

Pham 212315



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 212315 Report

This analysis was run 02/22/25 on database version 588.

Pham number 212315 has 178 members, 25 are drafts.

Phages represented in each track:

- Track 1 : Ronan_62, EasyJones_70, Melpomini_63, Shaqnato_62, ErnieJ_66, Halldule_61, BadAgartude_67, DirtMonster_63, Pinkcreek_60, Blackdragon_63, Yassified_65, LRRHood_64, Alice_62, Grungle_58, Lukilu_60, Koguma_65, Morizzled23_70, Astraea_69, Roots515_67, Napoleon13_65, Rabinovish_67, JulietS_61, Sauce_69, Shifa_60, Stubby_63, Phox_66
- Track 2 : PurduePete_68, LolaVinca_71, FoxtrotP1_69, Littleton_68, Kamryn_68, Bipolarisk_68, Guwapp_67, Ading_68, Delilah_69, StubbySaigey_69, CindyLou_69, Capablanca_70, Salacia_71, Gabriel_70, Jedediah_70, Willis_69, FudgeTart_70, Derek_68, Jezreel_66, Tyke_70, Chomp_67, ValleyTerrace_68, DrPhinkDaddy_68, ShiaLabeouf_68, Momo_67, Belieber_62, Ngannou_63, Fludd_68, EmmaElysia_67, Erdmann_69, SilverDipper_69, Flabslab_65, Naval22_74, Gizmo_72, Delylah_71, Shelob_71, Burrough_68, McWolfish_67, Phlegm_70, Jaygup_68, Daffodil_72, GlutenPhree_65, BackyardAgain_65, Jemmno_68, Essence_67, Caravan_65, Maby2021_69, Naija_67, Mikro_66, DTDevon_69, Ewok_69, ChaylaJr_64, Pivoine_67, YoungMoneyMata_68, Primadonna_64, Nidhogg_69, Ghost_67, ZygoTaiga_68, McGee_68, Fongie_67, Amataga_68, NedWong_70, Zeenon_70, Mangeria_72, Izajani_69, Yucca_68, InigoMontoya_69, Shnickers_68, MoMoMixon_69, SVoro_67, Atlantean_67, Asterius_70, Rahel_69, Rizal_66, JPickles_67, LifeSavor_67, MikeLiesIn_69, EmToTheThree_72, Megamind_68, Bread_68, Patter_68, Matsumoto_66, ScottMcG_66, YemiJoy2021_69, Tortoise16_66, SrishMeg2525_68, Turret_63, TinyTim_69, Bonray_69, SmallFry_68, Quasimodo_68, Dietrick_62, Khaleesi_68, Zalkecks_70, Spec_65, Phusco_68, JustHall_64, InterFolia_78, Norm_69, Loanshark_69, Latch_68, ParkTD_69, Blackbrain_63, BananaFence_69, Gamgam_68, Darko_68, Janiyra_70
- Track 3 : Cane17_58, CharlieB_66, Cactojaque_63, Domi_62, Colt_60, RoMag_63, Lethe_68, Chargie21_64, Ablatia_64, QBert_63, BeanWater_62, JayJay_75, Teardrop_68, IkeLoa_63, Adlitam_68, Iota_63, Jessibeth14_67, Lee7_66, ChickenPhender_64, NuevoMundo_74, Sprinklers_65, StephanieG_68, Specks_74, Basquiat_64, Trinitium_64
- Track 4 : BigCity_74, Grasshills_74, EggyFarm_74
- Track 5 : Blubba_59
- Track 6 : JigglyPuff_73, Demodog_73, NoodleTree_69, Bigswole_75, Concombre_74
- Track 7 : LinStu_68, HyRo_63, Sebata_69
- Track 8 : DeejaClivia_59
- Track 9 : Issimir_68
- Track 10 : LordLeafolot_73, FrayBell_75, Tainan_73

