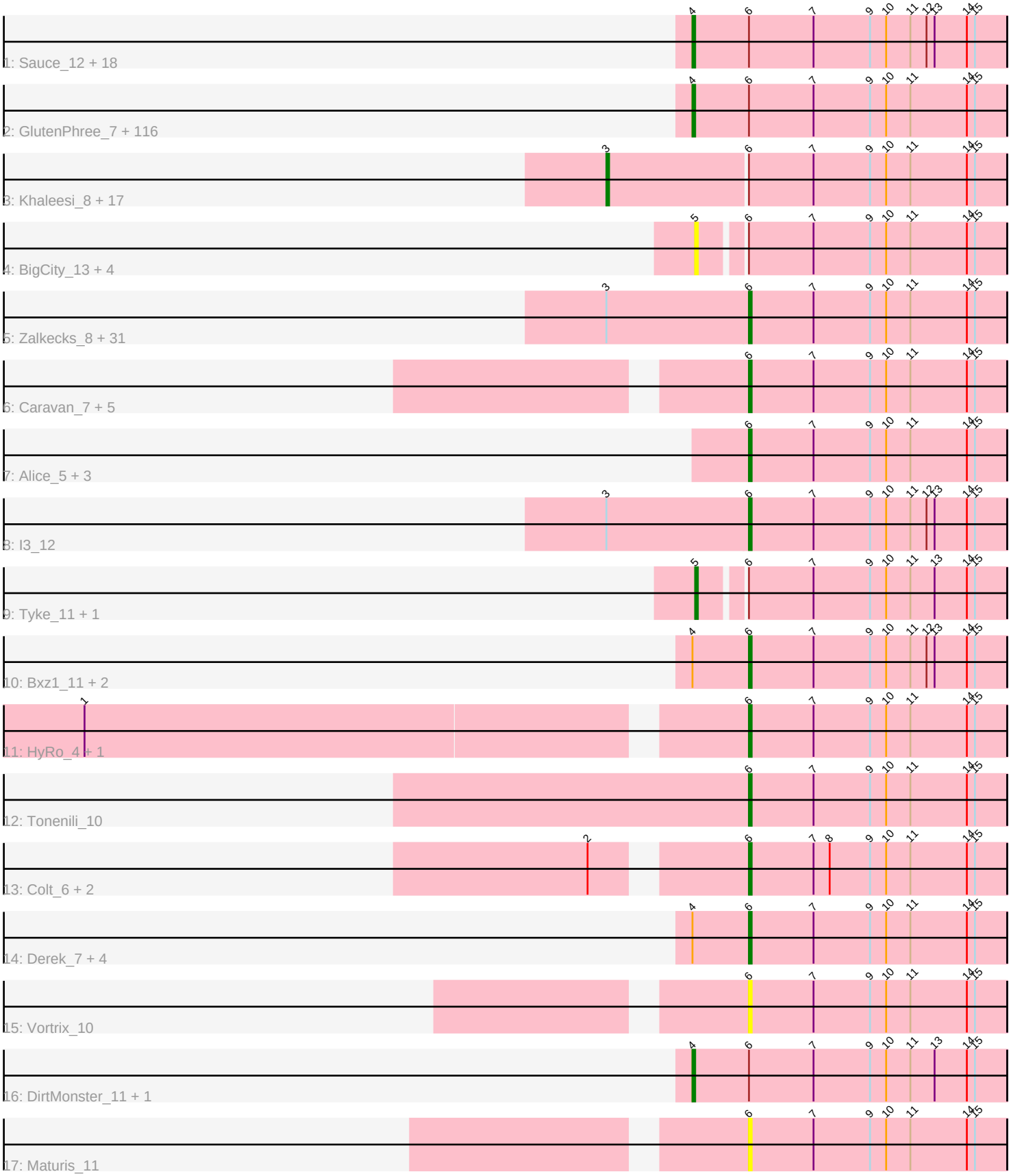
Pham 345376


1: Sauce_12 + 18
2: GlutenPhree_7 + 116
3: Khaleesi_8 + 17
4: BigCity_13 + 4
5: Zalkecks_8 + 31
6: Caravan_7 + 5
7: Alice_5 + 3
8: I3_12
9: Tyke_11 + 1
10: Bxz1_11 + 2
11: HyRo_4 + 1
12: Tonenili_10
13: Colt_6 + 2
14: Derek_7 + 4
15: Vortrix_10
16: DirtMonster_11 + 1
17: Maturis_11

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 345376 Report

This analysis was run 11/14/26 on database version 672.

Pham number 345376 has 222 members, 30 are drafts.

Phages represented in each track:
• Track 1 : Sauce_12, Drazdys_11, NuevoMundo_13, LolaVinca_11, Lethe_11, NoodleTree_11, SiwenD96_12, Primadonna_8, IkeLoa_8, Nidhogg_11, StephanieG_13, Naval22_12, MoMoMixon_11, Jezreel_11, Pio_12, Mangeria_12, QBert_8, RoMag_7, JulietS_8
• Track 2 : GlutenPhree_7, StubbySaigey_7, Duckfeet_7, FrayBell_14, Kboogie_7, Bangla1971_7, CindyLou_7, Breeniome_7, LRRHood_7, Jedediah_7, Janiyra_7, LordLeafolot_14, Matsumoto_7, Rizal_7, Jaygup_7, Babyland_7, Ading_7, Sebata_13, Ablatia_7, Concombre_11, Tainan_14, Quasimodo_7, Morizzled23_7, Flabslab_7, Demodog_10, BobaPhatt_7, Naija_7, BananaFence_7, Spec_7, CharlieB_6, Littleton_7, ErnieJ_7, Specks_14, ValleyTerrace_7, Guwapp_7, Turret_7, InigoMontoya_7, Phlegm_7, Napoleon13_7, Domi_7, BadAgartude_7, Bigswole_10, Kamryn_11, PharkleMinkus_14, McGee_7, Yassified_7, LinStu_13, ChickenPhender_7, Blackbrain_7, ET08_6, Halldule_7, Wally_7, ArcherS7_7, InterFolia_14, JustHall_7, Gabriel_7, Rocha_11, Phusco_7, Ngannou_7, ShiaLabeouf_7, YoungMoneyMata_7, Chargie21_7, Nappy_10, Substance289_6, Gamgam_7, Amataga_7, Chomp_7, JPickles_7, Momo_7, Trinitium_7, GoldenSnow_14, Belieber_6, EasyJones_7, Koguma_7, Pupusa_14, Maguvora_15, Tortoise16_6, Dietrick_6, LookingGlass_11, Lukilu_7, Jemmno_6, Fixie_6, Adlitam_7, Blackdragon_6, BackyardAgain_6, Basquiat_7, Catera_7, Yucca_7, Puhon_14, Astraea_13, Atlantean_7, Teardrop_7, JayJay_13, Willis_7, Latch_7, Audrick_7, Dessert_7, Sprinklers_7, Pier_14, Ghost_7, Fludd_7, Cactojaque_6, Grungle_7, Melpomini_7, Rahel_7, BeanWater_6, ChaylaJr_7, Pivoine_7, Patter_7, SmallFry_7, Shnickers_7, LifeSavor_7, SilverDipper_7, Essence_7, Dandelion_14, Labradorite_7, Shaqnato_7
• Track 3 : Khaleesi_8, Shelob_8, TinyTim_8, McWolfish_8, Norm_8, Darko_7, Bipolarisk_8, OrediggerDelux_8, Loanshark_8, FoxtrotP1_8, Bonray_8, Jessibeth14_8, Ewok_8, Fongie_8, DrPhinkDaddy_8, SoilZilla_7, Iota_7, Delilah_8
• Track 4 : BigCity_13, Grasshills_13, EggyFarm_13, Lunareta_10, Montpel_10
• Track 5 : Zalkecks_8, Roots515_8, MikeLiesIn_8, YemiJoy2021_8, Shrimp_8, Erdmann_8, FudgeTart_8, Burrough_8, Asterius_8, SVoro_8, NedWong_8, ParkTD_8, Maby2021_8, Ava3_8, Issimir_8, Bowman_8, Capablanca_8, SrishMeg2525_8, JigglyPuff_12, Pleione_8, Salacia_8, Megamind_8, Lee7_8, Daffodil_8, Bread_8, ZygoTaiga_8, EmToTheThree_8, Cleatunium_8, Izajani_8, Zeenon_9, Gizmo_8, PurduePete_8
• Track 6 : Caravan_7, Moby_5, Delylah_7, DeejaClivia_5, Stubby_5, Moiqah_5
• Track 7 : Alice_5, Pinkcreek_4, Bezza_4, Rabinovish_6
• Track 8 : I3_12

