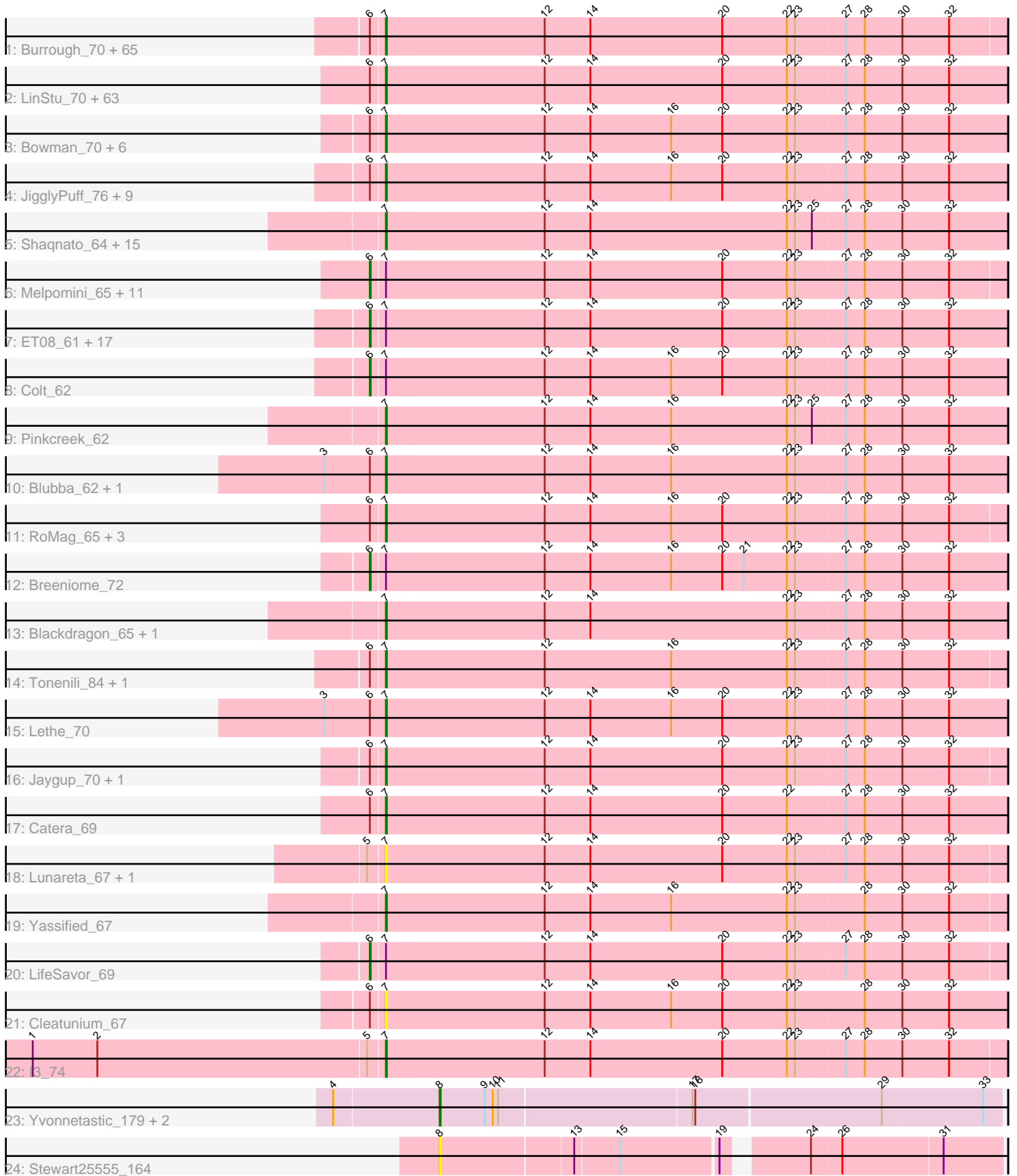


Pham 308062



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 308062 Report

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

Pham number 308062 has 220 members, 37 are drafts.

Phages represented in each track:

- Track 1 : Burrough_70, Blackbrain_65, ParkTD_72, Latch_70, Derek_70, Dessert_67, Guwapp_69, Cactojaque_65, Capablanca_72, Gamgam_70, Jedediah_73, Gabriel_72, Spec_67, Fludd_70, DirtMonster_65, Chomp_69, Duckfeet_63, Belieber_64, Audrick_72, SilverDipper_71, Ghost_69, GlutenPhree_71, EmmaElysia_69, Jemmno_70, Sprinklers_67, Chargie21_66, Drazdys_70, Ablatia_68, Phlegm_72, Ading_70, BackyardAgain_67, Labradorite_70, Essence_69, Fixie_65, ShiaLabeouf_70, Rahel_71, Momo_69, ArcherS7_70, Kboogie_73, Turret_65, Bxz1_70, Iota_65, Ngannou_66, YemiJoy2021_71, Bangla1971_71, Asterius_73, Matsumoto_69, CharlieB_68, Sauce_72, FudgeTart_72, ChickenPhender_66, Patter_70, JustHall_66, InigoMontoya_71, Darko_70, Tyke_72, Salacia_74, Littleton_70, Naija_69, Bread_70, Substance289_66, Adlitam_70, Phusco_70, Fongie_69, CindyLou_71, Janiyra_72
- Track 2 : LinStu_70, BobaPhatt_65, LolaVinca_73, Bipolarisk_70, EasyJones_72, ErnieJ_68, Roots515_69, Erdmann_71, Nidhogg_71, Dandelion_77, Willis_72, Sebata_71, NuevoMundo_76, StephanieG_70, Delylah_74, JPickles_70, Flabslab_67, Naval22_79, Domi_64, Norm_71, Shelob_73, McWolfish_69, ZygoTaiga_70, MikeLiesIn_71, Rocha_68, Megamind_70, Caravan_67, Mikro_68, Yucca_70, DrPhinkDaddy_70, OrediggerDelux_68, MoMoMixon_71, Zeenon_72, JayJay_77, SoilZilla_66, Ewok_71, Maby2021_71, Mangeria_74, Pier_74, Jessibeth14_69, Specks_76, Pleione_73, Kamryn_70, Rizal_68, StubbySaigey_72, Izajani_71, EmToTheThree_74, Loanshark_71, Lee7_68, Dietrick_64, NedWong_72, Jezreel_70, PurduePete_70, Napoleon13_67, JulietS_64, TinyTim_71, FoxtrotP1_71, Spud_70, ScottMcG_68, Khaleesi_70, Delilah_71, Halldule_63, Ava3_72, SrishMeg2525_70
- Track 3 : Bowman_70, PharkleMinkus_76, NoodleTree_73, LordLeafolot_78, Pupusa_76, FrayBell_78, Tainan_76
- Track 4 : JigglyPuff_76, BigCity_77, Demodog_76, Grasshills_77, InterFolia_80, BananaFence_71, QBert_65, Bigswole_79, EggyFarm_77, Concombre_77
- Track 5 : Shaqnato_64, BadAgartude_69, Astraea_71, Maturis_67, HyRo_65, Shifa_62, Ronan_65, DeejaClivia_61, LRRHood_66, Alice_64, Grungle_60, Bezza_61, Lukilu_62, Rabinovish_69, Stubby_65, Phox_68
- Track 6 : Melpomini_65, Teardrop_70, ChaylaJr_66, Morizzled23_72, Gizmo_75, Issimir_70, Wally_69, SVoro_69, Bonray_71, Shrimp_71, Zalkecks_72, Daffodil_75
- Track 7 : ET08_61, Cali_67, Nappy_72, McGee_71, Quasimodo_70, Babyland_69, Pio_75, Tortoise16_68, DTDevon_71, Atlantean_69, Amataga_70, ValleyTerrace_70, Pivoine_69, YoungMoneyMata_70, Basquiat_66, BeanWater_64, SmallFry_70, Trinitium_66

- Track 8 : Colt_62
- Track 9 : Pinkcreek_62
- Track 10 : Blubba_62, Cane17_61
- Track 11 : RoMag_65, LookingGlass_72, Primadonna_66, IkeLoa_66
- Track 12 : Breeniome_72
- Track 13 : Blackdragon_65, Koguma_67
- Track 14 : Tonenili_84, Vortrix_84
- Track 15 : Lethe_70
- Track 16 : Jaygup_70, Shnickers_70
- Track 17 : Catera_69
- Track 18 : Lunareta_67, Montpel_67
- Track 19 : Yassified_67
- Track 20 : LifeSavor_69
- Track 21 : Cleatunium_67
- Track 22 : I3_74
- Track 23 : Yvonnetastic_179, JonJames_179, Cardigan_185
- Track 24 : Stewart25555_164

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

The start number called the most often in the published annotations is 7, it was called in 148 of the 183 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ablatia_68, Ading_70, Adlitam_70, Alice_64, ArcherS7_70, Asterius_73, Astraea_71, Audrick_72, Ava3_72, BackyardAgain_67, BadAgartude_69, BananaFence_71, Bangla1971_71, Belieber_64, Bezza_61, BigCity_77, Bigswole_79, Bipolarisk_70, Blackbrain_65, Blackdragon_65, Blubba_62, BobaPhatt_65, Bowman_70, Bread_70, Burrough_70, Bxz1_70, Cactojaque_65, Cane17_61, Capablanca_72, Caravan_67, Catera_69, Chargie21_66, CharlieB_68, ChickenPhender_66, Chomp_69, CindyLou_71, Cleatunium_67, Concombre_77, Dandelion_77, Darko_70, DeejaClivia_61, Delilah_71, Delylah_74, Demodog_76, Derek_70, Dessert_67, Dietrick_64, DirtMonster_65, Domi_64, DrPhinkDaddy_70, Drazdys_70, Duckfeet_63, EasyJones_72, EggyFarm_77, EmToTheThree_74, EmmaElysia_69, Erdmann_71, ErnieJ_68, Essence_69, Ewok_71, Fixie_65, Flabslab_67, Fludd_70, Fongie_69, FoxtrotP1_71, FrayBell_78, FudgeTart_72, Gabriel_72, Gamgam_70, Ghost_69, GlutenPhree_71, Grasshills_77, Grungle_60, Guwapp_69, Halldule_63, HyRo_65, I3_74, IkeLoa_66, InigoMontoya_71, InterFolia_80, Iota_65, Izajani_71, JPickles_70, Janiyra_72, JayJay_77, Jaygup_70, Jediah_73, Jemmno_70, Jessibeth14_69, Jezreel_70, JigglyPuff_76, JulietS_64, JustHall_66, Kamryn_70, Kboogie_73, Khaleesi_70, Koguma_67, LRRHood_66, Labradorite_70, Latch_70, Lee7_68, Lethe_70, LinStu_70, Littleton_70, Loanshark_71, LolaVinca_73, LookingGlass_72, LordLeafolot_78, Lukilu_62, Lunareta_67, Maby2021_71, Mangeria_74, Matsumoto_69, Maturis_67, McWolfish_69, Megamind_70, MikeLiesIn_71, Mikro_68, MoMoMixon_71, Momo_69, Montpel_67, Naija_69, Napoleon13_67, Naval22_79, NedWong_72, Ngannou_66, Nidhogg_71, NoodleTree_73, Norm_71, NuevoMundo_76, OrediggerDelux_68, ParkTD_72, Patter_70, PharkleMinkus_76, Phlegm_72, Phox_68, Phusco_70, Pier_74, Pinkcreek_62, Pleione_73, Primadonna_66, Pupusa_76, PurduePete_70, QBert_65, Rabinovish_69, Rahel_71, Rizal_68, RoMag_65, Rocha_68, Ronan_65,

Roots515_69, Salacia_74, Sauce_72, ScottMcG_68, Sebata_71, Shaqnato_64, Shelob_73, ShiaLabeouf_70, Shifa_62, Shnickers_70, SilverDipper_71, SoilZilla_66, Spec_67, Specks_76, Sprinklers_67, Spud_70, SrishMeg2525_70, StephanieG_70, StubbySaigey_72, Stubby_65, Substance289_66, Tainan_76, TinyTim_71, Tonenili_84, Turret_65, Tyke_72, Vortrix_84, Willis_72, Yassified_67, YemiJoy2021_71, Yucca_70, Zeenon_72, ZygoTaiga_70,