- Track 11 : I3_72
- Track 12 : ScoobyDoobyDoo_47
- Track 13 : Myrna_53

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

The start number called the most often in the published annotations is 6, it was called in 153 of the 153 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ablatia_64, Ading_68, Adlitam_68, Alice_62, Amataga_68, Asterius_70, Astraea_69, Atlantean_67, BackyardAgain_65, BadAgartude_67, BananaFence_69, Basquiat_64, BeanWater_62, Belieber_62, BigCity_74, Bigswole_75, Bipolarisk_68, Blackbrain_63, Blackdragon_63, Blubba_59, Bonray_69, Bread_68, Burrough_68, Cactojaque_63, Cane17_58, Capablanca_70, Caravan_65, Chargie21_64, CharlieB_66, ChaylaJr_64, ChickenPhender_64, Chomp_67, CindyLou_69, Colt_60, Concombre_74, DTDevon_69, Daffodil_72, Darko_68, DeejaClivia_59, Delilah_69, Delylah_71, Demodog_73, Derek_68, Dietrick_62, DirtMonster_63, Domi_62, DrPhinkDaddy_68, EasyJones_70, EggyFarm_74, EmToTheThree_72, EmmaElysia_67, Erdmann_69, ErnieJ_66, Essence_67, Ewok_69, Flabslab_65, Fludd_68, Fongie_67, FoxtrotP1_69, FrayBell_75, FudgeTart_70, Gabriel_70, Gangam_68, Ghost_67, Gizmo_72, GlutenPhree_65, Grasshills_74, Grungle_58, Guwapp_67, Haldule_61, HyRo_63, I3_72, IkeLoa_63, InigoMontoya_69, InterFolia_78, Iota_63, Issimir_68, Izajani_69, JPickles_67, Janiyra_70, JayJay_75, Jaygup_68, Jedediah_70, Jemmno_68, Jessibeth14_67, Jezreel_66, JigglyPuff_73, JulietS_61, JustHall_64, Kamryn_68, Khaleesi_68, Koguma_65, LRRHood_64, Latch_68, Lee7_66, Lethe_68, LifeSavor_67, LinStu_68, Littleton_68, Loanshark_69, LolaVinca_71, LordLeafolot_73, Lukilu_60, Maby2021_69, Mangeria_72, Matsumoto_66, McGee_68, McWolfish_67, Megamind_68, Melpomini_63, MikeLiesIn_69, Mikro_66, MoMoMixon_69, Momo_67, Morizzled23_70, Myrna_53, Naija_67, Napoleon13_65, Naval22_74, NedWong_70, Ngannou_63, Nidhogg_69, NoodleTree_69, Norm_69, NuevoMundo_74, ParkTD_69, Patter_68, Phlegm_70, Phox_66, Phusco_68, Pinkcreek_60, Pivoine_67, Primadonna_64, PurduePete_68, QBert_63, Quasimodo_68, Rabinovish_67, Rahel_69, Rizal_66, RoMag_63, Ronan_62, Roots515_67, SVoro_67, Salacia_71, Sauce_69, ScoobyDoobyDoo_47, ScottMcG_66, Sebata_69, Shaqnato_62, Shelob_71, ShiaLabeouf_68, Shifa_60, Shnickers_68, SilverDipper_69, SmallFry_68, Spec_65, Specks_74, Sprinklers_65, SrishMeg2525_68, StephanieG_68, StubbySaigey_69, Stubby_63, Tainan_73, Teardrop_68, TinyTim_69, Tortoise16_66, Trinitium_64, Turret_63, Tyke_70, ValleyTerrace_68, Willis_69, Yassified_65, YemiJoy2021_69, YoungMoneyMata_68, Yucca_68, Zalkecks_70, Zeenon_70, ZygoTaiga_68,

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

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

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Summary by start number:

Start 6:

- Found in 178 of 178 (100.0%) of genes in pham
- Manual Annotations of this start: 153 of 153
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ablatia_64 (C1), Ading_68 (C1), Adlitam_68 (C1), Alice_62 (C1), Amataga_68 (C1), Asterius_70 (C1), Astraea_69 (C1), Atlantean_67 (C1), BackyardAgain_65 (C1), BadAgartude_67 (C1), BananaFence_69 (C1), Basquiat_64 (C1), BeanWater_62 (C1), Belieber_62 (C1), BigCity_74 (C1), Bigswole_75 (C1), Bipolarisk_68 (C1), Blackbrain_63 (C1), Blackdragon_63 (C1), Blubba_59 (C1), Bonray_69 (C1), Bread_68 (C1), Burrough_68 (C1), Cactojaque_63 (C1), Cane17_58 (C1), Capablanca_70 (C1), Caravan_65 (C1), Chargie21_64 (C1), CharlieB_66 (C1), ChaylaJr_64 (C1), ChickenPhender_64 (C1), Chomp_67 (C1), CindyLou_69 (C1), Colt_60 (C1), Concombre_74 (C1), DTDevon_69 (C1), Daffodil_72 (C1), Darko_68 (C1), DeejaClivia_59 (C1), Delilah_69 (C1), Delylah_71 (C1), Demodog_73 (C1), Derek_68 (C1), Dietrick_62 (C1), DirtMonster_63 (C1), Domi_62 (C1), DrPhinkDaddy_68 (C1), EasyJones_70 (C1), EggyFarm_74 (C1), EmToTheThree_72 (C1), EmmaElysia_67 (C1), Erdmann_69 (C1), ErnieJ_66 (C1), Essence_67 (C1), Ewok_69 (C1), Flabslab_65 (C1), Fludd_68 (C1), Fongie_67 (C1), FoxtrotP1_69 (C1), FrayBell_75 (C1), FudgeTart_70 (C1), Gabriel_70 (C1), Gamgam_68 (C1), Ghost_67 (C1), Gizmo_72 (C1), GlutenPhree_65 (C1), Grasshills_74 (C1), Grungle_58 (C1), Guwapp_67 (C1), Halldule_61 (C1), HyRo_63 (C1), I3_72 (C1), IkeLoa_63 (C1), InigoMontoya_69 (C1), InterFolia_78 (C1), Iota_63 (C1), Issimir_68 (C1), Izajani_69 (C1), JPickles_67 (C1), Janiyra_70 (C1), JayJay_75 (C1), Jaygup_68 (C1), Jediah_70 (C1), Jemmno_68 (C1), Jessibeth14_67 (C1), Jezreel_66 (C1), JigglyPuff_73 (C1), JulietS_61 (C1), JustHall_64 (C1), Kamryn_68 (C1), Khaleesi_68 (C1), Koguma_65 (C1), LRRHood_64 (C1), Latch_68 (C1), Lee7_66 (C1), Lethe_68 (C1), LifeSavor_67 (C1), LinStu_68 (C1), Littleton_68 (C1), Loanshark_69 (C1), LolaVinca_71 (C1), LordLeafolot_73 (C1), Lukilu_60 (C1), Maby2021_69 (C1), Mangeria_72 (C1), Matsumoto_66 (C1), McGee_68 (C1), McWolfish_67 (C1), Megamind_68 (C1), Melpomini_63 (C1), MikeLiesIn_69 (C1), Mikro_66 (C1), MoMoMixon_69 (C1), Momo_67 (C1), Morizzled23_70 (C1), Myrna_53 (C2), Naija_67 (C1), Napoleon13_65 (C1), Naval22_74 (C1), NedWong_70 (C1), Ngannou_63 (C1), Nidhogg_69 (C1), NoodleTree_69 (C1), Norm_69 (C1), NuevoMundo_74 (C1), ParkTD_69 (C1), Patter_68 (C1), Phlegm_70 (C1), Phox_66 (C1), Phusco_68 (C1), Pinkcreek_60 (C1), Pivoine_67 (C1), Primadonna_64 (C1), PurduePete_68 (C1), QBert_63 (C1), Quasimodo_68 (C1), Rabinovish_67 (C1), Rahel_69 (C1), Rizal_66 (C1), RoMag_63 (C1), Ronan_62 (C1), Roots515_67 (C1), SVoro_67 (C1), Salacia_71 (C1), Sauce_69 (C1), ScoobyDoobyDoo_47 (C2), ScottMcG_66 (C1), Sebata_69 (C1), Shaqnato_62 (C1), Shelob_71 (C1), ShiaLabeouf_68 (C1), Shifa_60 (C1), Shnickers_68 (C1), SilverDipper_69 (C1), SmallFry_68 (C1), Spec_65 (C1), Specks_74 (C1), Sprinklers_65 (C1), SrishMeg2525_68 (C1), StephanieG_68 (C1), StubbySaigey_69 (C1), Stubby_63 (C1), Tainan_73 (C1), Teardrop_68 (C1), TinyTim_69 (C1), Tortoise16_66 (C1), Trinitium_64 (C1), Turret_63 (C1), Tyke_70 (C1), ValleyTerrace_68 (C1), Willis_69 (C1), Yassified_65 (C1), YemiJoy2021_69 (C1), YoungMoneyMata_68 (C1), Yucca_68 (C1), Zalkecks_70 (C1), Zeenon_70 (C1), ZygoTaiga_68 (C1),

Summary by clusters:

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

Info for manual annotations of cluster C1:

- Start number 6 was manually annotated 151 times for cluster C1.

