Start: 11268, Stop: 11618, Start Num: 15

Candidate Starts for Sebata_32:

(Start: 15 @11268 has 192 MA's), (19, 11316), (23, 11364), (30, 11409), (31, 11415), (38, 11451), (42, 11475), (46, 11586),

Gene: Shaqnato_28 Start: 9480, Stop: 9830, Start Num: 15

Candidate Starts for Shaqnato_28:

(Start: 15 @9480 has 192 MA's), (19, 9528), (23, 9576), (30, 9621), (31, 9627), (38, 9663), (42, 9687), (46, 9798),

Gene: ShiaLabeouf_32 Start: 10369, Stop: 10719, Start Num: 15

Candidate Starts for ShiaLabeouf_32:

(Start: 15 @10369 has 192 MA's), (19, 10417), (23, 10465), (30, 10510), (31, 10516), (38, 10552), (42, 10576), (46, 10687),

Gene: Shifa_29 Start: 10551, Stop: 10901, Start Num: 15

Candidate Starts for Shifa_29:

(Start: 15 @10551 has 192 MA's), (19, 10599), (23, 10647), (30, 10692), (31, 10698), (38, 10734), (42, 10758), (46, 10869),

Gene: Shinji_80 Start: 53025, Stop: 53456, Start Num: 15

Candidate Starts for Shinji_80:

(Start: 15 @53025 has 192 MA's), (19, 53073), (27, 53208), (32, 53235), (33, 53238), (40, 53286),

Gene: Shnickers_32 Start: 10369, Stop: 10719, Start Num: 15

Candidate Starts for Shnickers_32:

(Start: 15 @10369 has 192 MA's), (19, 10417), (23, 10465), (30, 10510), (31, 10516), (38, 10552), (42, 10576), (46, 10687),

Gene: Shrimp_32 Start: 10922, Stop: 11272, Start Num: 15

Candidate Starts for Shrimp_32:

(Start: 15 @10922 has 192 MA's), (19, 10970), (23, 11018), (30, 11063), (31, 11069), (38, 11105), (42, 11129), (46, 11240),

Gene: SilverDipper_33 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for SilverDipper_33:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: SmallFry_32 Start: 10369, Stop: 10719, Start Num: 15

Candidate Starts for SmallFry_32:

(Start: 15 @10369 has 192 MA's), (19, 10417), (23, 10465), (30, 10510), (31, 10516), (38, 10552), (42, 10576), (46, 10687),

Gene: SmokingBunny_81 Start: 54018, Stop: 54371, Start Num: 15

Candidate Starts for SmokingBunny_81:

(Start: 15 @54018 has 192 MA's), (41, 54213),

Gene: Smurph_55 Start: 36197, Stop: 36685, Start Num: 9

Candidate Starts for Smurph_55:

(Start: 9 @36197 has 5 MA's), (11, 36233), (13, 36287), (28, 36440), (29, 36443), (34, 36470), (44, 36581), (45, 36587), (47, 36674),

Gene: Spec_30 Start: 10375, Stop: 10725, Start Num: 15

Candidate Starts for Spec_30:

(Start: 15 @10375 has 192 MA's), (19, 10423), (23, 10471), (30, 10516), (31, 10522), (38, 10558), (42, 10582), (46, 10693),

Gene: Specks_37 Start: 12207, Stop: 12557, Start Num: 15

Candidate Starts for Specks_37:

(Start: 15 @12207 has 192 MA's), (19, 12255), (23, 12303), (30, 12348), (31, 12354), (38, 12390), (42, 12414), (46, 12525),

Gene: Sprinklers_32 Start: 10407, Stop: 10757, Start Num: 15

Candidate Starts for Sprinklers_32:

(Start: 15 @10407 has 192 MA's), (19, 10455), (23, 10503), (30, 10548), (31, 10554), (38, 10590), (42, 10614), (46, 10725),

Gene: Spud_34 Start: 11764, Stop: 12114, Start Num: 15

Candidate Starts for Spud_34:

(Start: 15 @11764 has 192 MA's), (19, 11812), (23, 11860), (30, 11905), (31, 11911), (38, 11947), (42, 11971), (46, 12082),

Gene: SrishMeg2525_31 Start: 10629, Stop: 10979, Start Num: 15

Candidate Starts for SrishMeg2525_31:

(Start: 15 @10629 has 192 MA's), (19, 10677), (23, 10725), (30, 10770), (31, 10776), (38, 10812), (42, 10836), (46, 10947),

Gene: StephanieG_32 Start: 11098, Stop: 11448, Start Num: 15

Candidate Starts for StephanieG_32:

(Start: 15 @11098 has 192 MA's), (19, 11146), (23, 11194), (30, 11239), (31, 11245), (38, 11281), (42, 11305), (46, 11416),

Gene: StubbySaigey_31 Start: 9558, Stop: 9908, Start Num: 15

Candidate Starts for StubbySaigey_31:

(Start: 15 @9558 has 192 MA's), (19, 9606), (23, 9654), (30, 9699), (31, 9705), (38, 9741), (42, 9765), (46, 9876),

Gene: Substance289_29 Start: 9843, Stop: 10193, Start Num: 15

Candidate Starts for Substance289_29:

(Start: 15 @9843 has 192 MA's), (19, 9891), (23, 9939), (30, 9984), (31, 9990), (38, 10026), (42, 10050), (46, 10161),

Gene: Tainan_37 Start: 12485, Stop: 12835, Start Num: 15

Candidate Starts for Tainan_37:

(Start: 15 @12485 has 192 MA's), (19, 12533), (23, 12581), (30, 12626), (31, 12632), (42, 12692), (46, 12803),

Gene: Teardrop_31 Start: 9834, Stop: 10184, Start Num: 15

Candidate Starts for Teardrop_31:

(Start: 15 @9834 has 192 MA's), (19, 9882), (23, 9930), (30, 9975), (31, 9981), (38, 10017), (42, 10041), (46, 10152),

Gene: TinyTim_32 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for TinyTim_32:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: Togo_80 Start: 54018, Stop: 54371, Start Num: 15

Candidate Starts for Togo_80:

(Start: 15 @54018 has 192 MA's), (41, 54213),

Gene: Tonenili_36 Start: 12007, Stop: 12357, Start Num: 15

Candidate Starts for Tonenili_36:

(8, 11887), (Start: 15 @12007 has 192 MA's), (19, 12055), (23, 12103), (30, 12148), (31, 12154), (42, 12214), (46, 12325),

Gene: Tortoise16_31 Start: 10369, Stop: 10719, Start Num: 15

Candidate Starts for Tortoise16_31:

(Start: 15 @10369 has 192 MA's), (19, 10417), (23, 10465), (30, 10510), (31, 10516), (38, 10552), (42, 10576), (46, 10687),

Gene: Trinitium_31 Start: 9823, Stop: 10173, Start Num: 15

Candidate Starts for Trinitium_31:

(Start: 15 @9823 has 192 MA's), (19, 9871), (23, 9919), (30, 9964), (31, 9970), (38, 10006), (42, 10030), (46, 10141),

Gene: Turret_30 Start: 9546, Stop: 9896, Start Num: 15

Candidate Starts for Turret_30:

(Start: 15 @9546 has 192 MA's), (19, 9594), (23, 9642), (30, 9687), (31, 9693), (38, 9729), (42, 9753), (46, 9864),

Gene: Twister6_81 Start: 52367, Stop: 52720, Start Num: 15

Candidate Starts for Twister6_81:

(Start: 15 @52367 has 192 MA's), (41, 52562),

Gene: Tyke_34 Start: 11781, Stop: 12131, Start Num: 15

Candidate Starts for Tyke_34:

(Start: 15 @11781 has 192 MA's), (19, 11829), (23, 11877), (30, 11922), (31, 11928), (38, 11964), (42, 11988), (46, 12099),