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

- Amataga_70, Atlantean_69, Babyland_69, Basquiat_66, BeanWater_64, Bonray_71, Breeniome_72, Cali_67, ChaylaJr_66, Colt_62, DTDevon_71, Daffodil_75, ET08_61, Gizmo_75, Issimir_70, LifeSavor_69, McGee_71, Melpomini_65, Morizzled23_72, Nappy_72, Pio_75, Pivoine_69, Quasimodo_70, SVoro_69, Shrimp_71, SmallFry_70, Teardrop_70, Tortoise16_68, Trinitium_66, ValleyTerrace_70, Wally_69, YoungMoneyMata_70, Zalkecks_72,

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

- Cardigan_185, JonJames_179, Stewart25555_164, Yvonnestic_179,

Summary by start number:

Start 6:

- Found in 193 of 220 (87.7%) of genes in pham
- Manual Annotations of this start: 33 of 183
- Called 17.1% of time when present
- Phage (with cluster) where this start called: Amataga_70 (C1), Atlantean_69 (C1), Babyland_69 (C1), Basquiat_66 (C1), BeanWater_64 (C1), Bonray_71 (C1), Breeniome_72 (C1), Cali_67 (C1), ChaylaJr_66 (C1), Colt_62 (C1), DTDevon_71 (C1), Daffodil_75 (C1), ET08_61 (C1), Gizmo_75 (C1), Issimir_70 (C1), LifeSavor_69 (C1), McGee_71 (C1), Melpomini_65 (C1), Morizzled23_72 (C1), Nappy_72 (C1), Pio_75 (C1), Pivoine_69 (C1), Quasimodo_70 (C1), SVoro_69 (C1), Shrimp_71 (C1), SmallFry_70 (C1), Teardrop_70 (C1), Tortoise16_68 (C1), Trinitium_66 (C1), ValleyTerrace_70 (C1), Wally_69 (C1), YoungMoneyMata_70 (C1), Zalkecks_72 (C1),

Start 7:

- Found in 216 of 220 (98.2%) of genes in pham
- Manual Annotations of this start: 148 of 183
- Called 84.7% of time when present
- Phage (with cluster) where this start called: Ablatia_68 (C1), Ading_70 (C1), Adlitam_70 (C1), Alice_64 (C1), ArcherS7_70 (C1), Asterius_73 (C1), Astraea_71 (C1), Audrick_72 (C1), Ava3_72 (C1), BackyardAgain_67 (C1), BadAgartude_69 (C1), BananaFence_71 (C1), Bangla1971_71 (C1), Belieber_64 (C1), Bezza_61 (C1), BigCity_77 (C1), Bigswole_79 (C1), Bipolarisk_70 (C1), Blackbrain_65 (C1), Blackdragon_65 (C1), Blubba_62 (C1), BobaPhatt_65 (C1), Bowman_70 (C1), Bread_70 (C1), Burrough_70 (C1), Bxz1_70 (C1), Cactojaque_65 (C1), Cane17_61 (C1), Capablanca_72 (C1), Caravan_67 (C1), Catera_69 (C1), Chargie21_66 (C1), CharlieB_68 (C1), ChickenPhender_66 (C1), Chomp_69 (C1), CindyLou_71 (C1), Cleatunium_67 (C1), Concombre_77 (C1), Dandelion_77 (C1), Darko_70 (C1), DeejaClivia_61 (C1), Delilah_71 (C1), Delylah_74 (C1), Demodog_76 (C1), Derek_70 (C1), Dessert_67 (C1), Dietrick_64 (C1), DirtMonster_65 (C1), Domi_64 (C1), DrPhinkDaddy_70 (C1), Drazdys_70 (C1), Duckfeet_63 (C1), EasyJones_72 (C1), EggyFarm_77 (C1), EmToTheThree_74 (C1), EmmaElysia_69 (C1), Erdmann_71 (C1), ErnieJ_68 (C1), Essence_69 (C1), Ewok_71 (C1), Fixie_65 (C1), Flabslab_67

(C1), Fludd_70 (C1), Fongie_69 (C1), FoxtrotP1_71 (C1), FrayBell_78 (C1), FudgeTart_72 (C1), Gabriel_72 (C1), Gamgam_70 (C1), Ghost_69 (C1), GlutenPhree_71 (C1), Grasshills_77 (C1), Grungle_60 (C1), Guwapp_69 (C1), Halldule_63 (C1), HyRo_65 (C1), I3_74 (C1), IkeLoa_66 (C1), InigoMontoya_71 (C1), InterFolia_80 (C1), Iota_65 (C1), Izajani_71 (C1), JPickles_70 (C1), Janiyra_72 (C1), JayJay_77 (C1), Jaygup_70 (C1), Jedediah_73 (C1), Jemmno_70 (C1), Jessibeth14_69 (C1), Jezreel_70 (C1), JigglyPuff_76 (C1), JulietS_64 (C1), JustHall_66 (C1), Kamryn_70 (C1), Kboogie_73 (C1), Khaleesi_70 (C1), Koguma_67 (C1), LRRHood_66 (C1), Labradorite_70 (C1), Latch_70 (C1), Lee7_68 (C1), Lethe_70 (C1), LinStu_70 (C1), Littleton_70 (C1), Loanshark_71 (C1), LolaVinca_73 (C1), LookingGlass_72 (C1), LordLeafolot_78 (C1), Lukilu_62 (C1), Lunareta_67 (C1), Maby2021_71 (C1), Mangeria_74 (C1), Matsumoto_69 (C1), Maturis_67 (C1), McWolfish_69 (C1), Megamind_70 (C1), MikeLiesIn_71 (C1), Mikro_68 (C1), MoMoMixon_71 (C1), Momo_69 (C1), Montpel_67 (C1), Naija_69 (C1), Napoleon13_67 (C1), Naval22_79 (C1), NedWong_72 (C1), Ngannou_66 (C1), Nidhogg_71 (C1), NoodleTree_73 (C1), Norm_71 (C1), NuevoMundo_76 (C1), OrediggerDelux_68 (C1), ParkTD_72 (C1), Patter_70 (C1), PharkleMinkus_76 (C1), Phlegm_72 (C1), Phox_68 (C1), Phusco_70 (C1), Pier_74 (C1), Pinkcreek_62 (C1), Pleione_73 (C1), Primadonna_66 (C1), Pupusa_76 (C1), PurduePete_70 (C1), QBert_65 (C1), Rabinovish_69 (C1), Rahel_71 (C1), Rizal_68 (C1), RoMag_65 (C1), Rocha_68 (C1), Ronan_65 (C1), Roots515_69 (C1), Salacia_74 (C1), Sauce_72 (C1), ScottMcG_68 (C1), Sebata_71 (C1), Shaqnato_64 (C1), Shelob_73 (C1), ShiaLabeouf_70 (C1), Shifa_62 (C1), Shnickers_70 (C1), SilverDipper_71 (C1), SoilZilla_66 (C1), Spec_67 (C1), Specks_76 (C1), Sprinklers_67 (C1), Spud_70 (C1), SrishMeg2525_70 (C1), StephanieG_70 (C1), StubbySaigey_72 (C1), Stubby_65 (C1), Substance289_66 (C1), Tainan_76 (C1), TinyTim_71 (C1), Tonenili_84 (C1), Turret_65 (C1), Tyke_72 (C1), Vortrix_84 (C1), Willis_72 (C1), Yassified_67 (C1), YemiJoy2021_71 (C1), Yucca_70 (C1), Zeenon_72 (C1), ZygoTaiga_70 (C1),

Start 8:

- Found in 4 of 220 (1.8%) of genes in pham
- Manual Annotations of this start: 2 of 183
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan_185 (DD), JonJames_179 (DD), Stewart25555_164 (FC), Yvonetastic_179 (DD),

Summary by clusters:

There are 3 clusters represented in this pham: C1, FC, DD,

Info for manual annotations of cluster C1:

- Start number 6 was manually annotated 33 times for cluster C1.
- Start number 7 was manually annotated 148 times for cluster C1.

Info for manual annotations of cluster DD:

- Start number 8 was manually annotated 2 times for cluster DD.

Gene Information:

Gene: Ablatia_68 Start: 23154, Stop: 23834, Start Num: 7

Candidate Starts for Ablatia_68:

(Start: 6 @23139 has 33 MA's), (Start: 7 @23154 has 148 MA's), (12, 23328), (14, 23379), (20, 23526), (22, 23598), (23, 23607), (27, 23661), (28, 23682), (30, 23721), (32, 23772),

Gene: Ading_70 Start: 23196, Stop: 23876, Start Num: 7

Candidate Starts for Ading_70:

(Start: 6 @23181 has 33 MA's), (Start: 7 @23196 has 148 MA's), (12, 23370), (14, 23421), (20, 23568), (22, 23640), (23, 23649), (27, 23703), (28, 23724), (30, 23763), (32, 23814),

Gene: Adlitam_70 Start: 23213, Stop: 23893, Start Num: 7

Candidate Starts for Adlitam_70:

(Start: 6 @23198 has 33 MA's), (Start: 7 @23213 has 148 MA's), (12, 23387), (14, 23438), (20, 23585), (22, 23657), (23, 23666), (27, 23720), (28, 23741), (30, 23780), (32, 23831),

Gene: Alice_64 Start: 22930, Stop: 23613, Start Num: 7

Candidate Starts for Alice_64:

(Start: 7 @22930 has 148 MA's), (12, 23104), (14, 23155), (22, 23374), (23, 23383), (25, 23401), (27, 23437), (28, 23458), (30, 23497), (32, 23548),

Gene: Amataga_70 Start: 23202, Stop: 23897, Start Num: 6

Candidate Starts for Amataga_70:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: ArcherS7_70 Start: 23580, Stop: 24260, Start Num: 7

Candidate Starts for ArcherS7_70:

(Start: 6 @23565 has 33 MA's), (Start: 7 @23580 has 148 MA's), (12, 23754), (14, 23805), (20, 23952), (22, 24024), (23, 24033), (27, 24087), (28, 24108), (30, 24147), (32, 24198),

Gene: Asterius_73 Start: 23615, Stop: 24295, Start Num: 7

Candidate Starts for Asterius_73:

(Start: 6 @23600 has 33 MA's), (Start: 7 @23615 has 148 MA's), (12, 23789), (14, 23840), (20, 23987), (22, 24059), (23, 24068), (27, 24122), (28, 24143), (30, 24182), (32, 24233),

Gene: Astraea_71 Start: 24333, Stop: 25016, Start Num: 7

Candidate Starts for Astraea_71:

(Start: 7 @24333 has 148 MA's), (12, 24507), (14, 24558), (22, 24777), (23, 24786), (25, 24804), (27, 24840), (28, 24861), (30, 24900), (32, 24951),

Gene: Atlantean_69 Start: 23202, Stop: 23897, Start Num: 6

Candidate Starts for Atlantean_69:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: Audrick_72 Start: 23196, Stop: 23876, Start Num: 7

Candidate Starts for Audrick_72:

(Start: 6 @23181 has 33 MA's), (Start: 7 @23196 has 148 MA's), (12, 23370), (14, 23421), (20, 23568), (22, 23640), (23, 23649), (27, 23703), (28, 23724), (30, 23763), (32, 23814),

Gene: Ava3_72 Start: 24333, Stop: 25016, Start Num: 7

Candidate Starts for Ava3_72:

(Start: 6 @24318 has 33 MA's), (Start: 7 @24333 has 148 MA's), (12, 24507), (14, 24558), (20, 24705), (22, 24777), (23, 24786), (27, 24840), (28, 24861), (30, 24900), (32, 24951),

Gene: Babyland_69 Start: 22640, Stop: 23335, Start Num: 6

Candidate Starts for Babyland_69:

(Start: 6 @22640 has 33 MA's), (Start: 7 @22655 has 148 MA's), (12, 22829), (14, 22880), (20, 23027), (22, 23099), (23, 23108), (27, 23162), (28, 23183), (30, 23222), (32, 23273),

Gene: BackyardAgain_67 Start: 23148, Stop: 23828, Start Num: 7

Candidate Starts for BackyardAgain_67:

(Start: 6 @23133 has 33 MA's), (Start: 7 @23148 has 148 MA's), (12, 23322), (14, 23373), (20, 23520), (22, 23592), (23, 23601), (27, 23655), (28, 23676), (30, 23715), (32, 23766),

Gene: BadAgartude_69 Start: 24674, Stop: 25357, Start Num: 7

Candidate Starts for BadAgartude_69:

(Start: 7 @24674 has 148 MA's), (12, 24848), (14, 24899), (22, 25118), (23, 25127), (25, 25145), (27, 25181), (28, 25202), (30, 25241), (32, 25292),

Gene: BananaFence_71 Start: 24155, Stop: 24838, Start Num: 7

Candidate Starts for BananaFence_71:

(Start: 6 @24140 has 33 MA's), (Start: 7 @24155 has 148 MA's), (12, 24329), (14, 24380), (16, 24470), (20, 24527), (22, 24599), (23, 24608), (27, 24662), (28, 24683), (30, 24722), (32, 24773),

Gene: Bangla1971_71 Start: 23710, Stop: 24390, Start Num: 7

Candidate Starts for Bangla1971_71:

(Start: 6 @23695 has 33 MA's), (Start: 7 @23710 has 148 MA's), (12, 23884), (14, 23935), (20, 24082), (22, 24154), (23, 24163), (27, 24217), (28, 24238), (30, 24277), (32, 24328),

Gene: Basquiat_66 Start: 22684, Stop: 23379, Start Num: 6

Candidate Starts for Basquiat_66:

(Start: 6 @22684 has 33 MA's), (Start: 7 @22699 has 148 MA's), (12, 22873), (14, 22924), (20, 23071), (22, 23143), (23, 23152), (27, 23206), (28, 23227), (30, 23266), (32, 23317),

Gene: BeanWater_64 Start: 23606, Stop: 24304, Start Num: 6

Candidate Starts for BeanWater_64:

(Start: 6 @23606 has 33 MA's), (Start: 7 @23621 has 148 MA's), (12, 23795), (14, 23846), (20, 23993), (22, 24065), (23, 24074), (27, 24128), (28, 24149), (30, 24188), (32, 24239),

Gene: Belieber_64 Start: 22569, Stop: 23249, Start Num: 7

Candidate Starts for Belieber_64:

(Start: 6 @22554 has 33 MA's), (Start: 7 @22569 has 148 MA's), (12, 22743), (14, 22794), (20, 22941), (22, 23013), (23, 23022), (27, 23076), (28, 23097), (30, 23136), (32, 23187),

Gene: Bezza_61 Start: 23104, Stop: 23787, Start Num: 7

Candidate Starts for Bezza_61:

(Start: 7 @23104 has 148 MA's), (12, 23278), (14, 23329), (22, 23548), (23, 23557), (25, 23575), (27, 23611), (28, 23632), (30, 23671), (32, 23722),

Gene: BigCity_77 Start: 26041, Stop: 26721, Start Num: 7

Candidate Starts for BigCity_77:

(Start: 6 @26026 has 33 MA's), (Start: 7 @26041 has 148 MA's), (12, 26215), (14, 26266), (16, 26356), (20, 26413), (22, 26485), (23, 26494), (27, 26548), (28, 26569), (30, 26608), (32, 26659),

Gene: Bigswole_79 Start: 27232, Stop: 27912, Start Num: 7

Candidate Starts for Bigswole_79:

(Start: 6 @27217 has 33 MA's), (Start: 7 @27232 has 148 MA's), (12, 27406), (14, 27457), (16, 27547), (20, 27604), (22, 27676), (23, 27685), (27, 27739), (28, 27760), (30, 27799), (32, 27850),

Gene: Bipolarisk_70 Start: 23986, Stop: 24669, Start Num: 7

Candidate Starts for Bipolarisk_70:

(Start: 6 @23971 has 33 MA's), (Start: 7 @23986 has 148 MA's), (12, 24160), (14, 24211), (20, 24358), (22, 24430), (23, 24439), (27, 24493), (28, 24514), (30, 24553), (32, 24604),

Gene: Blackbrain_65 Start: 22516, Stop: 23196, Start Num: 7

Candidate Starts for Blackbrain_65:

(Start: 6 @22501 has 33 MA's), (Start: 7 @22516 has 148 MA's), (12, 22690), (14, 22741), (20, 22888), (22, 22960), (23, 22969), (27, 23023), (28, 23044), (30, 23083), (32, 23134),

Gene: Blackdragon_65 Start: 23142, Stop: 23825, Start Num: 7

Candidate Starts for Blackdragon_65:

(Start: 7 @23142 has 148 MA's), (12, 23316), (14, 23367), (22, 23586), (23, 23595), (27, 23649), (28, 23670), (30, 23709), (32, 23760),

Gene: Blubba_62 Start: 21630, Stop: 22313, Start Num: 7

Candidate Starts for Blubba_62:

(3, 21561), (Start: 6 @21612 has 33 MA's), (Start: 7 @21630 has 148 MA's), (12, 21804), (14, 21855), (16, 21945), (22, 22074), (23, 22083), (27, 22137), (28, 22158), (30, 22197), (32, 22248),

Gene: BobaPhatt_65 Start: 22849, Stop: 23529, Start Num: 7

Candidate Starts for BobaPhatt_65:

(Start: 6 @22834 has 33 MA's), (Start: 7 @22849 has 148 MA's), (12, 23023), (14, 23074), (20, 23221), (22, 23293), (23, 23302), (27, 23356), (28, 23377), (30, 23416), (32, 23467),

Gene: Bonray_71 Start: 24251, Stop: 24949, Start Num: 6

Candidate Starts for Bonray_71:

(Start: 6 @24251 has 33 MA's), (Start: 7 @24266 has 148 MA's), (12, 24440), (14, 24491), (20, 24638), (22, 24710), (23, 24719), (27, 24773), (28, 24794), (30, 24833), (32, 24884),

Gene: Bowman_70 Start: 24544, Stop: 25227, Start Num: 7

Candidate Starts for Bowman_70:

(Start: 6 @24529 has 33 MA's), (Start: 7 @24544 has 148 MA's), (12, 24718), (14, 24769), (16, 24859), (20, 24916), (22, 24988), (23, 24997), (27, 25051), (28, 25072), (30, 25111), (32, 25162),

Gene: Bread_70 Start: 23952, Stop: 24632, Start Num: 7

Candidate Starts for Bread_70:

(Start: 6 @23937 has 33 MA's), (Start: 7 @23952 has 148 MA's), (12, 24126), (14, 24177), (20, 24324), (22, 24396), (23, 24405), (27, 24459), (28, 24480), (30, 24519), (32, 24570),

Gene: Breeniome_72 Start: 23445, Stop: 24143, Start Num: 6

Candidate Starts for Breeniome_72:

(Start: 6 @23445 has 33 MA's), (Start: 7 @23460 has 148 MA's), (12, 23634), (14, 23685), (16, 23775), (20, 23832), (21, 23856), (22, 23904), (23, 23913), (27, 23967), (28, 23988), (30, 24027), (32, 24078),

Gene: Burrough_70 Start: 23985, Stop: 24665, Start Num: 7

Candidate Starts for Burrough_70:

(Start: 6 @23970 has 33 MA's), (Start: 7 @23985 has 148 MA's), (12, 24159), (14, 24210), (20, 24357), (22, 24429), (23, 24438), (27, 24492), (28, 24513), (30, 24552), (32, 24603),

Gene: Bxz1_70 Start: 25036, Stop: 25716, Start Num: 7

Candidate Starts for Bxz1_70:

(Start: 6 @25021 has 33 MA's), (Start: 7 @25036 has 148 MA's), (12, 25210), (14, 25261), (20, 25408), (22, 25480), (23, 25489), (27, 25543), (28, 25564), (30, 25603), (32, 25654),

Gene: Cactojaque_65 Start: 22623, Stop: 23303, Start Num: 7

Candidate Starts for Cactojaque_65:

(Start: 6 @22608 has 33 MA's), (Start: 7 @22623 has 148 MA's), (12, 22797), (14, 22848), (20, 22995), (22, 23067), (23, 23076), (27, 23130), (28, 23151), (30, 23190), (32, 23241),

Gene: Cali_67 Start: 24843, Stop: 25541, Start Num: 6

Candidate Starts for Cali_67:

(Start: 6 @24843 has 33 MA's), (Start: 7 @24858 has 148 MA's), (12, 25032), (14, 25083), (20, 25230), (22, 25302), (23, 25311), (27, 25365), (28, 25386), (30, 25425), (32, 25476),

Gene: Cane17_61 Start: 21240, Stop: 21923, Start Num: 7

Candidate Starts for Cane17_61:

(3, 21171), (Start: 6 @21222 has 33 MA's), (Start: 7 @21240 has 148 MA's), (12, 21414), (14, 21465), (16, 21555), (22, 21684), (23, 21693), (27, 21747), (28, 21768), (30, 21807), (32, 21858),

Gene: Capablanca_72 Start: 24342, Stop: 25022, Start Num: 7

Candidate Starts for Capablanca_72:

(Start: 6 @24327 has 33 MA's), (Start: 7 @24342 has 148 MA's), (12, 24516), (14, 24567), (20, 24714), (22, 24786), (23, 24795), (27, 24849), (28, 24870), (30, 24909), (32, 24960),

Gene: Caravan_67 Start: 23334, Stop: 24017, Start Num: 7

Candidate Starts for Caravan_67:

(Start: 6 @23319 has 33 MA's), (Start: 7 @23334 has 148 MA's), (12, 23508), (14, 23559), (20, 23706), (22, 23778), (23, 23787), (27, 23841), (28, 23862), (30, 23901), (32, 23952),

Gene: Cardigan_185 Start: 92625, Stop: 92020, Start Num: 8

Candidate Starts for Cardigan_185:

(4, 92730), (Start: 8 @92625 has 2 MA's), (9, 92577), (10, 92568), (11, 92562), (17, 92355), (18, 92352), (29, 92151), (33, 92040),

Gene: Catera_69 Start: 23155, Stop: 23838, Start Num: 7

Candidate Starts for Catera_69:

(Start: 6 @23140 has 33 MA's), (Start: 7 @23155 has 148 MA's), (12, 23329), (14, 23380), (20, 23527), (22, 23599), (27, 23662), (28, 23683), (30, 23722), (32, 23773),

Gene: Chargie21_66 Start: 22699, Stop: 23379, Start Num: 7

Candidate Starts for Chargie21_66:

(Start: 6 @22684 has 33 MA's), (Start: 7 @22699 has 148 MA's), (12, 22873), (14, 22924), (20, 23071), (22, 23143), (23, 23152), (27, 23206), (28, 23227), (30, 23266), (32, 23317),

Gene: CharlieB_68 Start: 22856, Stop: 23539, Start Num: 7

Candidate Starts for CharlieB_68:

(Start: 6 @22841 has 33 MA's), (Start: 7 @22856 has 148 MA's), (12, 23030), (14, 23081), (20, 23228), (22, 23300), (23, 23309), (27, 23363), (28, 23384), (30, 23423), (32, 23474),

Gene: ChaylaJr_66 Start: 22719, Stop: 23417, Start Num: 6

Candidate Starts for ChaylaJr_66:

(Start: 6 @22719 has 33 MA's), (Start: 7 @22734 has 148 MA's), (12, 22908), (14, 22959), (20, 23106), (22, 23178), (23, 23187), (27, 23241), (28, 23262), (30, 23301), (32, 23352),

Gene: ChickenPhender_66 Start: 22747, Stop: 23427, Start Num: 7

Candidate Starts for ChickenPhender_66:

(Start: 6 @22732 has 33 MA's), (Start: 7 @22747 has 148 MA's), (12, 22921), (14, 22972), (20, 23119), (22, 23191), (23, 23200), (27, 23254), (28, 23275), (30, 23314), (32, 23365),

Gene: Chomp_69 Start: 23217, Stop: 23897, Start Num: 7

Candidate Starts for Chomp_69:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: CindyLou_71 Start: 23742, Stop: 24422, Start Num: 7

Candidate Starts for CindyLou_71:

(Start: 6 @23727 has 33 MA's), (Start: 7 @23742 has 148 MA's), (12, 23916), (14, 23967), (20, 24114), (22, 24186), (23, 24195), (27, 24249), (28, 24270), (30, 24309), (32, 24360),

Gene: Cleatunium_67 Start: 23640, Stop: 24323, Start Num: 7

Candidate Starts for Cleatunium_67:

(Start: 6 @23625 has 33 MA's), (Start: 7 @23640 has 148 MA's), (12, 23814), (14, 23865), (16, 23955), (20, 24012), (22, 24084), (23, 24093), (28, 24168), (30, 24207), (32, 24258),