Info for manual annotations of cluster C2:

- Start number 6 was manually annotated 2 times for cluster C2.

Gene Information:

Gene: Ablatia_64 Start: 21533, Stop: 21739, Start Num: 6

Candidate Starts for Ablatia_64:

(1, 21326), (2, 21338), (3, 21404), (Start: 6 @21533 has 153 MA's), (7, 21563), (11, 21683), (12, 21710), (14, 21716),

Gene: Ading_68 Start: 21575, Stop: 21781, Start Num: 6

Candidate Starts for Ading_68:

(3, 21446), (Start: 6 @21575 has 153 MA's), (7, 21605), (11, 21725), (12, 21752), (14, 21758),

Gene: Adlitam_68 Start: 21592, Stop: 21798, Start Num: 6

Candidate Starts for Adlitam_68:

(1, 21385), (2, 21397), (3, 21463), (Start: 6 @21592 has 153 MA's), (7, 21622), (11, 21742), (12, 21769), (14, 21775),

Gene: Alice_62 Start: 21307, Stop: 21513, Start Num: 6

Candidate Starts for Alice_62:

(Start: 6 @21307 has 153 MA's), (7, 21337), (11, 21457), (12, 21484), (14, 21490),

Gene: Amataga_68 Start: 21596, Stop: 21802, Start Num: 6

Candidate Starts for Amataga_68:

(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Asterius_70 Start: 21991, Stop: 22197, Start Num: 6

Candidate Starts for Asterius_70:

(3, 21862), (Start: 6 @21991 has 153 MA's), (7, 22021), (11, 22141), (12, 22168), (14, 22174),

Gene: Astraea_69 Start: 22710, Stop: 22916, Start Num: 6

Candidate Starts for Astraea_69:

(Start: 6 @22710 has 153 MA's), (7, 22740), (11, 22860), (12, 22887), (14, 22893),

Gene: Atlantean_67 Start: 21596, Stop: 21802, Start Num: 6

Candidate Starts for Atlantean_67:

(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: BackyardAgain_65 Start: 21527, Stop: 21733, Start Num: 6

Candidate Starts for BackyardAgain_65:

(3, 21398), (Start: 6 @21527 has 153 MA's), (7, 21557), (11, 21677), (12, 21704), (14, 21710),

Gene: BadAgartude_67 Start: 23051, Stop: 23257, Start Num: 6

Candidate Starts for BadAgartude_67:

(Start: 6 @23051 has 153 MA's), (7, 23081), (11, 23201), (12, 23228), (14, 23234),

Gene: BananaFence_69 Start: 22534, Stop: 22740, Start Num: 6

Candidate Starts for BananaFence_69:

(3, 22405), (Start: 6 @22534 has 153 MA's), (7, 22564), (11, 22684), (12, 22711), (14, 22717),

Gene: Basquiat_64 Start: 21078, Stop: 21284, Start Num: 6

Candidate Starts for Basquiat_64:

(1, 20871), (2, 20883), (3, 20949), (Start: 6 @21078 has 153 MA's), (7, 21108), (11, 21228), (12, 21255), (14, 21261),

Gene: BeanWater_62 Start: 22000, Stop: 22206, Start Num: 6

Candidate Starts for BeanWater_62:

(1, 21793), (2, 21805), (3, 21871), (Start: 6 @22000 has 153 MA's), (7, 22030), (11, 22150), (12, 22177), (14, 22183),

Gene: Belieber_62 Start: 20948, Stop: 21154, Start Num: 6

Candidate Starts for Belieber_62:

(3, 20819), (Start: 6 @20948 has 153 MA's), (7, 20978), (11, 21098), (12, 21125), (14, 21131),

Gene: BigCity_74 Start: 24148, Stop: 24351, Start Num: 6

Candidate Starts for BigCity_74:

(4, 24025), (5, 24070), (Start: 6 @24148 has 153 MA's), (7, 24178), (11, 24298), (12, 24325), (15, 24343),