• Track 9 : Tyke_11, DTDevon_11
• Track 10 : Bxz1_11, Mikro_11, Spud_12
• Track 11 : HyRo_4, Shifa_4
• Track 12 : Tonenili_10
• Track 13 : Colt_6, Blubba_6, Cane17_6
• Track 14 : Derek_7, ScottMcG_7, Ronan_7, Phox_7, Cali_7
• Track 15 : Vortrix_10
• Track 16 : DirtMonster_11, EmmaElysia_7
• Track 17 : Maturis_11

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

The start number called the most often in the published annotations is 4, it was called in 121 of the 192 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ablatia_7, Ading_7, Adlitam_7, Amataga_7, ArcherS7_7, Astraea_13, Atlantean_7, Audrick_7, Babyland_7, BackyardAgain_6, BadAgartude_7, BananaFence_7, Bangla1971_7, Basquiat_7, BeanWater_6, Belieber_6, Bigswole_10, Blackbrain_7, Blackdragon_6, BobaPhatt_7, Breeniome_7, Cactojaque_6, Catera_7, Chargie21_7, CharlieB_6, ChaylaJr_7, ChickenPhender_7, Chomp_7, CindyLou_7, Concombre_11, Dandelion_14, Demodog_10, Dessert_7, Dietrick_6, DirtMonster_11, Domi_7, Drazdys_11, Duckfeet_7, ET08_6, EasyJones_7, EmmaElysia_7, ErnieJ_7, Essence_7, Fixie_6, Flabslab_7, Fludd_7, FrayBell_14, Gabriel_7, Gamgam_7, Ghost_7, GlutenPhree_7, GoldenSnow_14, Grungle_7, Guwapp_7, Halldule_7, IkeLoa_8, InigoMontoya_7, InterFolia_14, JPickles_7, Janiyra_7, JayJay_13, Jaygup_7, Jedediah_7, Jemmno_6, Jezreel_11, JulietS_8, JustHall_7, Kamryn_11, Kboogie_7, Koguma_7, LRRHood_7, Labradorite_7, Latch_7, Lethe_11, LifeSavor_7, LinStu_13, Littleton_7, LolaVinca_11, LookingGlass_11, LordLeafolot_14, Lukilu_7, Maguvora_15, Mangeria_12, Matsumoto_7, McGee_7, Melpomini_7, MoMoMixon_11, Momo_7, Morizzled23_7, Naija_7, Napoleon13_7, Nappy_10, Naval22_12, Ngannou_7, Nidhogg_11, NoodleTree_11, NuevoMundo_13, Patter_7, PharkleMinkus_14, Phlegm_7, Phusco_7, Pier_14, Pio_12, Pivoine_7, Primadonna_8, Puhon_14, Pupusa_14, QBert_8, Quasimodo_7, Rahel_7, Rizal_7, RoMag_7, Rocha_11, Sauce_12, Sebata_13, Shaqnato_7, ShiaLabeouf_7, Shnickers_7, SilverDipper_7, SiwenD96_12, SmallFry_7, Spec_7, Specks_14, Sprinklers_7, StephanieG_13, StubbySaigey_7, Substance289_6, Tainan_14, Teardrop_7, Tortoise16_6, Trinitium_7, Turret_7, ValleyTerrace_7, Wally_7, Willis_7, Yassified_7, YoungMoneyMata_7, Yucca_7,

Genes that have the "Most Annotated" start but do not call it:
• Bxz1_11, Cali_7, Derek_7, Mikro_11, Phox_7, Ronan_7, ScottMcG_7, Spud_12,

Genes that do not have the "Most Annotated" start:
• Alice_5, Asterius_8, Ava3_8, Bezza_4, BigCity_13, Bipolarisk_8, Blubba_6, Bonray_8, Bowman_8, Bread_8, Burrough_8, Cane17_6, Capablanca_8, Caravan_7, Cleatunium_8, Colt_6, DTDevon_11, Daffodil_8, Darko_7, DeejaClivia_5, Delilah_8, Delylah_7, DrPhinkDaddy_8, EggyFarm_13, EmToTheThree_8, Erdmann_8, Ewok_8, Fongie_8, FoxtrotP1_8, FudgeTart_8, Gizmo_8, Grasshills_13, HyRo_4, I3_12, Iota_7, Issimir_8, Izajani_8, Jessibeth14_8, JigglyPuff_12, Khaleesi_8,

Lee7_8, Loanshark_8, Lunareta_10, Maby2021_8, Maturis_11, McWolfish_8, Megamind_8, MikeLiesIn_8, Moby_5, Moiqah_5, Montpel_10, NedWong_8, Norm_8, OrediggerDelux_8, ParkTD_8, Pinkcreek_4, Pleione_8, PurduePete_8, Rabinovish_6, Roots515_8, SVoro_8, Salacia_8, Shelob_8, Shifa_4, Shrimp_8, SoilZilla_7, SrishMeg2525_8, Stubby_5, TinyTim_8, Tonenili_10, Tyke_11, Vortrix_10, YemiJoy2021_8, Zalkecks_8, Zeenon_9, ZygoTaiga_8,

Summary by start number:

Start 3:
• Found in 51 of 222 (23.0%) of genes in pham
• Manual Annotations of this start: 16 of 192
• Called 35.3% of time when present
• Phage (with cluster) where this start called: Bipolarisk_8 (C1), Bonray_8 (C1), Darko_7 (C1), Delilah_8 (C1), DrPhinkDaddy_8 (C1), Ewok_8 (C1), Fongie_8 (C1), FoxtrotP1_8 (C1), Iota_7 (C1), Jessibeth14_8 (C1), Khaleesi_8 (C1), Loanshark_8 (C1), McWolfish_8 (C1), Norm_8 (C1), OrediggerDelux_8 (C1), Shelob_8 (C1), SoilZilla_7 (C1), TinyTim_8 (C1),

Start 4:
• Found in 146 of 222 (65.8%) of genes in pham
• Manual Annotations of this start: 121 of 192
• Called 94.5% of time when present
• Phage (with cluster) where this start called: Ablatia_7 (C1), Ading_7 (C1), Adlitam_7 (C1), Amataga_7 (C1), ArcherS7_7 (C1), Astraea_13 (C1), Atlantean_7 (C1), Audrick_7 (C1), Babyland_7 (C1), BackyardAgain_6 (C1), BadAgartude_7 (C1), BananaFence_7 (C1), Bangla1971_7 (C1), Basquiat_7 (C1), BeanWater_6 (C1), Belieber_6 (C1), Bigswole_10 (C1), Blackbrain_7 (C1), Blackdragon_6 (C1), BobaPhatt_7 (C1), Breeniome_7 (C1), Cactojaque_6 (C1), Catera_7 (C1), Chargie21_7 (C1), CharlieB_6 (C1), ChaylaJr_7 (C1), ChickenPhender_7 (C1), Chomp_7 (C1), CindyLou_7 (C1), Concombre_11 (C1), Dandelion_14 (C1), Demodog_10 (C1), Dessert_7 (C1), Dietrick_6 (C1), DirtMonster_11 (C1), Domi_7 (C1), Drazdys_11 (C1), Duckfeet_7 (C1), ET08_6 (C1), EasyJones_7 (C1), EmmaElysia_7 (C1), ErnieJ_7 (C1), Essence_7 (C1), Fixie_6 (C1), Flabslab_7 (C1), Fludd_7 (C1), FrayBell_14 (C1), Gabriel_7 (C1), Gamgam_7 (C1), Ghost_7 (C1), GlutenPhree_7 (C1), GoldenSnow_14 (C1), Grungle_7 (C1), Guwapp_7 (C1), Halldule_7 (C1), IkeLoa_8 (C1), InigoMontoya_7 (C1), InterFolia_14 (C1), JPickles_7 (C1), Janiyra_7 (C1), JayJay_13 (C1), Jaygup_7 (C1), Jedediah_7 (C1), Jemmno_6 (C1), Jezreel_11 (C1), JulietS_8 (C1), JustHall_7 (C1), Kamryn_11 (C1), Kboogie_7 (C1), Koguma_7 (C1), LRRHood_7 (C1), Labradorite_7 (C1), Latch_7 (C1), Lethe_11 (C1), LifeSavor_7 (C1), LinStu_13 (C1), Littleton_7 (C1), LolaVinca_11 (C1), LookingGlass_11 (C1), LordLeafolot_14 (C1), Lukilu_7 (C1), Maguvora_15 (C1), Mangeria_12 (C1), Matsumoto_7 (C1), McGee_7 (C1), Melpomini_7 (C1), MoMoMixon_11 (C1), Momo_7 (C1), Morizzled23_7 (C1), Naija_7 (C1), Napoleon13_7 (C1), Nappy_10 (C1), Naval22_12 (C1), Ngannou_7 (C1), Nidhogg_11 (C1), NoodleTree_11 (C1), NuevoMundo_13 (C1), Patter_7 (C1), PharkleMinkus_14 (C1), Phlegm_7 (C1), Phusco_7 (C1), Pier_14 (C1), Pio_12 (C1), Pivoine_7 (C1), Primadonna_8 (C1), Puhon_14 (C1), Pupusa_14 (C1), QBert_8 (C1), Quasimodo_7 (C1), Rahel_7 (C1), Rizal_7 (C1), RoMag_7 (C1), Rocha_11 (C1), Sauce_12 (C1), Sebata_13 (C1), Shaqnato_7 (C1), ShiaLabeouf_7 (C1), Shnickers_7 (C1), SilverDipper_7 (C1), SiwenD96_12 (C1), SmallFry_7 (C1), Spec_7 (C1), Specks_14 (C1), Sprinklers_7 (C1), StephanieG_13 (C1), StubbySaigey_7 (C1), Substance289_6 (C1), Tainan_14 (C1), Teardrop_7 (C1), Tortoise16_6 (C1),