Gene: Colt_62 Start: 21966, Stop: 22664, Start Num: 6

Candidate Starts for Colt_62:

(Start: 6 @21966 has 33 MA's), (Start: 7 @21981 has 148 MA's), (12, 22155), (14, 22206), (16, 22296), (20, 22353), (22, 22425), (23, 22434), (27, 22488), (28, 22509), (30, 22548), (32, 22599),

Gene: Concombre_77 Start: 26602, Stop: 27285, Start Num: 7

Candidate Starts for Concombre_77:

(Start: 6 @26587 has 33 MA's), (Start: 7 @26602 has 148 MA's), (12, 26776), (14, 26827), (16, 26917), (20, 26974), (22, 27046), (23, 27055), (27, 27109), (28, 27130), (30, 27169), (32, 27220),

Gene: DTDevon_71 Start: 24366, Stop: 25061, Start Num: 6

Candidate Starts for DTDevon_71:

(Start: 6 @24366 has 33 MA's), (Start: 7 @24381 has 148 MA's), (12, 24555), (14, 24606), (20, 24753), (22, 24825), (23, 24834), (27, 24888), (28, 24909), (30, 24948), (32, 24999),

Gene: Daffodil_75 Start: 24260, Stop: 24958, Start Num: 6

Candidate Starts for Daffodil_75:

(Start: 6 @24260 has 33 MA's), (Start: 7 @24275 has 148 MA's), (12, 24449), (14, 24500), (20, 24647), (22, 24719), (23, 24728), (27, 24782), (28, 24803), (30, 24842), (32, 24893),

Gene: Dandelion_77 Start: 26355, Stop: 27038, Start Num: 7

Candidate Starts for Dandelion_77:

(Start: 6 @26340 has 33 MA's), (Start: 7 @26355 has 148 MA's), (12, 26529), (14, 26580), (20, 26727), (22, 26799), (23, 26808), (27, 26862), (28, 26883), (30, 26922), (32, 26973),

Gene: Darko_70 Start: 24124, Stop: 24804, Start Num: 7

Candidate Starts for Darko_70:

(Start: 6 @24109 has 33 MA's), (Start: 7 @24124 has 148 MA's), (12, 24298), (14, 24349), (20, 24496), (22, 24568), (23, 24577), (27, 24631), (28, 24652), (30, 24691), (32, 24742),

Gene: DeejaClivia_61 Start: 21374, Stop: 22057, Start Num: 7

Candidate Starts for DeejaClivia_61:

(Start: 7 @21374 has 148 MA's), (12, 21548), (14, 21599), (22, 21818), (23, 21827), (25, 21845), (27, 21881), (28, 21902), (30, 21941), (32, 21992),

Gene: Delilah_71 Start: 24275, Stop: 24958, Start Num: 7

Candidate Starts for Delilah_71:

(Start: 6 @24260 has 33 MA's), (Start: 7 @24275 has 148 MA's), (12, 24449), (14, 24500), (20, 24647), (22, 24719), (23, 24728), (27, 24782), (28, 24803), (30, 24842), (32, 24893),

Gene: Delylah_74 Start: 24053, Stop: 24736, Start Num: 7

Candidate Starts for Delylah_74:

(Start: 6 @24038 has 33 MA's), (Start: 7 @24053 has 148 MA's), (12, 24227), (14, 24278), (20, 24425), (22, 24497), (23, 24506), (27, 24560), (28, 24581), (30, 24620), (32, 24671),

Gene: Demodog_76 Start: 26602, Stop: 27285, Start Num: 7

Candidate Starts for Demodog_76:

(Start: 6 @26587 has 33 MA's), (Start: 7 @26602 has 148 MA's), (12, 26776), (14, 26827), (16, 26917), (20, 26974), (22, 27046), (23, 27055), (27, 27109), (28, 27130), (30, 27169), (32, 27220),

Gene: Derek_70 Start: 23548, Stop: 24228, Start Num: 7

Candidate Starts for Derek_70:

(Start: 6 @23533 has 33 MA's), (Start: 7 @23548 has 148 MA's), (12, 23722), (14, 23773), (20, 23920), (22, 23992), (23, 24001), (27, 24055), (28, 24076), (30, 24115), (32, 24166),

Gene: Dessert_67 Start: 23217, Stop: 23897, Start Num: 7

Candidate Starts for Dessert_67:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: Dietrick_64 Start: 22393, Stop: 23076, Start Num: 7

Candidate Starts for Dietrick_64:

(Start: 6 @22378 has 33 MA's), (Start: 7 @22393 has 148 MA's), (12, 22567), (14, 22618), (20, 22765), (22, 22837), (23, 22846), (27, 22900), (28, 22921), (30, 22960), (32, 23011),

Gene: DirtMonster_65 Start: 23715, Stop: 24398, Start Num: 7

Candidate Starts for DirtMonster_65:

(Start: 6 @23700 has 33 MA's), (Start: 7 @23715 has 148 MA's), (12, 23889), (14, 23940), (20, 24087), (22, 24159), (23, 24168), (27, 24222), (28, 24243), (30, 24282), (32, 24333),

Gene: Domi_64 Start: 23166, Stop: 23846, Start Num: 7

Candidate Starts for Domi_64:

(Start: 6 @23151 has 33 MA's), (Start: 7 @23166 has 148 MA's), (12, 23340), (14, 23391), (20, 23538), (22, 23610), (23, 23619), (27, 23673), (28, 23694), (30, 23733), (32, 23784),

Gene: DrPhinkDaddy_70 Start: 24330, Stop: 25013, Start Num: 7

Candidate Starts for DrPhinkDaddy_70:

(Start: 6 @24315 has 33 MA's), (Start: 7 @24330 has 148 MA's), (12, 24504), (14, 24555), (20, 24702), (22, 24774), (23, 24783), (27, 24837), (28, 24858), (30, 24897), (32, 24948),

Gene: Drazdys_70 Start: 24054, Stop: 24734, Start Num: 7

Candidate Starts for Drazdys_70:

(Start: 6 @24039 has 33 MA's), (Start: 7 @24054 has 148 MA's), (12, 24228), (14, 24279), (20, 24426), (22, 24498), (23, 24507), (27, 24561), (28, 24582), (30, 24621), (32, 24672),

Gene: Duckfeet_63 Start: 22823, Stop: 23506, Start Num: 7

Candidate Starts for Duckfeet_63:

(Start: 6 @22808 has 33 MA's), (Start: 7 @22823 has 148 MA's), (12, 22997), (14, 23048), (20, 23195), (22, 23267), (23, 23276), (27, 23330), (28, 23351), (30, 23390), (32, 23441),

Gene: ET08_61 Start: 22709, Stop: 23407, Start Num: 6

Candidate Starts for ET08_61:

(Start: 6 @22709 has 33 MA's), (Start: 7 @22724 has 148 MA's), (12, 22898), (14, 22949), (20, 23096), (22, 23168), (23, 23177), (27, 23231), (28, 23252), (30, 23291), (32, 23342),

Gene: EasyJones_72 Start: 23878, Stop: 24558, Start Num: 7

Candidate Starts for EasyJones_72:

(Start: 6 @23863 has 33 MA's), (Start: 7 @23878 has 148 MA's), (12, 24052), (14, 24103), (20, 24250), (22, 24322), (23, 24331), (27, 24385), (28, 24406), (30, 24445), (32, 24496),

Gene: EggyFarm_77 Start: 26041, Stop: 26721, Start Num: 7

Candidate Starts for EggyFarm_77:

(Start: 6 @26026 has 33 MA's), (Start: 7 @26041 has 148 MA's), (12, 26215), (14, 26266), (16, 26356), (20, 26413), (22, 26485), (23, 26494), (27, 26548), (28, 26569), (30, 26608), (32, 26659),

Gene: EmToTheThree_74 Start: 25747, Stop: 26430, Start Num: 7

Candidate Starts for EmToTheThree_74:

(Start: 6 @25732 has 33 MA's), (Start: 7 @25747 has 148 MA's), (12, 25921), (14, 25972), (20, 26119), (22, 26191), (23, 26200), (27, 26254), (28, 26275), (30, 26314), (32, 26365),

Gene: EmmaElysia_69 Start: 22787, Stop: 23467, Start Num: 7

Candidate Starts for EmmaElysia_69:

(Start: 6 @22772 has 33 MA's), (Start: 7 @22787 has 148 MA's), (12, 22961), (14, 23012), (20, 23159), (22, 23231), (23, 23240), (27, 23294), (28, 23315), (30, 23354), (32, 23405),

Gene: Erdmann_71 Start: 24275, Stop: 24958, Start Num: 7

Candidate Starts for Erdmann_71:

(Start: 6 @24260 has 33 MA's), (Start: 7 @24275 has 148 MA's), (12, 24449), (14, 24500), (20, 24647), (22, 24719), (23, 24728), (27, 24782), (28, 24803), (30, 24842), (32, 24893),

Gene: ErnieJ_68 Start: 23222, Stop: 23902, Start Num: 7

Candidate Starts for ErnieJ_68:

(Start: 6 @23207 has 33 MA's), (Start: 7 @23222 has 148 MA's), (12, 23396), (14, 23447), (20, 23594), (22, 23666), (23, 23675), (27, 23729), (28, 23750), (30, 23789), (32, 23840),

Gene: Essence_69 Start: 23071, Stop: 23754, Start Num: 7

Candidate Starts for Essence_69:

(Start: 6 @23056 has 33 MA's), (Start: 7 @23071 has 148 MA's), (12, 23245), (14, 23296), (20, 23443), (22, 23515), (23, 23524), (27, 23578), (28, 23599), (30, 23638), (32, 23689),

Gene: Ewok_71 Start: 24278, Stop: 24961, Start Num: 7

Candidate Starts for Ewok_71:

(Start: 6 @24263 has 33 MA's), (Start: 7 @24278 has 148 MA's), (12, 24452), (14, 24503), (20, 24650), (22, 24722), (23, 24731), (27, 24785), (28, 24806), (30, 24845), (32, 24896),

Gene: Fixie_65 Start: 22416, Stop: 23096, Start Num: 7

Candidate Starts for Fixie_65:

(Start: 6 @22401 has 33 MA's), (Start: 7 @22416 has 148 MA's), (12, 22590), (14, 22641), (20, 22788), (22, 22860), (23, 22869), (27, 22923), (28, 22944), (30, 22983), (32, 23034),

Gene: Flabslab_67 Start: 23297, Stop: 23980, Start Num: 7

Candidate Starts for Flabslab_67:

(Start: 6 @23282 has 33 MA's), (Start: 7 @23297 has 148 MA's), (12, 23471), (14, 23522), (20, 23669), (22, 23741), (23, 23750), (27, 23804), (28, 23825), (30, 23864), (32, 23915),

Gene: Fludd_70 Start: 23146, Stop: 23826, Start Num: 7

Candidate Starts for Fludd_70:

(Start: 6 @23131 has 33 MA's), (Start: 7 @23146 has 148 MA's), (12, 23320), (14, 23371), (20, 23518), (22, 23590), (23, 23599), (27, 23653), (28, 23674), (30, 23713), (32, 23764),

Gene: Fongie_69 Start: 24490, Stop: 25173, Start Num: 7

Candidate Starts for Fongie_69:

(Start: 6 @24475 has 33 MA's), (Start: 7 @24490 has 148 MA's), (12, 24664), (14, 24715), (20, 24862), (22, 24934), (23, 24943), (27, 24997), (28, 25018), (30, 25057), (32, 25108),

Gene: FoxtrotP1_71 Start: 24662, Stop: 25345, Start Num: 7

Candidate Starts for FoxtrotP1_71:

(Start: 6 @24647 has 33 MA's), (Start: 7 @24662 has 148 MA's), (12, 24836), (14, 24887), (20, 25034), (22, 25106), (23, 25115), (27, 25169), (28, 25190), (30, 25229), (32, 25280),

Gene: FrayBell_78 Start: 26058, Stop: 26741, Start Num: 7

Candidate Starts for FrayBell_78:

(Start: 6 @26043 has 33 MA's), (Start: 7 @26058 has 148 MA's), (12, 26232), (14, 26283), (16, 26373), (20, 26430), (22, 26502), (23, 26511), (27, 26565), (28, 26586), (30, 26625), (32, 26676),