Gene: Bigswole_75 Start: 25182, Stop: 25385, Start Num: 6

Candidate Starts for Bigswole_75:

(1, 24975), (2, 24987), (3, 25053), (Start: 6 @25182 has 153 MA's), (7, 25212), (11, 25332), (12, 25359), (15, 25377),

Gene: Bipolarisk_68 Start: 22361, Stop: 22567, Start Num: 6

Candidate Starts for Bipolarisk_68:

(3, 22232), (Start: 6 @22361 has 153 MA's), (7, 22391), (11, 22511), (12, 22538), (14, 22544),

Gene: Blackbrain_63 Start: 20895, Stop: 21101, Start Num: 6

Candidate Starts for Blackbrain_63:

(3, 20766), (Start: 6 @20895 has 153 MA's), (7, 20925), (11, 21045), (12, 21072), (14, 21078),

Gene: Blackdragon_63 Start: 21519, Stop: 21725, Start Num: 6

Candidate Starts for Blackdragon_63:

(Start: 6 @21519 has 153 MA's), (7, 21549), (11, 21669), (12, 21696), (14, 21702),

Gene: Blubba_59 Start: 19764, Stop: 19970, Start Num: 6

Candidate Starts for Blubba_59:

(4, 19641), (5, 19686), (Start: 6 @19764 has 153 MA's), (7, 19794), (11, 19914), (12, 19941), (14, 19947),

Gene: Bonray_69 Start: 22638, Stop: 22844, Start Num: 6

Candidate Starts for Bonray_69:

(3, 22509), (Start: 6 @22638 has 153 MA's), (7, 22668), (11, 22788), (12, 22815), (14, 22821),

Gene: Bread_68 Start: 22331, Stop: 22537, Start Num: 6

Candidate Starts for Bread_68:

(3, 22202), (Start: 6 @22331 has 153 MA's), (7, 22361), (11, 22481), (12, 22508), (14, 22514),

Gene: Burrough_68 Start: 22364, Stop: 22570, Start Num: 6

Candidate Starts for Burrough_68:

(3, 22235), (Start: 6 @22364 has 153 MA's), (7, 22394), (11, 22514), (12, 22541), (14, 22547),

Gene: Cactojaque_63 Start: 21002, Stop: 21208, Start Num: 6

Candidate Starts for Cactojaque_63:

(1, 20795), (2, 20807), (3, 20873), (Start: 6 @21002 has 153 MA's), (7, 21032), (11, 21152), (12, 21179), (14, 21185),

Gene: Cane17_58 Start: 19374, Stop: 19580, Start Num: 6

Candidate Starts for Cane17_58:

(1, 19167), (2, 19179), (3, 19245), (Start: 6 @19374 has 153 MA's), (7, 19404), (11, 19524), (12, 19551), (14, 19557),

Gene: Capablanca_70 Start: 22721, Stop: 22927, Start Num: 6

Candidate Starts for Capablanca_70:

(3, 22592), (Start: 6 @22721 has 153 MA's), (7, 22751), (11, 22871), (12, 22898), (14, 22904),

Gene: Caravan_65 Start: 21709, Stop: 21915, Start Num: 6

Candidate Starts for Caravan_65:

(3, 21580), (Start: 6 @21709 has 153 MA's), (7, 21739), (11, 21859), (12, 21886), (14, 21892),

Gene: Chargie21_64 Start: 21078, Stop: 21284, Start Num: 6

Candidate Starts for Chargie21_64:

(1, 20871), (2, 20883), (3, 20949), (Start: 6 @21078 has 153 MA's), (7, 21108), (11, 21228), (12, 21255), (14, 21261),

Gene: CharlieB_66 Start: 21235, Stop: 21441, Start Num: 6

Candidate Starts for CharlieB_66:

(1, 21028), (2, 21040), (3, 21106), (Start: 6 @21235 has 153 MA's), (7, 21265), (11, 21385), (12, 21412), (14, 21418),

Gene: ChaylaJr_64 Start: 21109, Stop: 21315, Start Num: 6

Candidate Starts for ChaylaJr_64:

(3, 20980), (Start: 6 @21109 has 153 MA's), (7, 21139), (11, 21259), (12, 21286), (14, 21292),