Trinitium_7 (C1), Turret_7 (C1), ValleyTerrace_7 (C1), Wally_7 (C1), Willis_7 (C1), Yassified_7 (C1), YoungMoneyMata_7 (C1), Yucca_7 (C1),

Start 5:
• Found in 7 of 222 (3.2%) of genes in pham
• Manual Annotations of this start: 2 of 192
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BigCity_13 (C1), DTDevon_11 (C1), EggyFarm_13 (C1), Grasshills_13 (C1), Lunareta_10 (C1), Montpel_10 (C1), Tyke_11 (C1),

Start 6:
• Found in 222 of 222 (100.0%) of genes in pham
• Manual Annotations of this start: 53 of 192
• Called 26.6% of time when present
• Phage (with cluster) where this start called: Alice_5 (C1), Asterius_8 (C1), Ava3_8 (C1), Bezza_4 (C1), Blubba_6 (C1), Bowman_8 (C1), Bread_8 (C1), Burrough_8 (C1), Bxz1_11 (C1), Cali_7 (C1), Cane17_6 (C1), Capablanca_8 (C1), Caravan_7 (C1), Cleatunium_8 (C1), Colt_6 (C1), Daffodil_8 (C1), DeejaClivia_5 (C1), Delylah_7 (C1), Derek_7 (C1), EmToTheThree_8 (C1), Erdmann_8 (C1), FudgeTart_8 (C1), Gizmo_8 (C1), HyRo_4 (C1), I3_12 (C1), Issimir_8 (C1), Izajani_8 (C1), JigglyPuff_12 (C1), Lee7_8 (C1), Maby2021_8 (C1), Maturis_11 (C1), Megamind_8 (C1), MikeLiesIn_8 (C1), Mikro_11 (C1), Moby_5 (C1), Moiqah_5 (C1), NedWong_8 (C1), ParkTD_8 (C1), Phox_7 (C1), Pinkcreek_4 (C1), Pleione_8 (C1), PurduePete_8 (C1), Rabinovish_6 (C1), Ronan_7 (C1), Roots515_8 (C1), SVoro_8 (C1), Salacia_8 (C1), ScottMcG_7 (C1), Shifa_4 (C1), Shrimp_8 (C1), Spud_12 (C1), SrishMeg2525_8 (C1), Stubby_5 (C1), Tonenili_10 (C1), Vortrix_10 (C1), YemiJoy2021_8 (C1), Zalkecks_8 (C1), Zeenon_9 (C1), ZygoTaiga_8 (C1),

Summary by clusters:

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:
•Start number 3 was manually annotated 16 times for cluster C1.
•Start number 4 was manually annotated 121 times for cluster C1.
•Start number 5 was manually annotated 2 times for cluster C1.
•Start number 6 was manually annotated 53 times for cluster C1.

Gene Information:

Gene: Ablatia_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Ablatia_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Ading_7 Start: 2010, Stop: 2126, Start Num: 4
Candidate Starts for Ading_7:
(Start: 4 @2010 has 121 MA's), (Start: 6 @2031 has 53 MA's), (7, 2055), (9, 2076), (10, 2082), (11, 2091), (14, 2112), (15, 2115),

Gene: Adlitam_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Adlitam_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Alice_5 Start: 2466, Stop: 2561, Start Num: 6
Candidate Starts for Alice_5:
(Start: 6 @2466 has 53 MA's), (7, 2490), (9, 2511), (10, 2517), (11, 2526), (14, 2547), (15, 2550),

Gene: Amataga_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Amataga_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: ArcherS7_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for ArcherS7_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Asterius_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Asterius_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Astraea_13 Start: 3821, Stop: 3937, Start Num: 4
Candidate Starts for Astraea_13:
(Start: 4 @3821 has 121 MA's), (Start: 6 @3842 has 53 MA's), (7, 3866), (9, 3887), (10, 3893), (11, 3902), (14, 3923), (15, 3926),

Gene: Atlantean_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Atlantean_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Audrick_7 Start: 2010, Stop: 2126, Start Num: 4
Candidate Starts for Audrick_7:
(Start: 4 @2010 has 121 MA's), (Start: 6 @2031 has 53 MA's), (7, 2055), (9, 2076), (10, 2082), (11, 2091), (14, 2112), (15, 2115),

Gene: Ava3_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Ava3_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Babyland_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Babyland_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: BackyardAgain_6 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for BackyardAgain_6:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: BadAgartude_7 Start: 2239, Stop: 2355, Start Num: 4
Candidate Starts for BadAgartude_7:
(Start: 4 @2239 has 121 MA's), (Start: 6 @2260 has 53 MA's), (7, 2284), (9, 2305), (10, 2311), (11, 2320), (14, 2341), (15, 2344),

Gene: BananaFence_7 Start: 3032, Stop: 3148, Start Num: 4
Candidate Starts for BananaFence_7:
(Start: 4 @3032 has 121 MA's), (Start: 6 @3053 has 53 MA's), (7, 3077), (9, 3098), (10, 3104), (11, 3113), (14, 3134), (15, 3137),

Gene: Bangla1971_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Bangla1971_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Basquiat_7 Start: 2010, Stop: 2126, Start Num: 4
Candidate Starts for Basquiat_7:
(Start: 4 @2010 has 121 MA's), (Start: 6 @2031 has 53 MA's), (7, 2055), (9, 2076), (10, 2082), (11, 2091), (14, 2112), (15, 2115),

Gene: BeanWater_6 Start: 3046, Stop: 3162, Start Num: 4
Candidate Starts for BeanWater_6:
(Start: 4 @3046 has 121 MA's), (Start: 6 @3067 has 53 MA's), (7, 3091), (9, 3112), (10, 3118), (11, 3127), (14, 3148), (15, 3151),

Gene: Belieber_6 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Belieber_6:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Bezza_4 Start: 2466, Stop: 2561, Start Num: 6
Candidate Starts for Bezza_4:
(Start: 6 @2466 has 53 MA's), (7, 2490), (9, 2511), (10, 2517), (11, 2526), (14, 2547), (15, 2550),

Gene: BigCity_13 Start: 4838, Stop: 4948, Start Num: 5
Candidate Starts for BigCity_13:
(Start: 5 @4838 has 2 MA's), (Start: 6 @4853 has 53 MA's), (7, 4877), (9, 4898), (10, 4904), (11, 4913), (14, 4934), (15, 4937),