Gene: FudgeTart_72 Start: 24193, Stop: 24876, Start Num: 7

Candidate Starts for FudgeTart_72:

(Start: 6 @24178 has 33 MA's), (Start: 7 @24193 has 148 MA's), (12, 24367), (14, 24418), (20, 24565), (22, 24637), (23, 24646), (27, 24700), (28, 24721), (30, 24760), (32, 24811),

Gene: Gabriel_72 Start: 23450, Stop: 24130, Start Num: 7

Candidate Starts for Gabriel_72:

(Start: 6 @23435 has 33 MA's), (Start: 7 @23450 has 148 MA's), (12, 23624), (14, 23675), (20, 23822), (22, 23894), (23, 23903), (27, 23957), (28, 23978), (30, 24017), (32, 24068),

Gene: Gamgam_70 Start: 23217, Stop: 23897, Start Num: 7

Candidate Starts for Gamgam_70:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: Ghost_69 Start: 23217, Stop: 23897, Start Num: 7

Candidate Starts for Ghost_69:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: Gizmo_75 Start: 23943, Stop: 24641, Start Num: 6

Candidate Starts for Gizmo_75:

(Start: 6 @23943 has 33 MA's), (Start: 7 @23958 has 148 MA's), (12, 24132), (14, 24183), (20, 24330), (22, 24402), (23, 24411), (27, 24465), (28, 24486), (30, 24525), (32, 24576),

Gene: GlutenPhree_71 Start: 23217, Stop: 23897, Start Num: 7
Candidate Starts for GlutenPhree_71:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: Grasshills_77 Start: 26041, Stop: 26721, Start Num: 7
Candidate Starts for Grasshills_77:

(Start: 6 @26026 has 33 MA's), (Start: 7 @26041 has 148 MA's), (12, 26215), (14, 26266), (16, 26356), (20, 26413), (22, 26485), (23, 26494), (27, 26548), (28, 26569), (30, 26608), (32, 26659),

Gene: Grungle_60 Start: 21408, Stop: 22091, Start Num: 7
Candidate Starts for Grungle_60:

(Start: 7 @21408 has 148 MA's), (12, 21582), (14, 21633), (22, 21852), (23, 21861), (25, 21879), (27, 21915), (28, 21936), (30, 21975), (32, 22026),

Gene: Guwapp_69 Start: 23312, Stop: 23992, Start Num: 7
Candidate Starts for Guwapp_69:

(Start: 6 @23297 has 33 MA's), (Start: 7 @23312 has 148 MA's), (12, 23486), (14, 23537), (20, 23684), (22, 23756), (23, 23765), (27, 23819), (28, 23840), (30, 23879), (32, 23930),

Gene: Halldule_63 Start: 21987, Stop: 22670, Start Num: 7
Candidate Starts for Halldule_63:

(Start: 6 @21972 has 33 MA's), (Start: 7 @21987 has 148 MA's), (12, 22161), (14, 22212), (20, 22359), (22, 22431), (23, 22440), (27, 22494), (28, 22515), (30, 22554), (32, 22605),

Gene: HyRo_65 Start: 23337, Stop: 24020, Start Num: 7
Candidate Starts for HyRo_65:

(Start: 7 @23337 has 148 MA's), (12, 23511), (14, 23562), (22, 23781), (23, 23790), (25, 23808), (27, 23844), (28, 23865), (30, 23904), (32, 23955),

Gene: I3_74 Start: 24237, Stop: 24917, Start Num: 7
Candidate Starts for I3_74:

(1, 23850), (2, 23922), (5, 24219), (Start: 7 @24237 has 148 MA's), (12, 24411), (14, 24462), (20, 24609), (22, 24681), (23, 24690), (27, 24744), (28, 24765), (30, 24804), (32, 24855),

Gene: IkeLoa_66 Start: 22960, Stop: 23643, Start Num: 7
Candidate Starts for IkeLoa_66:

(Start: 6 @22945 has 33 MA's), (Start: 7 @22960 has 148 MA's), (12, 23134), (14, 23185), (16, 23275), (20, 23332), (22, 23404), (23, 23413), (27, 23467), (28, 23488), (30, 23527), (32, 23578),

Gene: InigoMontoya_71 Start: 23178, Stop: 23858, Start Num: 7
Candidate Starts for InigoMontoya_71:

(Start: 6 @23163 has 33 MA's), (Start: 7 @23178 has 148 MA's), (12, 23352), (14, 23403), (20, 23550), (22, 23622), (23, 23631), (27, 23685), (28, 23706), (30, 23745), (32, 23796),

Gene: InterFolia_80 Start: 26723, Stop: 27406, Start Num: 7
Candidate Starts for InterFolia_80:

(Start: 6 @26708 has 33 MA's), (Start: 7 @26723 has 148 MA's), (12, 26897), (14, 26948), (16, 27038), (20, 27095), (22, 27167), (23, 27176), (27, 27230), (28, 27251), (30, 27290), (32, 27341),

Gene: Iota_65 Start: 23312, Stop: 23995, Start Num: 7

Candidate Starts for Iota_65:

(Start: 6 @23297 has 33 MA's), (Start: 7 @23312 has 148 MA's), (12, 23486), (14, 23537), (20, 23684), (22, 23756), (23, 23765), (27, 23819), (28, 23840), (30, 23879), (32, 23930),

Gene: Issimir_70 Start: 24203, Stop: 24901, Start Num: 6

Candidate Starts for Issimir_70:

(Start: 6 @24203 has 33 MA's), (Start: 7 @24218 has 148 MA's), (12, 24392), (14, 24443), (20, 24590), (22, 24662), (23, 24671), (27, 24725), (28, 24746), (30, 24785), (32, 24836),

Gene: Izajani_71 Start: 24291, Stop: 24974, Start Num: 7

Candidate Starts for Izajani_71:

(Start: 6 @24276 has 33 MA's), (Start: 7 @24291 has 148 MA's), (12, 24465), (14, 24516), (20, 24663), (22, 24735), (23, 24744), (27, 24798), (28, 24819), (30, 24858), (32, 24909),

Gene: JPickles_70 Start: 22415, Stop: 23098, Start Num: 7

Candidate Starts for JPickles_70:

(Start: 6 @22400 has 33 MA's), (Start: 7 @22415 has 148 MA's), (12, 22589), (14, 22640), (20, 22787), (22, 22859), (23, 22868), (27, 22922), (28, 22943), (30, 22982), (32, 23033),

Gene: Janiyra_72 Start: 23976, Stop: 24656, Start Num: 7

Candidate Starts for Janiyra_72:

(Start: 6 @23961 has 33 MA's), (Start: 7 @23976 has 148 MA's), (12, 24150), (14, 24201), (20, 24348), (22, 24420), (23, 24429), (27, 24483), (28, 24504), (30, 24543), (32, 24594),

Gene: JayJay_77 Start: 24772, Stop: 25455, Start Num: 7

Candidate Starts for JayJay_77:

(Start: 6 @24757 has 33 MA's), (Start: 7 @24772 has 148 MA's), (12, 24946), (14, 24997), (20, 25144), (22, 25216), (23, 25225), (27, 25279), (28, 25300), (30, 25339), (32, 25390),

Gene: Jaygup_70 Start: 23214, Stop: 23894, Start Num: 7

Candidate Starts for Jaygup_70:

(Start: 6 @23199 has 33 MA's), (Start: 7 @23214 has 148 MA's), (12, 23388), (14, 23439), (20, 23586), (22, 23658), (23, 23667), (27, 23721), (28, 23742), (30, 23781), (32, 23832),

Gene: Jedediah_73 Start: 23714, Stop: 24394, Start Num: 7

Candidate Starts for Jedediah_73:

(Start: 6 @23699 has 33 MA's), (Start: 7 @23714 has 148 MA's), (12, 23888), (14, 23939), (20, 24086), (22, 24158), (23, 24167), (27, 24221), (28, 24242), (30, 24281), (32, 24332),

Gene: Jemmno_70 Start: 23217, Stop: 23897, Start Num: 7

Candidate Starts for Jemmno_70:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: Jessibeth14_69 Start: 23740, Stop: 24420, Start Num: 7

Candidate Starts for Jessibeth14_69:

(Start: 6 @23725 has 33 MA's), (Start: 7 @23740 has 148 MA's), (12, 23914), (14, 23965), (20, 24112), (22, 24184), (23, 24193), (27, 24247), (28, 24268), (30, 24307), (32, 24358),

Gene: Jezreel_70 Start: 23537, Stop: 24217, Start Num: 7

Candidate Starts for Jezreel_70:

(Start: 6 @23522 has 33 MA's), (Start: 7 @23537 has 148 MA's), (12, 23711), (14, 23762), (20, 23909), (22, 23981), (23, 23990), (27, 24044), (28, 24065), (30, 24104), (32, 24155),

Gene: JigglyPuff_76 Start: 25933, Stop: 26616, Start Num: 7

Candidate Starts for JigglyPuff_76:

(Start: 6 @25918 has 33 MA's), (Start: 7 @25933 has 148 MA's), (12, 26107), (14, 26158), (16, 26248), (20, 26305), (22, 26377), (23, 26386), (27, 26440), (28, 26461), (30, 26500), (32, 26551),

Gene: JonJames_179 Start: 93545, Stop: 92940, Start Num: 8

Candidate Starts for JonJames_179:

(4, 93650), (Start: 8 @93545 has 2 MA's), (9, 93497), (10, 93488), (11, 93482), (17, 93275), (18, 93272), (29, 93071), (33, 92960),

Gene: JulietS_64 Start: 21838, Stop: 22521, Start Num: 7

Candidate Starts for JulietS_64:

(Start: 6 @21823 has 33 MA's), (Start: 7 @21838 has 148 MA's), (12, 22012), (14, 22063), (20, 22210), (22, 22282), (23, 22291), (27, 22345), (28, 22366), (30, 22405), (32, 22456),

Gene: JustHall_66 Start: 23536, Stop: 24216, Start Num: 7

Candidate Starts for JustHall_66:

(Start: 6 @23521 has 33 MA's), (Start: 7 @23536 has 148 MA's), (12, 23710), (14, 23761), (20, 23908), (22, 23980), (23, 23989), (27, 24043), (28, 24064), (30, 24103), (32, 24154),

Gene: Kamryn_70 Start: 23897, Stop: 24577, Start Num: 7

Candidate Starts for Kamryn_70:

(Start: 6 @23882 has 33 MA's), (Start: 7 @23897 has 148 MA's), (12, 24071), (14, 24122), (20, 24269), (22, 24341), (23, 24350), (27, 24404), (28, 24425), (30, 24464), (32, 24515),

Gene: Kboogie_73 Start: 23258, Stop: 23938, Start Num: 7

Candidate Starts for Kboogie_73:

(Start: 6 @23243 has 33 MA's), (Start: 7 @23258 has 148 MA's), (12, 23432), (14, 23483), (20, 23630), (22, 23702), (23, 23711), (27, 23765), (28, 23786), (30, 23825), (32, 23876),

Gene: Khaleesi_70 Start: 24022, Stop: 24705, Start Num: 7

Candidate Starts for Khaleesi_70:

(Start: 6 @24007 has 33 MA's), (Start: 7 @24022 has 148 MA's), (12, 24196), (14, 24247), (20, 24394), (22, 24466), (23, 24475), (27, 24529), (28, 24550), (30, 24589), (32, 24640),

Gene: Koguma_67 Start: 22054, Stop: 22737, Start Num: 7

Candidate Starts for Koguma_67:

(Start: 7 @22054 has 148 MA's), (12, 22228), (14, 22279), (22, 22498), (23, 22507), (27, 22561), (28, 22582), (30, 22621), (32, 22672),

Gene: LRRHood_66 Start: 23977, Stop: 24660, Start Num: 7

Candidate Starts for LRRHood_66:

(Start: 7 @23977 has 148 MA's), (12, 24151), (14, 24202), (22, 24421), (23, 24430), (25, 24448), (27, 24484), (28, 24505), (30, 24544), (32, 24595),

Gene: Labradorite_70 Start: 23334, Stop: 24014, Start Num: 7

Candidate Starts for Labradorite_70:

(Start: 6 @23319 has 33 MA's), (Start: 7 @23334 has 148 MA's), (12, 23508), (14, 23559), (20, 23706), (22, 23778), (23, 23787), (27, 23841), (28, 23862), (30, 23901), (32, 23952),