Gene: Valary_81 Start: 53764, Stop: 54165, Start Num: 15

Candidate Starts for Valary_81:

(Start: 15 @53764 has 192 MA's), (19, 53812), (37, 53971), (40, 53995), (41, 54007),

Gene: ValleyTerrace_32 Start: 10373, Stop: 10723, Start Num: 15

Candidate Starts for ValleyTerrace_32:

(Start: 15 @10373 has 192 MA's), (19, 10421), (23, 10469), (30, 10514), (31, 10520), (38, 10556), (42, 10580), (46, 10691),

Gene: Vortrix_38 Start: 12468, Stop: 12818, Start Num: 15

Candidate Starts for Vortrix_38:

(8, 12348), (Start: 15 @12468 has 192 MA's), (19, 12516), (23, 12564), (30, 12609), (31, 12615), (42, 12675), (46, 12786),

Gene: Wally_31 Start: 9790, Stop: 10140, Start Num: 15

Candidate Starts for Wally_31:

(Start: 15 @9790 has 192 MA's), (19, 9838), (23, 9886), (30, 9931), (31, 9937), (38, 9973), (42, 9997), (46, 10108),

Gene: Willis_32 Start: 10813, Stop: 11163, Start Num: 15

Candidate Starts for Willis_32:

(Start: 15 @10813 has 192 MA's), (19, 10861), (23, 10909), (30, 10954), (31, 10960), (38, 10996), (42, 11020), (46, 11131),

Gene: Wizard_77 Start: 52852, Stop: 53223, Start Num: 15

Candidate Starts for Wizard_77:

(7, 52669), (Start: 15 @52852 has 192 MA's), (37, 53029), (40, 53053),

Gene: Yassified_29 Start: 9570, Stop: 9920, Start Num: 15

Candidate Starts for Yassified_29:

(Start: 15 @9570 has 192 MA's), (19, 9618), (23, 9666), (30, 9711), (31, 9717), (38, 9753), (42, 9777), (46, 9888),

Gene: YemiJoy2021_33 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for YemiJoy2021_33:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),

Gene: YoungMoneyMata_32 Start: 10124, Stop: 10474, Start Num: 15

Candidate Starts for YoungMoneyMata_32:

(Start: 15 @10124 has 192 MA's), (19, 10172), (23, 10220), (30, 10265), (31, 10271), (38, 10307), (42, 10331), (46, 10442),

Gene: Yucca_32 Start: 10840, Stop: 11190, Start Num: 15

Candidate Starts for Yucca_32:

(Start: 15 @10840 has 192 MA's), (19, 10888), (23, 10936), (30, 10981), (31, 10987), (38, 11023), (42, 11047), (46, 11158),

Gene: YungMoney_79 Start: 54400, Stop: 54783, Start Num: 15

Candidate Starts for YungMoney_79:

(Start: 15 @54400 has 192 MA's), (22, 54496), (39, 54604), (45, 54682),

Gene: Zalkecks_34 Start: 10922, Stop: 11272, Start Num: 15

Candidate Starts for Zalkecks_34:

(Start: 15 @10922 has 192 MA's), (19, 10970), (23, 11018), (30, 11063), (31, 11069), (38, 11105), (42, 11129), (46, 11240),

Gene: Zeenon_34 Start: 10904, Stop: 11254, Start Num: 15

Candidate Starts for Zeenon_34:

(Start: 15 @10904 has 192 MA's), (19, 10952), (23, 11000), (30, 11045), (31, 11051), (38, 11087), (42, 11111), (46, 11222),

Gene: ZygoTaiga_32 Start: 10918, Stop: 11268, Start Num: 15

Candidate Starts for ZygoTaiga_32:

(Start: 15 @10918 has 192 MA's), (19, 10966), (23, 11014), (30, 11059), (31, 11065), (38, 11101), (42, 11125), (46, 11236),