Gene: Bigswole_10 Start: 3413, Stop: 3529, Start Num: 4
Candidate Starts for Bigswole_10:
(Start: 4 @3413 has 121 MA's), (Start: 6 @3434 has 53 MA's), (7, 3458), (9, 3479), (10, 3485), (11, 3494), (14, 3515), (15, 3518),

Gene: Bipolarisk_8 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for Bipolarisk_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Blackbrain_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Blackbrain_7:

(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Blackdragon_6 Start: 2068, Stop: 2184, Start Num: 4
Candidate Starts for Blackdragon_6:
(Start: 4 @2068 has 121 MA's), (Start: 6 @2089 has 53 MA's), (7, 2113), (9, 2134), (10, 2140), (11, 2149), (14, 2170), (15, 2173),

Gene: Blubba_6 Start: 2831, Stop: 2926, Start Num: 6
Candidate Starts for Blubba_6:
(2, 2783), (Start: 6 @2831 has 53 MA's), (7, 2855), (8, 2861), (9, 2876), (10, 2882), (11, 2891), (14, 2912), (15, 2915),

Gene: BobaPhatt_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for BobaPhatt_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Bonray_8 Start: 3074, Stop: 3220, Start Num: 3
Candidate Starts for Bonray_8:
(Start: 3 @3074 has 16 MA's), (Start: 6 @3125 has 53 MA's), (7, 3149), (9, 3170), (10, 3176), (11, 3185), (14, 3206), (15, 3209),

Gene: Bowman_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Bowman_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Bread_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Bread_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Breeniome_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Breeniome_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Burrough_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Burrough_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Bxz1_11 Start: 3532, Stop: 3627, Start Num: 6
Candidate Starts for Bxz1_11:
(Start: 4 @3511 has 121 MA's), (Start: 6 @3532 has 53 MA's), (7, 3556), (9, 3577), (10, 3583), (11, 3592), (12, 3598), (13, 3601), (14, 3613), (15, 3616),

Gene: Cactojaque_6 Start: 1961, Stop: 2077, Start Num: 4
Candidate Starts for Cactojaque_6:
(Start: 4 @1961 has 121 MA's), (Start: 6 @1982 has 53 MA's), (7, 2006), (9, 2027), (10, 2033), (11, 2042), (14, 2063), (15, 2066),

Gene: Cali_7 Start: 3224, Stop: 3319, Start Num: 6
Candidate Starts for Cali_7:
(Start: 4 @3203 has 121 MA's), (Start: 6 @3224 has 53 MA's), (7, 3248), (9, 3269), (10, 3275), (11, 3284), (14, 3305), (15, 3308),

Gene: Cane17_6 Start: 2831, Stop: 2926, Start Num: 6
Candidate Starts for Cane17_6:
(2, 2783), (Start: 6 @2831 has 53 MA's), (7, 2855), (8, 2861), (9, 2876), (10, 2882), (11, 2891), (14, 2912), (15, 2915),

Gene: Capablanca_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Capablanca_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Caravan_7 Start: 1984, Stop: 2079, Start Num: 6
Candidate Starts for Caravan_7:
(Start: 6 @1984 has 53 MA's), (7, 2008), (9, 2029), (10, 2035), (11, 2044), (14, 2065), (15, 2068),

Gene: Catera_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Catera_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Chargie21_7 Start: 2010, Stop: 2126, Start Num: 4
Candidate Starts for Chargie21_7:
(Start: 4 @2010 has 121 MA's), (Start: 6 @2031 has 53 MA's), (7, 2055), (9, 2076), (10, 2082), (11, 2091), (14, 2112), (15, 2115),

Gene: CharlieB_6 Start: 2064, Stop: 2180, Start Num: 4
Candidate Starts for CharlieB_6:
(Start: 4 @2064 has 121 MA's), (Start: 6 @2085 has 53 MA's), (7, 2109), (9, 2130), (10, 2136), (11, 2145), (14, 2166), (15, 2169),

Gene: ChaylaJr_7 Start: 2052, Stop: 2168, Start Num: 4
Candidate Starts for ChaylaJr_7:
(Start: 4 @2052 has 121 MA's), (Start: 6 @2073 has 53 MA's), (7, 2097), (9, 2118), (10, 2124), (11, 2133), (14, 2154), (15, 2157),

Gene: ChickenPhender_7 Start: 2010, Stop: 2126, Start Num: 4
Candidate Starts for ChickenPhender_7:
(Start: 4 @2010 has 121 MA's), (Start: 6 @2031 has 53 MA's), (7, 2055), (9, 2076), (10, 2082), (11, 2091), (14, 2112), (15, 2115),

Gene: Chomp_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Chomp_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: CindyLou_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for CindyLou_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Cleatunium_8 Start: 3130, Stop: 3225, Start Num: 6
Candidate Starts for Cleatunium_8:
(Start: 3 @3079 has 16 MA's), (Start: 6 @3130 has 53 MA's), (7, 3154), (9, 3175), (10, 3181), (11, 3190), (14, 3211), (15, 3214),

Gene: Colt_6 Start: 2837, Stop: 2932, Start Num: 6
Candidate Starts for Colt_6:
(2, 2789), (Start: 6 @2837 has 53 MA's), (7, 2861), (8, 2867), (9, 2882), (10, 2888), (11, 2897), (14, 2918), (15, 2921),

Gene: Concombre_11 Start: 3490, Stop: 3606, Start Num: 4
Candidate Starts for Concombre_11:
(Start: 4 @3490 has 121 MA's), (Start: 6 @3511 has 53 MA's), (7, 3535), (9, 3556), (10, 3562), (11, 3571), (14, 3592), (15, 3595),

Gene: DTDevon_11 Start: 3382, Stop: 3492, Start Num: 5
Candidate Starts for DTDevon_11:
(Start: 5 @3382 has 2 MA's), (Start: 6 @3397 has 53 MA's), (7, 3421), (9, 3442), (10, 3448), (11, 3457), (13, 3466), (14, 3478), (15, 3481),

Gene: Daffodil_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Daffodil_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Dandelion_14 Start: 4490, Stop: 4606, Start Num: 4
Candidate Starts for Dandelion_14:
(Start: 4 @4490 has 121 MA's), (Start: 6 @4511 has 53 MA's), (7, 4535), (9, 4556), (10, 4562), (11, 4571), (14, 4592), (15, 4595),

Gene: Darko_7 Start: 2971, Stop: 3117, Start Num: 3
Candidate Starts for Darko_7:
(Start: 3 @2971 has 16 MA's), (Start: 6 @3022 has 53 MA's), (7, 3046), (9, 3067), (10, 3073), (11, 3082), (14, 3103), (15, 3106),

Gene: DeejaClivia_5 Start: 1483, Stop: 1578, Start Num: 6
Candidate Starts for DeejaClivia_5:
(Start: 6 @1483 has 53 MA's), (7, 1507), (9, 1528), (10, 1534), (11, 1543), (14, 1564), (15, 1567),

Gene: Delilah_8 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for Delilah_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Delylah_7 Start: 1984, Stop: 2079, Start Num: 6
Candidate Starts for Delylah_7:
(Start: 6 @1984 has 53 MA's), (7, 2008), (9, 2029), (10, 2035), (11, 2044), (14, 2065), (15, 2068),

Gene: Demodog_10 Start: 3490, Stop: 3606, Start Num: 4
Candidate Starts for Demodog_10:
(Start: 4 @3490 has 121 MA's), (Start: 6 @3511 has 53 MA's), (7, 3535), (9, 3556), (10, 3562), (11, 3571), (14, 3592), (15, 3595),

Gene: Derek_7 Start: 2048, Stop: 2143, Start Num: 6
Candidate Starts for Derek_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Dessert_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Dessert_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Dietrick_6 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Dietrick_6:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: DirtMonster_11 Start: 4732, Stop: 4848, Start Num: 4
Candidate Starts for DirtMonster_11:
(Start: 4 @4732 has 121 MA's), (Start: 6 @4753 has 53 MA's), (7, 4777), (9, 4798), (10, 4804), (11, 4813), (13, 4822), (14, 4834), (15, 4837),