Gene: Latch_70 Start: 23217, Stop: 23897, Start Num: 7

Candidate Starts for Latch_70:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: Lee7_68 Start: 23956, Stop: 24636, Start Num: 7

Candidate Starts for Lee7_68:

(Start: 6 @23941 has 33 MA's), (Start: 7 @23956 has 148 MA's), (12, 24130), (14, 24181), (20, 24328), (22, 24400), (23, 24409), (27, 24463), (28, 24484), (30, 24523), (32, 24574),

Gene: Lethe_70 Start: 24456, Stop: 25139, Start Num: 7

Candidate Starts for Lethe_70:

(3, 24387), (Start: 6 @24438 has 33 MA's), (Start: 7 @24456 has 148 MA's), (12, 24630), (14, 24681), (16, 24771), (20, 24828), (22, 24900), (23, 24909), (27, 24963), (28, 24984), (30, 25023), (32, 25074),

Gene: LifeSavor_69 Start: 22922, Stop: 23617, Start Num: 6

Candidate Starts for LifeSavor_69:

(Start: 6 @22922 has 33 MA's), (Start: 7 @22937 has 148 MA's), (12, 23111), (14, 23162), (20, 23309), (22, 23381), (23, 23390), (27, 23444), (28, 23465), (30, 23504), (32, 23555),

Gene: LinStu_70 Start: 24685, Stop: 25368, Start Num: 7

Candidate Starts for LinStu_70:

(Start: 6 @24670 has 33 MA's), (Start: 7 @24685 has 148 MA's), (12, 24859), (14, 24910), (20, 25057), (22, 25129), (23, 25138), (27, 25192), (28, 25213), (30, 25252), (32, 25303),

Gene: Littleton_70 Start: 23217, Stop: 23897, Start Num: 7

Candidate Starts for Littleton_70:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: Loanshark_71 Start: 24275, Stop: 24958, Start Num: 7

Candidate Starts for Loanshark_71:

(Start: 6 @24260 has 33 MA's), (Start: 7 @24275 has 148 MA's), (12, 24449), (14, 24500), (20, 24647), (22, 24719), (23, 24728), (27, 24782), (28, 24803), (30, 24842), (32, 24893),

Gene: LolaVinca_73 Start: 25436, Stop: 26119, Start Num: 7

Candidate Starts for LolaVinca_73:

(Start: 6 @25421 has 33 MA's), (Start: 7 @25436 has 148 MA's), (12, 25610), (14, 25661), (20, 25808), (22, 25880), (23, 25889), (27, 25943), (28, 25964), (30, 26003), (32, 26054),

Gene: LookingGlass_72 Start: 24718, Stop: 25401, Start Num: 7

Candidate Starts for LookingGlass_72:

(Start: 6 @24703 has 33 MA's), (Start: 7 @24718 has 148 MA's), (12, 24892), (14, 24943), (16, 25033), (20, 25090), (22, 25162), (23, 25171), (27, 25225), (28, 25246), (30, 25285), (32, 25336),

Gene: LordLeafolot_78 Start: 26057, Stop: 26740, Start Num: 7

Candidate Starts for LordLeafolot_78:

(Start: 6 @26042 has 33 MA's), (Start: 7 @26057 has 148 MA's), (12, 26231), (14, 26282), (16, 26372), (20, 26429), (22, 26501), (23, 26510), (27, 26564), (28, 26585), (30, 26624), (32, 26675),

Gene: Lukilu_62 Start: 23179, Stop: 23862, Start Num: 7

Candidate Starts for Lukilu_62:

(Start: 7 @23179 has 148 MA's), (12, 23353), (14, 23404), (22, 23623), (23, 23632), (25, 23650), (27, 23686), (28, 23707), (30, 23746), (32, 23797),

Gene: Lunareta_67 Start: 24222, Stop: 24902, Start Num: 7

Candidate Starts for Lunareta_67:

(5, 24204), (Start: 7 @24222 has 148 MA's), (12, 24396), (14, 24447), (20, 24594), (22, 24666), (23, 24675), (27, 24729), (28, 24750), (30, 24789), (32, 24840),

Gene: Maby2021_71 Start: 23956, Stop: 24639, Start Num: 7

Candidate Starts for Maby2021_71:

(Start: 6 @23941 has 33 MA's), (Start: 7 @23956 has 148 MA's), (12, 24130), (14, 24181), (20, 24328), (22, 24400), (23, 24409), (27, 24463), (28, 24484), (30, 24523), (32, 24574),

Gene: Mangeria_74 Start: 25299, Stop: 25982, Start Num: 7

Candidate Starts for Mangeria_74:

(Start: 6 @25284 has 33 MA's), (Start: 7 @25299 has 148 MA's), (12, 25473), (14, 25524), (20, 25671), (22, 25743), (23, 25752), (27, 25806), (28, 25827), (30, 25866), (32, 25917),

Gene: Matsumoto_69 Start: 23178, Stop: 23858, Start Num: 7

Candidate Starts for Matsumoto_69:

(Start: 6 @23163 has 33 MA's), (Start: 7 @23178 has 148 MA's), (12, 23352), (14, 23403), (20, 23550), (22, 23622), (23, 23631), (27, 23685), (28, 23706), (30, 23745), (32, 23796),

Gene: Maturis_67 Start: 23806, Stop: 24486, Start Num: 7

Candidate Starts for Maturis_67:

(Start: 7 @23806 has 148 MA's), (12, 23980), (14, 24031), (22, 24250), (23, 24259), (25, 24277), (27, 24313), (28, 24334), (30, 24373), (32, 24424),

Gene: McGee_71 Start: 22386, Stop: 23081, Start Num: 6

Candidate Starts for McGee_71:

(Start: 6 @22386 has 33 MA's), (Start: 7 @22401 has 148 MA's), (12, 22575), (14, 22626), (20, 22773), (22, 22845), (23, 22854), (27, 22908), (28, 22929), (30, 22968), (32, 23019),

Gene: McWolfish_69 Start: 23703, Stop: 24386, Start Num: 7

Candidate Starts for McWolfish_69:

(Start: 6 @23688 has 33 MA's), (Start: 7 @23703 has 148 MA's), (12, 23877), (14, 23928), (20, 24075), (22, 24147), (23, 24156), (27, 24210), (28, 24231), (30, 24270), (32, 24321),

Gene: Megamind_70 Start: 23941, Stop: 24624, Start Num: 7

Candidate Starts for Megamind_70:

(Start: 6 @23926 has 33 MA's), (Start: 7 @23941 has 148 MA's), (12, 24115), (14, 24166), (20, 24313), (22, 24385), (23, 24394), (27, 24448), (28, 24469), (30, 24508), (32, 24559),

Gene: Melpomini_65 Start: 22275, Stop: 22970, Start Num: 6

Candidate Starts for Melpomini_65:

(Start: 6 @22275 has 33 MA's), (Start: 7 @22290 has 148 MA's), (12, 22464), (14, 22515), (20, 22662), (22, 22734), (23, 22743), (27, 22797), (28, 22818), (30, 22857), (32, 22908),

Gene: MikeLiesIn_71 Start: 24288, Stop: 24971, Start Num: 7

Candidate Starts for MikeLiesIn_71:

(Start: 6 @24273 has 33 MA's), (Start: 7 @24288 has 148 MA's), (12, 24462), (14, 24513), (20, 24660), (22, 24732), (23, 24741), (27, 24795), (28, 24816), (30, 24855), (32, 24906),

Gene: Mikro_68 Start: 24762, Stop: 25442, Start Num: 7

Candidate Starts for Mikro_68:

(Start: 6 @24747 has 33 MA's), (Start: 7 @24762 has 148 MA's), (12, 24936), (14, 24987), (20, 25134), (22, 25206), (23, 25215), (27, 25269), (28, 25290), (30, 25329), (32, 25380),

Gene: MoMoMixon_71 Start: 24373, Stop: 25056, Start Num: 7

Candidate Starts for MoMoMixon_71:

(Start: 6 @24358 has 33 MA's), (Start: 7 @24373 has 148 MA's), (12, 24547), (14, 24598), (20, 24745), (22, 24817), (23, 24826), (27, 24880), (28, 24901), (30, 24940), (32, 24991),

Gene: Momo_69 Start: 23217, Stop: 23897, Start Num: 7

Candidate Starts for Momo_69:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: Montpel_67 Start: 24222, Stop: 24902, Start Num: 7

Candidate Starts for Montpel_67:

(5, 24204), (Start: 7 @24222 has 148 MA's), (12, 24396), (14, 24447), (20, 24594), (22, 24666), (23, 24675), (27, 24729), (28, 24750), (30, 24789), (32, 24840),

Gene: Morizzled23_72 Start: 23890, Stop: 24585, Start Num: 6

Candidate Starts for Morizzled23_72:

(Start: 6 @23890 has 33 MA's), (Start: 7 @23905 has 148 MA's), (12, 24079), (14, 24130), (20, 24277), (22, 24349), (23, 24358), (27, 24412), (28, 24433), (30, 24472), (32, 24523),

Gene: Naija_69 Start: 23217, Stop: 23897, Start Num: 7

Candidate Starts for Naija_69:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: Napoleon13_67 Start: 22214, Stop: 22894, Start Num: 7

Candidate Starts for Napoleon13_67:

(Start: 6 @22199 has 33 MA's), (Start: 7 @22214 has 148 MA's), (12, 22388), (14, 22439), (20, 22586), (22, 22658), (23, 22667), (27, 22721), (28, 22742), (30, 22781), (32, 22832),

Gene: Nappy_72 Start: 24558, Stop: 25256, Start Num: 6

Candidate Starts for Nappy_72:

(Start: 6 @24558 has 33 MA's), (Start: 7 @24573 has 148 MA's), (12, 24747), (14, 24798), (20, 24945), (22, 25017), (23, 25026), (27, 25080), (28, 25101), (30, 25140), (32, 25191),

Gene: Naval22_79 Start: 25298, Stop: 25981, Start Num: 7

Candidate Starts for Naval22_79:

(Start: 6 @25283 has 33 MA's), (Start: 7 @25298 has 148 MA's), (12, 25472), (14, 25523), (20, 25670), (22, 25742), (23, 25751), (27, 25805), (28, 25826), (30, 25865), (32, 25916),

Gene: NedWong_72 Start: 24275, Stop: 24958, Start Num: 7

Candidate Starts for NedWong_72:

(Start: 6 @24260 has 33 MA's), (Start: 7 @24275 has 148 MA's), (12, 24449), (14, 24500), (20, 24647), (22, 24719), (23, 24728), (27, 24782), (28, 24803), (30, 24842), (32, 24893),

Gene: Ngannou_66 Start: 22199, Stop: 22879, Start Num: 7

Candidate Starts for Ngannou_66:

(Start: 6 @22184 has 33 MA's), (Start: 7 @22199 has 148 MA's), (12, 22373), (14, 22424), (20, 22571), (22, 22643), (23, 22652), (27, 22706), (28, 22727), (30, 22766), (32, 22817),

Gene: Nidhogg_71 Start: 24129, Stop: 24812, Start Num: 7

Candidate Starts for Nidhogg_71:

(Start: 6 @24114 has 33 MA's), (Start: 7 @24129 has 148 MA's), (12, 24303), (14, 24354), (20, 24501), (22, 24573), (23, 24582), (27, 24636), (28, 24657), (30, 24696), (32, 24747),

Gene: NoodleTree_73 Start: 24405, Stop: 25085, Start Num: 7

Candidate Starts for NoodleTree_73:

(Start: 6 @24390 has 33 MA's), (Start: 7 @24405 has 148 MA's), (12, 24579), (14, 24630), (16, 24720), (20, 24777), (22, 24849), (23, 24858), (27, 24912), (28, 24933), (30, 24972), (32, 25023),

Gene: Norm_71 Start: 24276, Stop: 24959, Start Num: 7

Candidate Starts for Norm_71:

(Start: 6 @24261 has 33 MA's), (Start: 7 @24276 has 148 MA's), (12, 24450), (14, 24501), (20, 24648), (22, 24720), (23, 24729), (27, 24783), (28, 24804), (30, 24843), (32, 24894),

Gene: NuevoMundo_76 Start: 25335, Stop: 26015, Start Num: 7

Candidate Starts for NuevoMundo_76:

(Start: 6 @25320 has 33 MA's), (Start: 7 @25335 has 148 MA's), (12, 25509), (14, 25560), (20, 25707), (22, 25779), (23, 25788), (27, 25842), (28, 25863), (30, 25902), (32, 25953),

Gene: OrediggerDelux_68 Start: 23957, Stop: 24637, Start Num: 7

Candidate Starts for OrediggerDelux_68:

(Start: 6 @23942 has 33 MA's), (Start: 7 @23957 has 148 MA's), (12, 24131), (14, 24182), (20, 24329), (22, 24401), (23, 24410), (27, 24464), (28, 24485), (30, 24524), (32, 24575),

Gene: ParkTD_72 Start: 24271, Stop: 24954, Start Num: 7

Candidate Starts for ParkTD_72:

(Start: 6 @24256 has 33 MA's), (Start: 7 @24271 has 148 MA's), (12, 24445), (14, 24496), (20, 24643), (22, 24715), (23, 24724), (27, 24778), (28, 24799), (30, 24838), (32, 24889),

Gene: Patter_70 Start: 23234, Stop: 23914, Start Num: 7

Candidate Starts for Patter_70:

(Start: 6 @23219 has 33 MA's), (Start: 7 @23234 has 148 MA's), (12, 23408), (14, 23459), (20, 23606), (22, 23678), (23, 23687), (27, 23741), (28, 23762), (30, 23801), (32, 23852),

Gene: PharkleMinkus_76 Start: 26058, Stop: 26741, Start Num: 7

Candidate Starts for PharkleMinkus_76:

(Start: 6 @26043 has 33 MA's), (Start: 7 @26058 has 148 MA's), (12, 26232), (14, 26283), (16, 26373), (20, 26430), (22, 26502), (23, 26511), (27, 26565), (28, 26586), (30, 26625), (32, 26676),

Gene: Phlegm_72 Start: 23217, Stop: 23897, Start Num: 7

Candidate Starts for Phlegm_72:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: Phox_68 Start: 24659, Stop: 25342, Start Num: 7

Candidate Starts for Phox_68:

(Start: 7 @24659 has 148 MA's), (12, 24833), (14, 24884), (22, 25103), (23, 25112), (25, 25130), (27, 25166), (28, 25187), (30, 25226), (32, 25277),

Gene: Phusco_70 Start: 24027, Stop: 24707, Start Num: 7

Candidate Starts for Phusco_70:

(Start: 6 @24012 has 33 MA's), (Start: 7 @24027 has 148 MA's), (12, 24201), (14, 24252), (20, 24399), (22, 24471), (23, 24480), (27, 24534), (28, 24555), (30, 24594), (32, 24645),

Gene: Pier_74 Start: 24036, Stop: 24716, Start Num: 7

Candidate Starts for Pier_74:

(Start: 6 @24021 has 33 MA's), (Start: 7 @24036 has 148 MA's), (12, 24210), (14, 24261), (20, 24408), (22, 24480), (23, 24489), (27, 24543), (28, 24564), (30, 24603), (32, 24654),

Gene: Pinkcreek_62 Start: 22237, Stop: 22920, Start Num: 7

Candidate Starts for Pinkcreek_62:

(Start: 7 @22237 has 148 MA's), (12, 22411), (14, 22462), (16, 22552), (22, 22681), (23, 22690), (25, 22708), (27, 22744), (28, 22765), (30, 22804), (32, 22855),

Gene: Pio_75 Start: 25410, Stop: 26108, Start Num: 6

Candidate Starts for Pio_75:

(Start: 6 @25410 has 33 MA's), (Start: 7 @25425 has 148 MA's), (12, 25599), (14, 25650), (20, 25797), (22, 25869), (23, 25878), (27, 25932), (28, 25953), (30, 25992), (32, 26043),

Gene: Pivoine_69 Start: 23202, Stop: 23897, Start Num: 6

Candidate Starts for Pivoine_69:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: Pleione_73 Start: 24274, Stop: 24957, Start Num: 7

Candidate Starts for Pleione_73:

(Start: 6 @24259 has 33 MA's), (Start: 7 @24274 has 148 MA's), (12, 24448), (14, 24499), (20, 24646), (22, 24718), (23, 24727), (27, 24781), (28, 24802), (30, 24841), (32, 24892),

Gene: Primadonna_66 Start: 23620, Stop: 24303, Start Num: 7

Candidate Starts for Primadonna_66:

(Start: 6 @23605 has 33 MA's), (Start: 7 @23620 has 148 MA's), (12, 23794), (14, 23845), (16, 23935), (20, 23992), (22, 24064), (23, 24073), (27, 24127), (28, 24148), (30, 24187), (32, 24238),

Gene: Pupusa_76 Start: 26425, Stop: 27108, Start Num: 7

Candidate Starts for Pupusa_76:

(Start: 6 @26410 has 33 MA's), (Start: 7 @26425 has 148 MA's), (12, 26599), (14, 26650), (16, 26740), (20, 26797), (22, 26869), (23, 26878), (27, 26932), (28, 26953), (30, 26992), (32, 27043),

Gene: PurduePete_70 Start: 23999, Stop: 24679, Start Num: 7

Candidate Starts for PurduePete_70:

(Start: 6 @23984 has 33 MA's), (Start: 7 @23999 has 148 MA's), (12, 24173), (14, 24224), (20, 24371), (22, 24443), (23, 24452), (27, 24506), (28, 24527), (30, 24566), (32, 24617),

Gene: QBert_65 Start: 24066, Stop: 24749, Start Num: 7

Candidate Starts for QBert_65:

(Start: 6 @24051 has 33 MA's), (Start: 7 @24066 has 148 MA's), (12, 24240), (14, 24291), (16, 24381), (20, 24438), (22, 24510), (23, 24519), (27, 24573), (28, 24594), (30, 24633), (32, 24684),

Gene: Quasimodo_70 Start: 24220, Stop: 24915, Start Num: 6

Candidate Starts for Quasimodo_70:

(Start: 6 @24220 has 33 MA's), (Start: 7 @24235 has 148 MA's), (12, 24409), (14, 24460), (20, 24607), (22, 24679), (23, 24688), (27, 24742), (28, 24763), (30, 24802), (32, 24853),

Gene: Rabinovich_69 Start: 24955, Stop: 25638, Start Num: 7

Candidate Starts for Rabinovich_69:

(Start: 7 @24955 has 148 MA's), (12, 25129), (14, 25180), (22, 25399), (23, 25408), (25, 25426), (27, 25462), (28, 25483), (30, 25522), (32, 25573),

Gene: Rahel_71 Start: 23586, Stop: 24269, Start Num: 7

Candidate Starts for Rahel_71:

(Start: 6 @23571 has 33 MA's), (Start: 7 @23586 has 148 MA's), (12, 23760), (14, 23811), (20, 23958), (22, 24030), (23, 24039), (27, 24093), (28, 24114), (30, 24153), (32, 24204),

Gene: Rizal_68 Start: 23192, Stop: 23875, Start Num: 7

Candidate Starts for Rizal_68:

(Start: 6 @23177 has 33 MA's), (Start: 7 @23192 has 148 MA's), (12, 23366), (14, 23417), (20, 23564), (22, 23636), (23, 23645), (27, 23699), (28, 23720), (30, 23759), (32, 23810),

Gene: RoMag_65 Start: 23197, Stop: 23877, Start Num: 7

Candidate Starts for RoMag_65:

(Start: 6 @23182 has 33 MA's), (Start: 7 @23197 has 148 MA's), (12, 23371), (14, 23422), (16, 23512), (20, 23569), (22, 23641), (23, 23650), (27, 23704), (28, 23725), (30, 23764), (32, 23815),

Gene: Rocha_68 Start: 23284, Stop: 23964, Start Num: 7

Candidate Starts for Rocha_68:

(Start: 6 @23269 has 33 MA's), (Start: 7 @23284 has 148 MA's), (12, 23458), (14, 23509), (20, 23656), (22, 23728), (23, 23737), (27, 23791), (28, 23812), (30, 23851), (32, 23902),

Gene: Ronan_65 Start: 21476, Stop: 22159, Start Num: 7

Candidate Starts for Ronan_65:

(Start: 7 @21476 has 148 MA's), (12, 21650), (14, 21701), (22, 21920), (23, 21929), (25, 21947), (27, 21983), (28, 22004), (30, 22043), (32, 22094),

Gene: Roots515_69 Start: 23676, Stop: 24356, Start Num: 7

Candidate Starts for Roots515_69:

(Start: 6 @23661 has 33 MA's), (Start: 7 @23676 has 148 MA's), (12, 23850), (14, 23901), (20, 24048), (22, 24120), (23, 24129), (27, 24183), (28, 24204), (30, 24243), (32, 24294),

Gene: SVoro_69 Start: 24254, Stop: 24952, Start Num: 6

Candidate Starts for SVoro_69:

(Start: 6 @24254 has 33 MA's), (Start: 7 @24269 has 148 MA's), (12, 24443), (14, 24494), (20, 24641), (22, 24713), (23, 24722), (27, 24776), (28, 24797), (30, 24836), (32, 24887),

Gene: Salacia_74 Start: 24329, Stop: 25009, Start Num: 7

Candidate Starts for Salacia_74:

(Start: 6 @24314 has 33 MA's), (Start: 7 @24329 has 148 MA's), (12, 24503), (14, 24554), (20, 24701), (22, 24773), (23, 24782), (27, 24836), (28, 24857), (30, 24896), (32, 24947),

Gene: Sauce_72 Start: 23875, Stop: 24558, Start Num: 7

Candidate Starts for Sauce_72:

(Start: 6 @23860 has 33 MA's), (Start: 7 @23875 has 148 MA's), (12, 24049), (14, 24100), (20, 24247), (22, 24319), (23, 24328), (27, 24382), (28, 24403), (30, 24442), (32, 24493),

Gene: ScottMcG_68 Start: 24053, Stop: 24736, Start Num: 7

Candidate Starts for ScottMcG_68:

(Start: 6 @24038 has 33 MA's), (Start: 7 @24053 has 148 MA's), (12, 24227), (14, 24278), (20, 24425), (22, 24497), (23, 24506), (27, 24560), (28, 24581), (30, 24620), (32, 24671),

Gene: Sebata_71 Start: 24804, Stop: 25487, Start Num: 7

Candidate Starts for Sebata_71:

(Start: 6 @24789 has 33 MA's), (Start: 7 @24804 has 148 MA's), (12, 24978), (14, 25029), (20, 25176), (22, 25248), (23, 25257), (27, 25311), (28, 25332), (30, 25371), (32, 25422),

Gene: Shaqnato_64 Start: 22399, Stop: 23082, Start Num: 7

Candidate Starts for Shaqnato_64:

(Start: 7 @22399 has 148 MA's), (12, 22573), (14, 22624), (22, 22843), (23, 22852), (25, 22870), (27, 22906), (28, 22927), (30, 22966), (32, 23017),

Gene: Shelob_73 Start: 25267, Stop: 25950, Start Num: 7

Candidate Starts for Shelob_73:

(Start: 6 @25252 has 33 MA's), (Start: 7 @25267 has 148 MA's), (12, 25441), (14, 25492), (20, 25639), (22, 25711), (23, 25720), (27, 25774), (28, 25795), (30, 25834), (32, 25885),

Gene: ShiaLabeouf_70 Start: 23654, Stop: 24334, Start Num: 7

Candidate Starts for ShiaLabeouf_70:

(Start: 6 @23639 has 33 MA's), (Start: 7 @23654 has 148 MA's), (12, 23828), (14, 23879), (20, 24026), (22, 24098), (23, 24107), (27, 24161), (28, 24182), (30, 24221), (32, 24272),

Gene: Shifa_62 Start: 22784, Stop: 23467, Start Num: 7

Candidate Starts for Shifa_62:

(Start: 7 @22784 has 148 MA's), (12, 22958), (14, 23009), (22, 23228), (23, 23237), (25, 23255), (27, 23291), (28, 23312), (30, 23351), (32, 23402),

Gene: Shnickers_70 Start: 23214, Stop: 23894, Start Num: 7

Candidate Starts for Shnickers_70:

(Start: 6 @23199 has 33 MA's), (Start: 7 @23214 has 148 MA's), (12, 23388), (14, 23439), (20, 23586), (22, 23658), (23, 23667), (27, 23721), (28, 23742), (30, 23781), (32, 23832),