Gene: Domi_7 Start: 3258, Stop: 3374, Start Num: 4
Candidate Starts for Domi_7:
(Start: 4 @3258 has 121 MA's), (Start: 6 @3279 has 53 MA's), (7, 3303), (9, 3324), (10, 3330), (11, 3339), (14, 3360), (15, 3363),

Gene: DrPhinkDaddy_8 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for DrPhinkDaddy_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Drazdys_11 Start: 3605, Stop: 3721, Start Num: 4
Candidate Starts for Drazdys_11:
(Start: 4 @3605 has 121 MA's), (Start: 6 @3626 has 53 MA's), (7, 3650), (9, 3671), (10, 3677), (11, 3686), (12, 3692), (13, 3695), (14, 3707), (15, 3710),

Gene: Duckfeet_7 Start: 2201, Stop: 2317, Start Num: 4
Candidate Starts for Duckfeet_7:
(Start: 4 @2201 has 121 MA's), (Start: 6 @2222 has 53 MA's), (7, 2246), (9, 2267), (10, 2273), (11, 2282), (14, 2303), (15, 2306),

Gene: ET08_6 Start: 3052, Stop: 3168, Start Num: 4
Candidate Starts for ET08_6:
(Start: 4 @3052 has 121 MA's), (Start: 6 @3073 has 53 MA's), (7, 3097), (9, 3118), (10, 3124), (11, 3133), (14, 3154), (15, 3157),

Gene: EasyJones_7 Start: 2010, Stop: 2126, Start Num: 4
Candidate Starts for EasyJones_7:
(Start: 4 @2010 has 121 MA's), (Start: 6 @2031 has 53 MA's), (7, 2055), (9, 2076), (10, 2082), (11, 2091), (14, 2112), (15, 2115),

Gene: EggyFarm_13 Start: 4838, Stop: 4948, Start Num: 5
Candidate Starts for EggyFarm_13:

(Start: 5 @4838 has 2 MA's), (Start: 6 @4853 has 53 MA's), (7, 4877), (9, 4898), (10, 4904), (11, 4913), (14, 4934), (15, 4937),

Gene: EmToTheThree_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for EmToTheThree_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: EmmaElysia_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for EmmaElysia_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (13, 2117), (14, 2129), (15, 2132),

Gene: Erdmann_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Erdmann_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: ErnieJ_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for ErnieJ_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Essence_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Essence_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Ewok_8 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for Ewok_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Fixie_6 Start: 2010, Stop: 2126, Start Num: 4
Candidate Starts for Fixie_6:
(Start: 4 @2010 has 121 MA's), (Start: 6 @2031 has 53 MA's), (7, 2055), (9, 2076), (10, 2082), (11, 2091), (14, 2112), (15, 2115),

Gene: Flabslab_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Flabslab_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Fludd_7 Start: 2013, Stop: 2129, Start Num: 4
Candidate Starts for Fludd_7:
(Start: 4 @2013 has 121 MA's), (Start: 6 @2034 has 53 MA's), (7, 2058), (9, 2079), (10, 2085), (11, 2094), (14, 2115), (15, 2118),

Gene: Fongie_8 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for Fongie_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: FoxtrotP1_8 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for FoxtrotP1_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: FrayBell_14 Start: 4312, Stop: 4428, Start Num: 4
Candidate Starts for FrayBell_14:
(Start: 4 @4312 has 121 MA's), (Start: 6 @4333 has 53 MA's), (7, 4357), (9, 4378), (10, 4384), (11, 4393), (14, 4414), (15, 4417),

Gene: FudgeTart_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for FudgeTart_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Gabriel_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Gabriel_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Gamgam_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Gamgam_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Ghost_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Ghost_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Gizmo_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Gizmo_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: GlutenPhree_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for GlutenPhree_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: GoldenSnow_14 Start: 4311, Stop: 4427, Start Num: 4
Candidate Starts for GoldenSnow_14:
(Start: 4 @4311 has 121 MA's), (Start: 6 @4332 has 53 MA's), (7, 4356), (9, 4377), (10, 4383), (11, 4392), (14, 4413), (15, 4416),

Gene: Grasshills_13 Start: 4838, Stop: 4948, Start Num: 5
Candidate Starts for Grasshills_13:
(Start: 5 @4838 has 2 MA's), (Start: 6 @4853 has 53 MA's), (7, 4877), (9, 4898), (10, 4904), (11, 4913), (14, 4934), (15, 4937),

Gene: Grungle_7 Start: 2222, Stop: 2338, Start Num: 4
Candidate Starts for Grungle_7:

(Start: 4 @2222 has 121 MA's), (Start: 6 @2243 has 53 MA's), (7, 2267), (9, 2288), (10, 2294), (11, 2303), (14, 2324), (15, 2327),

Gene: Guwapp_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Guwapp_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Halldule_7 Start: 2218, Stop: 2334, Start Num: 4
Candidate Starts for Halldule_7:
(Start: 4 @2218 has 121 MA's), (Start: 6 @2239 has 53 MA's), (7, 2263), (9, 2284), (10, 2290), (11, 2299), (14, 2320), (15, 2323),

Gene: HyRo_4 Start: 2383, Stop: 2478, Start Num: 6
Candidate Starts for HyRo_4:
(1, 2149), (Start: 6 @2383 has 53 MA's), (7, 2407), (9, 2428), (10, 2434), (11, 2443), (14, 2464), (15, 2467),

Gene: I3_12 Start: 4209, Stop: 4304, Start Num: 6
Candidate Starts for I3_12:
(Start: 3 @4158 has 16 MA's), (Start: 6 @4209 has 53 MA's), (7, 4233), (9, 4254), (10, 4260), (11, 4269), (12, 4275), (13, 4278), (14, 4290), (15, 4293),

Gene: IkeLoa_8 Start: 3269, Stop: 3385, Start Num: 4
Candidate Starts for IkeLoa_8:
(Start: 4 @3269 has 121 MA's), (Start: 6 @3290 has 53 MA's), (7, 3314), (9, 3335), (10, 3341), (11, 3350), (12, 3356), (13, 3359), (14, 3371), (15, 3374),

Gene: InigoMontoya_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for InigoMontoya_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: InterFolia_14 Start: 4311, Stop: 4427, Start Num: 4
Candidate Starts for InterFolia_14:
(Start: 4 @4311 has 121 MA's), (Start: 6 @4332 has 53 MA's), (7, 4356), (9, 4377), (10, 4383), (11, 4392), (14, 4413), (15, 4416),

Gene: Iota_7 Start: 2926, Stop: 3072, Start Num: 3
Candidate Starts for Iota_7:
(Start: 3 @2926 has 16 MA's), (Start: 6 @2977 has 53 MA's), (7, 3001), (9, 3022), (10, 3028), (11, 3037), (14, 3058), (15, 3061),

Gene: Issimir_8 Start: 3125, Stop: 3220, Start Num: 6
Candidate Starts for Issimir_8:
(Start: 3 @3074 has 16 MA's), (Start: 6 @3125 has 53 MA's), (7, 3149), (9, 3170), (10, 3176), (11, 3185), (14, 3206), (15, 3209),

Gene: Izajani_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Izajani_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: JPickles_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for JPickles_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Janiyra_7 Start: 2010, Stop: 2126, Start Num: 4
Candidate Starts for Janiyra_7:
(Start: 4 @2010 has 121 MA's), (Start: 6 @2031 has 53 MA's), (7, 2055), (9, 2076), (10, 2082), (11, 2091), (14, 2112), (15, 2115),

Gene: JayJay_13 Start: 3840, Stop: 3956, Start Num: 4
Candidate Starts for JayJay_13:
(Start: 4 @3840 has 121 MA's), (Start: 6 @3861 has 53 MA's), (7, 3885), (9, 3906), (10, 3912), (11, 3921), (14, 3942), (15, 3945),

Gene: Jaygup_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Jaygup_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Jedediah_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Jedediah_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Jemmno_6 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Jemmno_6:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Jessibeth14_8 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for Jessibeth14_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Jezreel_11 Start: 3470, Stop: 3586, Start Num: 4
Candidate Starts for Jezreel_11:
(Start: 4 @3470 has 121 MA's), (Start: 6 @3491 has 53 MA's), (7, 3515), (9, 3536), (10, 3542), (11, 3551), (12, 3557), (13, 3560), (14, 3572), (15, 3575),

Gene: JigglyPuff_12 Start: 3846, Stop: 3941, Start Num: 6
Candidate Starts for JigglyPuff_12:
(Start: 3 @3795 has 16 MA's), (Start: 6 @3846 has 53 MA's), (7, 3870), (9, 3891), (10, 3897), (11, 3906), (14, 3927), (15, 3930),

Gene: JulietS_8 Start: 2368, Stop: 2484, Start Num: 4
Candidate Starts for JulietS_8:
(Start: 4 @2368 has 121 MA's), (Start: 6 @2389 has 53 MA's), (7, 2413), (9, 2434), (10, 2440), (11, 2449), (12, 2455), (13, 2458), (14, 2470), (15, 2473),

Gene: JustHall_7 Start: 3026, Stop: 3142, Start Num: 4
Candidate Starts for JustHall_7:

(Start: 4 @3026 has 121 MA's), (Start: 6 @3047 has 53 MA's), (7, 3071), (9, 3092), (10, 3098), (11, 3107), (14, 3128), (15, 3131),

Gene: Kamryn_11 Start: 3470, Stop: 3586, Start Num: 4
Candidate Starts for Kamryn_11:
(Start: 4 @3470 has 121 MA's), (Start: 6 @3491 has 53 MA's), (7, 3515), (9, 3536), (10, 3542), (11, 3551), (14, 3572), (15, 3575),

Gene: Kboogie_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Kboogie_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Khaleesi_8 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for Khaleesi_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Koguma_7 Start: 2218, Stop: 2334, Start Num: 4
Candidate Starts for Koguma_7:
(Start: 4 @2218 has 121 MA's), (Start: 6 @2239 has 53 MA's), (7, 2263), (9, 2284), (10, 2290), (11, 2299), (14, 2320), (15, 2323),

Gene: LRRHood_7 Start: 3203, Stop: 3319, Start Num: 4
Candidate Starts for LRRHood_7:
(Start: 4 @3203 has 121 MA's), (Start: 6 @3224 has 53 MA's), (7, 3248), (9, 3269), (10, 3275), (11, 3284), (14, 3305), (15, 3308),

Gene: Labradorite_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Labradorite_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Latch_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Latch_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Lee7_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Lee7_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Lethe_11 Start: 3413, Stop: 3529, Start Num: 4
Candidate Starts for Lethe_11:
(Start: 4 @3413 has 121 MA's), (Start: 6 @3434 has 53 MA's), (7, 3458), (9, 3479), (10, 3485), (11, 3494), (12, 3500), (13, 3503), (14, 3515), (15, 3518),

Gene: LifeSavor_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for LifeSavor_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: LinStu_13 Start: 4839, Stop: 4955, Start Num: 4
Candidate Starts for LinStu_13:
(Start: 4 @4839 has 121 MA's), (Start: 6 @4860 has 53 MA's), (7, 4884), (9, 4905), (10, 4911), (11, 4920), (14, 4941), (15, 4944),

Gene: Littleton_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Littleton_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Loanshark_8 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for Loanshark_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: LolaVinca_11 Start: 3411, Stop: 3527, Start Num: 4
Candidate Starts for LolaVinca_11:
(Start: 4 @3411 has 121 MA's), (Start: 6 @3432 has 53 MA's), (7, 3456), (9, 3477), (10, 3483), (11, 3492), (12, 3498), (13, 3501), (14, 3513), (15, 3516),

Gene: LookingGlass_11 Start: 3470, Stop: 3586, Start Num: 4
Candidate Starts for LookingGlass_11:
(Start: 4 @3470 has 121 MA's), (Start: 6 @3491 has 53 MA's), (7, 3515), (9, 3536), (10, 3542), (11, 3551), (14, 3572), (15, 3575),

Gene: LordLeafolot_14 Start: 4311, Stop: 4427, Start Num: 4
Candidate Starts for LordLeafolot_14:
(Start: 4 @4311 has 121 MA's), (Start: 6 @4332 has 53 MA's), (7, 4356), (9, 4377), (10, 4383), (11, 4392), (14, 4413), (15, 4416),

Gene: Lukilu_7 Start: 3217, Stop: 3333, Start Num: 4
Candidate Starts for Lukilu_7:
(Start: 4 @3217 has 121 MA's), (Start: 6 @3238 has 53 MA's), (7, 3262), (9, 3283), (10, 3289), (11, 3298), (14, 3319), (15, 3322),

Gene: Lunareta_10 Start: 3317, Stop: 3427, Start Num: 5
Candidate Starts for Lunareta_10:
(Start: 5 @3317 has 2 MA's), (Start: 6 @3332 has 53 MA's), (7, 3356), (9, 3377), (10, 3383), (11, 3392), (14, 3413), (15, 3416),

Gene: Maby2021_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Maby2021_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Maguvora_15 Start: 4313, Stop: 4429, Start Num: 4
Candidate Starts for Maguvora_15:
(Start: 4 @4313 has 121 MA's), (Start: 6 @4334 has 53 MA's), (7, 4358), (9, 4379), (10, 4385), (11, 4394), (14, 4415), (15, 4418),

Gene: Mangeria_12 Start: 3895, Stop: 4011, Start Num: 4
Candidate Starts for Mangeria_12:

(Start: 4 @3895 has 121 MA's), (Start: 6 @3916 has 53 MA's), (7, 3940), (9, 3961), (10, 3967), (11, 3976), (12, 3982), (13, 3985), (14, 3997), (15, 4000),

Gene: Matsumoto_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Matsumoto_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Maturis_11 Start: 3212, Stop: 3307, Start Num: 6
Candidate Starts for Maturis_11:
(Start: 6 @3212 has 53 MA's), (7, 3236), (9, 3257), (10, 3263), (11, 3272), (14, 3293), (15, 3296),

Gene: McGee_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for McGee_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: McWolfish_8 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for McWolfish_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Megamind_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Megamind_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Melpomini_7 Start: 2010, Stop: 2126, Start Num: 4
Candidate Starts for Melpomini_7:
(Start: 4 @2010 has 121 MA's), (Start: 6 @2031 has 53 MA's), (7, 2055), (9, 2076), (10, 2082), (11, 2091), (14, 2112), (15, 2115),

Gene: MikeLiesIn_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for MikeLiesIn_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Mikro_11 Start: 4490, Stop: 4585, Start Num: 6
Candidate Starts for Mikro_11:
(Start: 4 @4469 has 121 MA's), (Start: 6 @4490 has 53 MA's), (7, 4514), (9, 4535), (10, 4541), (11, 4550), (12, 4556), (13, 4559), (14, 4571), (15, 4574),

Gene: MoMoMixon_11 Start: 3746, Stop: 3862, Start Num: 4
Candidate Starts for MoMoMixon_11:
(Start: 4 @3746 has 121 MA's), (Start: 6 @3767 has 53 MA's), (7, 3791), (9, 3812), (10, 3818), (11, 3827), (12, 3833), (13, 3836), (14, 3848), (15, 3851),

Gene: Moby_5 Start: 1483, Stop: 1578, Start Num: 6
Candidate Starts for Moby_5:
(Start: 6 @1483 has 53 MA's), (7, 1507), (9, 1528), (10, 1534), (11, 1543), (14, 1564), (15, 1567),

Gene: Moiqah_5 Start: 1483, Stop: 1578, Start Num: 6
Candidate Starts for Moiqah_5:

(Start: 6 @1483 has 53 MA's), (7, 1507), (9, 1528), (10, 1534), (11, 1543), (14, 1564), (15, 1567),

Gene: Momo_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Momo_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Montpel_10 Start: 3317, Stop: 3427, Start Num: 5
Candidate Starts for Montpel_10:
(Start: 5 @3317 has 2 MA's), (Start: 6 @3332 has 53 MA's), (7, 3356), (9, 3377), (10, 3383), (11, 3392), (14, 3413), (15, 3416),

Gene: Morizzled23_7 Start: 2010, Stop: 2126, Start Num: 4
Candidate Starts for Morizzled23_7:
(Start: 4 @2010 has 121 MA's), (Start: 6 @2031 has 53 MA's), (7, 2055), (9, 2076), (10, 2082), (11, 2091), (14, 2112), (15, 2115),