Gene: Shrimp_71 Start: 24264, Stop: 24962, Start Num: 6

Candidate Starts for Shrimp_71:

(Start: 6 @24264 has 33 MA's), (Start: 7 @24279 has 148 MA's), (12, 24453), (14, 24504), (20, 24651), (22, 24723), (23, 24732), (27, 24786), (28, 24807), (30, 24846), (32, 24897),

Gene: SilverDipper_71 Start: 23217, Stop: 23897, Start Num: 7

Candidate Starts for SilverDipper_71:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: SmallFry_70 Start: 23198, Stop: 23893, Start Num: 6

Candidate Starts for SmallFry_70:

(Start: 6 @23198 has 33 MA's), (Start: 7 @23213 has 148 MA's), (12, 23387), (14, 23438), (20, 23585), (22, 23657), (23, 23666), (27, 23720), (28, 23741), (30, 23780), (32, 23831),

Gene: SoilZilla_66 Start: 23719, Stop: 24402, Start Num: 7

Candidate Starts for SoilZilla_66:

(Start: 6 @23704 has 33 MA's), (Start: 7 @23719 has 148 MA's), (12, 23893), (14, 23944), (20, 24091), (22, 24163), (23, 24172), (27, 24226), (28, 24247), (30, 24286), (32, 24337),

Gene: Spec_67 Start: 23357, Stop: 24040, Start Num: 7

Candidate Starts for Spec_67:

(Start: 6 @23342 has 33 MA's), (Start: 7 @23357 has 148 MA's), (12, 23531), (14, 23582), (20, 23729), (22, 23801), (23, 23810), (27, 23864), (28, 23885), (30, 23924), (32, 23975),

Gene: Specks_76 Start: 25750, Stop: 26430, Start Num: 7

Candidate Starts for Specks_76:

(Start: 6 @25735 has 33 MA's), (Start: 7 @25750 has 148 MA's), (12, 25924), (14, 25975), (20, 26122), (22, 26194), (23, 26203), (27, 26257), (28, 26278), (30, 26317), (32, 26368),

Gene: Sprinklers_67 Start: 23247, Stop: 23930, Start Num: 7

Candidate Starts for Sprinklers_67:

(Start: 6 @23232 has 33 MA's), (Start: 7 @23247 has 148 MA's), (12, 23421), (14, 23472), (20, 23619), (22, 23691), (23, 23700), (27, 23754), (28, 23775), (30, 23814), (32, 23865),

Gene: Spud_70 Start: 24590, Stop: 25273, Start Num: 7

Candidate Starts for Spud_70:

(Start: 6 @24575 has 33 MA's), (Start: 7 @24590 has 148 MA's), (12, 24764), (14, 24815), (20, 24962), (22, 25034), (23, 25043), (27, 25097), (28, 25118), (30, 25157), (32, 25208),

Gene: SrishMeg2525_70 Start: 23986, Stop: 24669, Start Num: 7

Candidate Starts for SrishMeg2525_70:

(Start: 6 @23971 has 33 MA's), (Start: 7 @23986 has 148 MA's), (12, 24160), (14, 24211), (20, 24358), (22, 24430), (23, 24439), (27, 24493), (28, 24514), (30, 24553), (32, 24604),

Gene: StephanieG_70 Start: 24654, Stop: 25334, Start Num: 7

Candidate Starts for StephanieG_70:

(Start: 6 @24639 has 33 MA's), (Start: 7 @24654 has 148 MA's), (12, 24828), (14, 24879), (20, 25026), (22, 25098), (23, 25107), (27, 25161), (28, 25182), (30, 25221), (32, 25272),

Gene: Stewart25555_164 Start: 113832, Stop: 114407, Start Num: 8

Candidate Starts for Stewart25555_164:

(Start: 8 @113832 has 2 MA's), (13, 113973), (15, 114018), (19, 114123), (24, 114201), (26, 114234), (31, 114342),

Gene: Stubby_65 Start: 23568, Stop: 24251, Start Num: 7

Candidate Starts for Stubby_65:

(Start: 7 @23568 has 148 MA's), (12, 23742), (14, 23793), (22, 24012), (23, 24021), (25, 24039), (27, 24075), (28, 24096), (30, 24135), (32, 24186),

Gene: StubbySaigey_72 Start: 22915, Stop: 23598, Start Num: 7

Candidate Starts for StubbySaigey_72:

(Start: 6 @22900 has 33 MA's), (Start: 7 @22915 has 148 MA's), (12, 23089), (14, 23140), (20, 23287), (22, 23359), (23, 23368), (27, 23422), (28, 23443), (30, 23482), (32, 23533),

Gene: Substance289_66 Start: 22687, Stop: 23367, Start Num: 7

Candidate Starts for Substance289_66:

(Start: 6 @22672 has 33 MA's), (Start: 7 @22687 has 148 MA's), (12, 22861), (14, 22912), (20, 23059), (22, 23131), (23, 23140), (27, 23194), (28, 23215), (30, 23254), (32, 23305),

Gene: Tainan_76 Start: 26057, Stop: 26740, Start Num: 7

Candidate Starts for Tainan_76:

(Start: 6 @26042 has 33 MA's), (Start: 7 @26057 has 148 MA's), (12, 26231), (14, 26282), (16, 26372), (20, 26429), (22, 26501), (23, 26510), (27, 26564), (28, 26585), (30, 26624), (32, 26675),

Gene: Teardrop_70 Start: 23059, Stop: 23754, Start Num: 6

Candidate Starts for Teardrop_70:

(Start: 6 @23059 has 33 MA's), (Start: 7 @23074 has 148 MA's), (12, 23248), (14, 23299), (20, 23446), (22, 23518), (23, 23527), (27, 23581), (28, 23602), (30, 23641), (32, 23692),

Gene: TinyTim_71 Start: 24275, Stop: 24958, Start Num: 7

Candidate Starts for TinyTim_71:

(Start: 6 @24260 has 33 MA's), (Start: 7 @24275 has 148 MA's), (12, 24449), (14, 24500), (20, 24647), (22, 24719), (23, 24728), (27, 24782), (28, 24803), (30, 24842), (32, 24893),

Gene: Tonenili_84 Start: 27515, Stop: 28195, Start Num: 7

Candidate Starts for Tonenili_84:

(Start: 6 @27500 has 33 MA's), (Start: 7 @27515 has 148 MA's), (12, 27689), (16, 27830), (22, 27959), (23, 27968), (27, 28022), (28, 28043), (30, 28082), (32, 28133),

Gene: Tortoise16_68 Start: 23706, Stop: 24401, Start Num: 6

Candidate Starts for Tortoise16_68:

(Start: 6 @23706 has 33 MA's), (Start: 7 @23721 has 148 MA's), (12, 23895), (14, 23946), (20, 24093), (22, 24165), (23, 24174), (27, 24228), (28, 24249), (30, 24288), (32, 24339),

Gene: Trinitium_66 Start: 22717, Stop: 23412, Start Num: 6

Candidate Starts for Trinitium_66:

(Start: 6 @22717 has 33 MA's), (Start: 7 @22732 has 148 MA's), (12, 22906), (14, 22957), (20, 23104), (22, 23176), (23, 23185), (27, 23239), (28, 23260), (30, 23299), (32, 23350),

Gene: Turret_65 Start: 22398, Stop: 23078, Start Num: 7

Candidate Starts for Turret_65:

(Start: 6 @22383 has 33 MA's), (Start: 7 @22398 has 148 MA's), (12, 22572), (14, 22623), (20, 22770), (22, 22842), (23, 22851), (27, 22905), (28, 22926), (30, 22965), (32, 23016),

Gene: Tyke_72 Start: 24625, Stop: 25305, Start Num: 7

Candidate Starts for Tyke_72:

(Start: 6 @24610 has 33 MA's), (Start: 7 @24625 has 148 MA's), (12, 24799), (14, 24850), (20, 24997), (22, 25069), (23, 25078), (27, 25132), (28, 25153), (30, 25192), (32, 25243),

Gene: ValleyTerrace_70 Start: 23202, Stop: 23897, Start Num: 6

Candidate Starts for ValleyTerrace_70:

(Start: 6 @23202 has 33 MA's), (Start: 7 @23217 has 148 MA's), (12, 23391), (14, 23442), (20, 23589), (22, 23661), (23, 23670), (27, 23724), (28, 23745), (30, 23784), (32, 23835),

Gene: Vortrix_84 Start: 27785, Stop: 28465, Start Num: 7

Candidate Starts for Vortrix_84:

(Start: 6 @27770 has 33 MA's), (Start: 7 @27785 has 148 MA's), (12, 27959), (16, 28100), (22, 28229), (23, 28238), (27, 28292), (28, 28313), (30, 28352), (32, 28403),

Gene: Wally_69 Start: 22815, Stop: 23513, Start Num: 6

Candidate Starts for Wally_69:

(Start: 6 @22815 has 33 MA's), (Start: 7 @22830 has 148 MA's), (12, 23004), (14, 23055), (20, 23202), (22, 23274), (23, 23283), (27, 23337), (28, 23358), (30, 23397), (32, 23448),

Gene: Willis_72 Start: 24170, Stop: 24853, Start Num: 7

Candidate Starts for Willis_72:

(Start: 6 @24155 has 33 MA's), (Start: 7 @24170 has 148 MA's), (12, 24344), (14, 24395), (20, 24542), (22, 24614), (23, 24623), (27, 24677), (28, 24698), (30, 24737), (32, 24788),

Gene: Yassified_67 Start: 23236, Stop: 23916, Start Num: 7

Candidate Starts for Yassified_67:

(Start: 7 @23236 has 148 MA's), (12, 23410), (14, 23461), (16, 23551), (22, 23680), (23, 23689), (28, 23764), (30, 23803), (32, 23854),

Gene: YemiJoy2021_71 Start: 23952, Stop: 24632, Start Num: 7

Candidate Starts for YemiJoy2021_71:

(Start: 6 @23937 has 33 MA's), (Start: 7 @23952 has 148 MA's), (12, 24126), (14, 24177), (20, 24324), (22, 24396), (23, 24405), (27, 24459), (28, 24480), (30, 24519), (32, 24570),

Gene: YoungMoneyMata_70 Start: 22953, Stop: 23648, Start Num: 6

Candidate Starts for YoungMoneyMata_70:

(Start: 6 @22953 has 33 MA's), (Start: 7 @22968 has 148 MA's), (12, 23142), (14, 23193), (20, 23340), (22, 23412), (23, 23421), (27, 23475), (28, 23496), (30, 23535), (32, 23586),

Gene: Yucca_70 Start: 24197, Stop: 24880, Start Num: 7

Candidate Starts for Yucca_70:

(Start: 6 @24182 has 33 MA's), (Start: 7 @24197 has 148 MA's), (12, 24371), (14, 24422), (20, 24569), (22, 24641), (23, 24650), (27, 24704), (28, 24725), (30, 24764), (32, 24815),

Gene: Yvonnetastic_179 Start: 90444, Stop: 89839, Start Num: 8

Candidate Starts for Yvonnetastic_179:

(4, 90549), (Start: 8 @90444 has 2 MA's), (9, 90396), (10, 90387), (11, 90381), (17, 90174), (18, 90171), (29, 89970), (33, 89859),

Gene: Zalkecks_72 Start: 23945, Stop: 24643, Start Num: 6

Candidate Starts for Zalkecks_72:

(Start: 6 @23945 has 33 MA's), (Start: 7 @23960 has 148 MA's), (12, 24134), (14, 24185), (20, 24332), (22, 24404), (23, 24413), (27, 24467), (28, 24488), (30, 24527), (32, 24578),

Gene: Zeenon_72 Start: 24262, Stop: 24945, Start Num: 7

Candidate Starts for Zeenon_72:

(Start: 6 @24247 has 33 MA's), (Start: 7 @24262 has 148 MA's), (12, 24436), (14, 24487), (20, 24634), (22, 24706), (23, 24715), (27, 24769), (28, 24790), (30, 24829), (32, 24880),

Gene: ZygoTaiga_70 Start: 24276, Stop: 24959, Start Num: 7

Candidate Starts for ZygoTaiga_70:

(Start: 6 @24261 has 33 MA's), (Start: 7 @24276 has 148 MA's), (12, 24450), (14, 24501), (20, 24648), (22, 24720), (23, 24729), (27, 24783), (28, 24804), (30, 24843), (32, 24894),