Gene: Naija_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Naija_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Napoleon13_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Napoleon13_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Nappy_10 Start: 3136, Stop: 3252, Start Num: 4
Candidate Starts for Nappy_10:
(Start: 4 @3136 has 121 MA's), (Start: 6 @3157 has 53 MA's), (7, 3181), (9, 3202), (10, 3208), (11, 3217), (14, 3238), (15, 3241),

Gene: Naval22_12 Start: 3746, Stop: 3862, Start Num: 4
Candidate Starts for Naval22_12:
(Start: 4 @3746 has 121 MA's), (Start: 6 @3767 has 53 MA's), (7, 3791), (9, 3812), (10, 3818), (11, 3827), (12, 3833), (13, 3836), (14, 3848), (15, 3851),

Gene: NedWong_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for NedWong_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Ngannou_7 Start: 2010, Stop: 2126, Start Num: 4
Candidate Starts for Ngannou_7:
(Start: 4 @2010 has 121 MA's), (Start: 6 @2031 has 53 MA's), (7, 2055), (9, 2076), (10, 2082), (11, 2091), (14, 2112), (15, 2115),

Gene: Nidhogg_11 Start: 3746, Stop: 3862, Start Num: 4
Candidate Starts for Nidhogg_11:
(Start: 4 @3746 has 121 MA's), (Start: 6 @3767 has 53 MA's), (7, 3791), (9, 3812), (10, 3818), (11, 3827), (12, 3833), (13, 3836), (14, 3848), (15, 3851),

Gene: NoodleTree_11 Start: 3470, Stop: 3586, Start Num: 4

Candidate Starts for NoodleTree_11:
(Start: 4 @3470 has 121 MA's), (Start: 6 @3491 has 53 MA's), (7, 3515), (9, 3536), (10, 3542), (11, 3551), (12, 3557), (13, 3560), (14, 3572), (15, 3575),

Gene: Norm_8 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for Norm_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: NuevoMundo_13 Start: 4163, Stop: 4279, Start Num: 4
Candidate Starts for NuevoMundo_13:
(Start: 4 @4163 has 121 MA's), (Start: 6 @4184 has 53 MA's), (7, 4208), (9, 4229), (10, 4235), (11, 4244), (12, 4250), (13, 4253), (14, 4265), (15, 4268),

Gene: OrediggerDelux_8 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for OrediggerDelux_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: ParkTD_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for ParkTD_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Patter_7 Start: 2048, Stop: 2164, Start Num: 4
Candidate Starts for Patter_7:
(Start: 4 @2048 has 121 MA's), (Start: 6 @2069 has 53 MA's), (7, 2093), (9, 2114), (10, 2120), (11, 2129), (14, 2150), (15, 2153),

Gene: PharkleMinkus_14 Start: 4312, Stop: 4428, Start Num: 4
Candidate Starts for PharkleMinkus_14:
(Start: 4 @4312 has 121 MA's), (Start: 6 @4333 has 53 MA's), (7, 4357), (9, 4378), (10, 4384), (11, 4393), (14, 4414), (15, 4417),

Gene: Phlegm_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Phlegm_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Phox_7 Start: 3221, Stop: 3316, Start Num: 6
Candidate Starts for Phox_7:
(Start: 4 @3200 has 121 MA's), (Start: 6 @3221 has 53 MA's), (7, 3245), (9, 3266), (10, 3272), (11, 3281), (14, 3302), (15, 3305),

Gene: Phusco_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Phusco_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Pier_14 Start: 4141, Stop: 4257, Start Num: 4
Candidate Starts for Pier_14:
(Start: 4 @4141 has 121 MA's), (Start: 6 @4162 has 53 MA's), (7, 4186), (9, 4207), (10, 4213), (11, 4222), (14, 4243), (15, 4246),

Gene: Pinkcreek_4 Start: 2466, Stop: 2561, Start Num: 6
Candidate Starts for Pinkcreek_4:
(Start: 6 @2466 has 53 MA's), (7, 2490), (9, 2511), (10, 2517), (11, 2526), (14, 2547), (15, 2550),

Gene: Pio_12 Start: 3900, Stop: 4016, Start Num: 4
Candidate Starts for Pio_12:
(Start: 4 @3900 has 121 MA's), (Start: 6 @3921 has 53 MA's), (7, 3945), (9, 3966), (10, 3972), (11, 3981), (12, 3987), (13, 3990), (14, 4002), (15, 4005),

Gene: Pivoine_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Pivoine_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Pleione_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Pleione_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Primadonna_8 Start: 3575, Stop: 3691, Start Num: 4
Candidate Starts for Primadonna_8:
(Start: 4 @3575 has 121 MA's), (Start: 6 @3596 has 53 MA's), (7, 3620), (9, 3641), (10, 3647), (11, 3656), (12, 3662), (13, 3665), (14, 3677), (15, 3680),

Gene: Puhon_14 Start: 4311, Stop: 4427, Start Num: 4
Candidate Starts for Puhon_14:
(Start: 4 @4311 has 121 MA's), (Start: 6 @4332 has 53 MA's), (7, 4356), (9, 4377), (10, 4383), (11, 4392), (14, 4413), (15, 4416),

Gene: Pupusa_14 Start: 4311, Stop: 4427, Start Num: 4
Candidate Starts for Pupusa_14:
(Start: 4 @4311 has 121 MA's), (Start: 6 @4332 has 53 MA's), (7, 4356), (9, 4377), (10, 4383), (11, 4392), (14, 4413), (15, 4416),

Gene: PurduePete_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for PurduePete_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: QBert_8 Start: 3371, Stop: 3487, Start Num: 4
Candidate Starts for QBert_8:
(Start: 4 @3371 has 121 MA's), (Start: 6 @3392 has 53 MA's), (7, 3416), (9, 3437), (10, 3443), (11, 3452), (12, 3458), (13, 3461), (14, 3473), (15, 3476),

Gene: Quasimodo_7 Start: 3030, Stop: 3146, Start Num: 4
Candidate Starts for Quasimodo_7:
(Start: 4 @3030 has 121 MA's), (Start: 6 @3051 has 53 MA's), (7, 3075), (9, 3096), (10, 3102), (11, 3111), (14, 3132), (15, 3135),

Gene: Rabinovish_6 Start: 2837, Stop: 2932, Start Num: 6
Candidate Starts for Rabinovish_6:
(Start: 6 @2837 has 53 MA's), (7, 2861), (9, 2882), (10, 2888), (11, 2897), (14, 2918), (15, 2921),

Gene: Rahel_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Rahel_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Rizal_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Rizal_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: RoMag_7 Start: 3220, Stop: 3336, Start Num: 4
Candidate Starts for RoMag_7:
(Start: 4 @3220 has 121 MA's), (Start: 6 @3241 has 53 MA's), (7, 3265), (9, 3286), (10, 3292), (11, 3301), (12, 3307), (13, 3310), (14, 3322), (15, 3325),

Gene: Rocha_11 Start: 3467, Stop: 3583, Start Num: 4
Candidate Starts for Rocha_11:
(Start: 4 @3467 has 121 MA's), (Start: 6 @3488 has 53 MA's), (7, 3512), (9, 3533), (10, 3539), (11, 3548), (14, 3569), (15, 3572),

Gene: Ronan_7 Start: 2222, Stop: 2317, Start Num: 6
Candidate Starts for Ronan_7:
(Start: 4 @2201 has 121 MA's), (Start: 6 @2222 has 53 MA's), (7, 2246), (9, 2267), (10, 2273), (11, 2282), (14, 2303), (15, 2306),

Gene: Roots515_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Roots515_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: SVoro_8 Start: 3125, Stop: 3220, Start Num: 6
Candidate Starts for SVoro_8:
(Start: 3 @3074 has 16 MA's), (Start: 6 @3125 has 53 MA's), (7, 3149), (9, 3170), (10, 3176), (11, 3185), (14, 3206), (15, 3209),

Gene: Salacia_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Salacia_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Sauce_12 Start: 3750, Stop: 3866, Start Num: 4
Candidate Starts for Sauce_12:
(Start: 4 @3750 has 121 MA's), (Start: 6 @3771 has 53 MA's), (7, 3795), (9, 3816), (10, 3822), (11, 3831), (12, 3837), (13, 3840), (14, 3852), (15, 3855),

Gene: ScottMcG_7 Start: 2424, Stop: 2519, Start Num: 6
Candidate Starts for ScottMcG_7:
(Start: 4 @2403 has 121 MA's), (Start: 6 @2424 has 53 MA's), (7, 2448), (9, 2469), (10, 2475), (11, 2484), (14, 2505), (15, 2508),

Gene: Sebata_13 Start: 4839, Stop: 4955, Start Num: 4
Candidate Starts for Sebata_13:

(Start: 4 @4839 has 121 MA's), (Start: 6 @4860 has 53 MA's), (7, 4884), (9, 4905), (10, 4911), (11, 4920), (14, 4941), (15, 4944),

Gene: Shaqnato_7 Start: 2218, Stop: 2334, Start Num: 4
Candidate Starts for Shaqnato_7:
(Start: 4 @2218 has 121 MA's), (Start: 6 @2239 has 53 MA's), (7, 2263), (9, 2284), (10, 2290), (11, 2299), (14, 2320), (15, 2323),

Gene: Shelob_8 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for Shelob_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: ShiaLabeouf_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for ShiaLabeouf_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Shifa_4 Start: 2404, Stop: 2499, Start Num: 6
Candidate Starts for Shifa_4:
(1, 2170), (Start: 6 @2404 has 53 MA's), (7, 2428), (9, 2449), (10, 2455), (11, 2464), (14, 2485), (15, 2488),

Gene: Shnickers_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Shnickers_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Shrimp_8 Start: 3135, Stop: 3230, Start Num: 6
Candidate Starts for Shrimp_8:
(Start: 3 @3084 has 16 MA's), (Start: 6 @3135 has 53 MA's), (7, 3159), (9, 3180), (10, 3186), (11, 3195), (14, 3216), (15, 3219),

Gene: SilverDipper_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for SilverDipper_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: SiwenD96_12 Start: 4014, Stop: 4130, Start Num: 4
Candidate Starts for SiwenD96_12:
(Start: 4 @4014 has 121 MA's), (Start: 6 @4035 has 53 MA's), (7, 4059), (9, 4080), (10, 4086), (11, 4095), (12, 4101), (13, 4104), (14, 4116), (15, 4119),

Gene: SmallFry_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for SmallFry_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: SoilZilla_7 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for SoilZilla_7:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Spec_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Spec_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Specks_14 Start: 4352, Stop: 4468, Start Num: 4
Candidate Starts for Specks_14:
(Start: 4 @4352 has 121 MA's), (Start: 6 @4373 has 53 MA's), (7, 4397), (9, 4418), (10, 4424), (11, 4433), (14, 4454), (15, 4457),

Gene: Sprinklers_7 Start: 2201, Stop: 2317, Start Num: 4
Candidate Starts for Sprinklers_7:
(Start: 4 @2201 has 121 MA's), (Start: 6 @2222 has 53 MA's), (7, 2246), (9, 2267), (10, 2273), (11, 2282), (14, 2303), (15, 2306),

Gene: Spud_12 Start: 3921, Stop: 4016, Start Num: 6
Candidate Starts for Spud_12:
(Start: 4 @3900 has 121 MA's), (Start: 6 @3921 has 53 MA's), (7, 3945), (9, 3966), (10, 3972), (11, 3981), (12, 3987), (13, 3990), (14, 4002), (15, 4005),

Gene: SrishMeg2525_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for SrishMeg2525_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: StephanieG_13 Start: 4166, Stop: 4282, Start Num: 4
Candidate Starts for StephanieG_13:
(Start: 4 @4166 has 121 MA's), (Start: 6 @4187 has 53 MA's), (7, 4211), (9, 4232), (10, 4238), (11, 4247), (12, 4253), (13, 4256), (14, 4268), (15, 4271),

Gene: Stubby_5 Start: 2471, Stop: 2566, Start Num: 6
Candidate Starts for Stubby_5:
(Start: 6 @2471 has 53 MA's), (7, 2495), (9, 2516), (10, 2522), (11, 2531), (14, 2552), (15, 2555),

Gene: StubbySaigey_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for StubbySaigey_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Substance289_6 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Substance289_6:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Tainan_14 Start: 4311, Stop: 4427, Start Num: 4
Candidate Starts for Tainan_14:
(Start: 4 @4311 has 121 MA's), (Start: 6 @4332 has 53 MA's), (7, 4356), (9, 4377), (10, 4383), (11, 4392), (14, 4413), (15, 4416),

Gene: Teardrop_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Teardrop_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: TinyTim_8 Start: 3080, Stop: 3226, Start Num: 3
Candidate Starts for TinyTim_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Tonenili_10 Start: 2997, Stop: 3092, Start Num: 6
Candidate Starts for Tonenili_10:
(Start: 6 @2997 has 53 MA's), (7, 3021), (9, 3042), (10, 3048), (11, 3057), (14, 3078), (15, 3081),

Gene: Tortoise16_6 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Tortoise16_6:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Trinitium_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for Trinitium_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Turret_7 Start: 2010, Stop: 2126, Start Num: 4
Candidate Starts for Turret_7:
(Start: 4 @2010 has 121 MA's), (Start: 6 @2031 has 53 MA's), (7, 2055), (9, 2076), (10, 2082), (11, 2091), (14, 2112), (15, 2115),

Gene: Tyke_11 Start: 3382, Stop: 3492, Start Num: 5
Candidate Starts for Tyke_11:
(Start: 5 @3382 has 2 MA's), (Start: 6 @3397 has 53 MA's), (7, 3421), (9, 3442), (10, 3448), (11, 3457), (13, 3466), (14, 3478), (15, 3481),

Gene: ValleyTerrace_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for ValleyTerrace_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Vortrix_10 Start: 3030, Stop: 3125, Start Num: 6
Candidate Starts for Vortrix_10:
(Start: 6 @3030 has 53 MA's), (7, 3054), (9, 3075), (10, 3081), (11, 3090), (14, 3111), (15, 3114),

Gene: Wally_7 Start: 2031, Stop: 2147, Start Num: 4
Candidate Starts for Wally_7:
(Start: 4 @2031 has 121 MA's), (Start: 6 @2052 has 53 MA's), (7, 2076), (9, 2097), (10, 2103), (11, 2112), (14, 2133), (15, 2136),

Gene: Willis_7 Start: 3036, Stop: 3152, Start Num: 4
Candidate Starts for Willis_7:
(Start: 4 @3036 has 121 MA's), (Start: 6 @3057 has 53 MA's), (7, 3081), (9, 3102), (10, 3108), (11, 3117), (14, 3138), (15, 3141),

Gene: Yassified_7 Start: 2222, Stop: 2338, Start Num: 4
Candidate Starts for Yassified_7:
(Start: 4 @2222 has 121 MA's), (Start: 6 @2243 has 53 MA's), (7, 2267), (9, 2288), (10, 2294), (11, 2303), (14, 2324), (15, 2327),

Gene: YemiJoy2021_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for YemiJoy2021_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: YoungMoneyMata_7 Start: 2027, Stop: 2143, Start Num: 4
Candidate Starts for YoungMoneyMata_7:
(Start: 4 @2027 has 121 MA's), (Start: 6 @2048 has 53 MA's), (7, 2072), (9, 2093), (10, 2099), (11, 2108), (14, 2129), (15, 2132),

Gene: Yucca_7 Start: 3032, Stop: 3148, Start Num: 4
Candidate Starts for Yucca_7:
(Start: 4 @3032 has 121 MA's), (Start: 6 @3053 has 53 MA's), (7, 3077), (9, 3098), (10, 3104), (11, 3113), (14, 3134), (15, 3137),

Gene: Zalkecks_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for Zalkecks_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),

Gene: Zeenon_9 Start: 3132, Stop: 3227, Start Num: 6
Candidate Starts for Zeenon_9:
(Start: 3 @3081 has 16 MA's), (Start: 6 @3132 has 53 MA's), (7, 3156), (9, 3177), (10, 3183), (11, 3192), (14, 3213), (15, 3216),

Gene: ZygoTaiga_8 Start: 3131, Stop: 3226, Start Num: 6
Candidate Starts for ZygoTaiga_8:
(Start: 3 @3080 has 16 MA's), (Start: 6 @3131 has 53 MA's), (7, 3155), (9, 3176), (10, 3182), (11, 3191), (14, 3212), (15, 3215),