Gene: ChickenPhender_64 Start: 21126, Stop: 21332, Start Num: 6

Candidate Starts for ChickenPhender_64:

(1, 20919), (2, 20931), (3, 20997), (Start: 6 @21126 has 153 MA's), (7, 21156), (11, 21276), (12, 21303), (14, 21309),

Gene: Chomp_67 Start: 21596, Stop: 21802, Start Num: 6

Candidate Starts for Chomp_67:

(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: CindyLou_69 Start: 22121, Stop: 22327, Start Num: 6

Candidate Starts for CindyLou_69:

(3, 21992), (Start: 6 @22121 has 153 MA's), (7, 22151), (11, 22271), (12, 22298), (14, 22304),

Gene: Colt_60 Start: 20360, Stop: 20566, Start Num: 6

Candidate Starts for Colt_60:

(1, 20153), (2, 20165), (3, 20231), (Start: 6 @20360 has 153 MA's), (7, 20390), (11, 20510), (12, 20537), (14, 20543),

Gene: Concombres_74 Start: 24709, Stop: 24912, Start Num: 6

Candidate Starts for Concombres_74:

(1, 24502), (2, 24514), (3, 24580), (Start: 6 @24709 has 153 MA's), (7, 24739), (11, 24859), (12, 24886), (15, 24904),

Gene: DTDevon_69 Start: 22760, Stop: 22966, Start Num: 6

Candidate Starts for DTDevon_69:

(3, 22631), (Start: 6 @22760 has 153 MA's), (7, 22790), (11, 22910), (12, 22937), (14, 22943),

Gene: Daffodil_72 Start: 22650, Stop: 22856, Start Num: 6

Candidate Starts for Daffodil_72:

(3, 22521), (Start: 6 @22650 has 153 MA's), (7, 22680), (11, 22800), (12, 22827), (14, 22833),

Gene: Darko_68 Start: 22503, Stop: 22709, Start Num: 6

Candidate Starts for Darko_68:

(3, 22374), (Start: 6 @22503 has 153 MA's), (7, 22533), (11, 22653), (12, 22680), (14, 22686),

Gene: DeejaClivia_59 Start: 19751, Stop: 19957, Start Num: 6

Candidate Starts for DeejaClivia_59:

(Start: 6 @19751 has 153 MA's), (7, 19781), (11, 19901), (12, 19928), (14, 19934),

Gene: Delilah_69 Start: 22650, Stop: 22856, Start Num: 6

Candidate Starts for Delilah_69:

(3, 22521), (Start: 6 @22650 has 153 MA's), (7, 22680), (11, 22800), (12, 22827), (14, 22833),

Gene: Delylah_71 Start: 22428, Stop: 22634, Start Num: 6

Candidate Starts for Delylah_71:

(3, 22299), (Start: 6 @22428 has 153 MA's), (7, 22458), (11, 22578), (12, 22605), (14, 22611),

Gene: Demodog_73 Start: 24709, Stop: 24912, Start Num: 6

Candidate Starts for Demodog_73:

(1, 24502), (2, 24514), (3, 24580), (Start: 6 @24709 has 153 MA's), (7, 24739), (11, 24859), (12, 24886), (15, 24904),

Gene: Derek_68 Start: 21927, Stop: 22133, Start Num: 6

Candidate Starts for Derek_68:

(3, 21798), (Start: 6 @21927 has 153 MA's), (7, 21957), (11, 22077), (12, 22104), (14, 22110),

Gene: Dietrick_62 Start: 20768, Stop: 20974, Start Num: 6

Candidate Starts for Dietrick_62:

(3, 20639), (Start: 6 @20768 has 153 MA's), (7, 20798), (11, 20918), (12, 20945), (14, 20951),

Gene: DirtMonster_63 Start: 22094, Stop: 22300, Start Num: 6

Candidate Starts for DirtMonster_63:

(Start: 6 @22094 has 153 MA's), (7, 22124), (11, 22244), (12, 22271), (14, 22277),

Gene: Domi_62 Start: 21538, Stop: 21744, Start Num: 6

Candidate Starts for Domi_62:

(1, 21331), (2, 21343), (3, 21409), (Start: 6 @21538 has 153 MA's), (7, 21568), (11, 21688), (12, 21715), (14, 21721),

Gene: DrPhinkDaddy_68 Start: 22702, Stop: 22908, Start Num: 6

Candidate Starts for DrPhinkDaddy_68:

(3, 22573), (Start: 6 @22702 has 153 MA's), (7, 22732), (11, 22852), (12, 22879), (14, 22885),

Gene: EasyJones_70 Start: 22253, Stop: 22459, Start Num: 6

Candidate Starts for EasyJones_70:

(Start: 6 @22253 has 153 MA's), (7, 22283), (11, 22403), (12, 22430), (14, 22436),

Gene: EggyFarm_74 Start: 24148, Stop: 24351, Start Num: 6

Candidate Starts for EggyFarm_74:

(4, 24025), (5, 24070), (Start: 6 @24148 has 153 MA's), (7, 24178), (11, 24298), (12, 24325), (15, 24343),

Gene: EmToTheThree_72 Start: 24122, Stop: 24328, Start Num: 6

Candidate Starts for EmToTheThree_72:

(3, 23993), (Start: 6 @24122 has 153 MA's), (7, 24152), (11, 24272), (12, 24299), (14, 24305),

Gene: EmmaElysia_67 Start: 21166, Stop: 21372, Start Num: 6

Candidate Starts for EmmaElysia_67:

(3, 21037), (Start: 6 @21166 has 153 MA's), (7, 21196), (11, 21316), (12, 21343), (14, 21349),

Gene: Erdmann_69 Start: 22650, Stop: 22856, Start Num: 6

Candidate Starts for Erdmann_69:

(3, 22521), (Start: 6 @22650 has 153 MA's), (7, 22680), (11, 22800), (12, 22827), (14, 22833),

Gene: ErnieJ_66 Start: 21597, Stop: 21803, Start Num: 6

Candidate Starts for ErnieJ_66:

(Start: 6 @21597 has 153 MA's), (7, 21627), (11, 21747), (12, 21774), (14, 21780),

Gene: Essence_67 Start: 21450, Stop: 21656, Start Num: 6

Candidate Starts for Essence_67:

(3, 21321), (Start: 6 @21450 has 153 MA's), (7, 21480), (11, 21600), (12, 21627), (14, 21633),

Gene: Ewok_69 Start: 22653, Stop: 22859, Start Num: 6

Candidate Starts for Ewok_69:

(3, 22524), (Start: 6 @22653 has 153 MA's), (7, 22683), (11, 22803), (12, 22830), (14, 22836),

Gene: Flabslab_65 Start: 21672, Stop: 21878, Start Num: 6

Candidate Starts for Flabslab_65:

(3, 21543), (Start: 6 @21672 has 153 MA's), (7, 21702), (11, 21822), (12, 21849), (14, 21855),

Gene: Fludd_68 Start: 21525, Stop: 21731, Start Num: 6

Candidate Starts for Fludd_68:

(3, 21396), (Start: 6 @21525 has 153 MA's), (7, 21555), (11, 21675), (12, 21702), (14, 21708),

Gene: Fongie_67 Start: 22869, Stop: 23075, Start Num: 6

Candidate Starts for Fongie_67:

(3, 22740), (Start: 6 @22869 has 153 MA's), (7, 22899), (11, 23019), (12, 23046), (14, 23052),

Gene: FoxtrotP1_69 Start: 23037, Stop: 23243, Start Num: 6

Candidate Starts for FoxtrotP1_69:

(3, 22908), (Start: 6 @23037 has 153 MA's), (7, 23067), (11, 23187), (12, 23214), (14, 23220),

Gene: FrayBell_75 Start: 24164, Stop: 24367, Start Num: 6

Candidate Starts for FrayBell_75:

(3, 24035), (Start: 6 @24164 has 153 MA's), (7, 24194), (11, 24314), (12, 24341), (15, 24359),

Gene: FudgeTart_70 Start: 22572, Stop: 22778, Start Num: 6

Candidate Starts for FudgeTart_70:

(3, 22443), (Start: 6 @22572 has 153 MA's), (7, 22602), (11, 22722), (12, 22749), (14, 22755),

Gene: Gabriel_70 Start: 21829, Stop: 22035, Start Num: 6

Candidate Starts for Gabriel_70:

(3, 21700), (Start: 6 @21829 has 153 MA's), (7, 21859), (11, 21979), (12, 22006), (14, 22012),

Gene: Gamgam_68 Start: 21596, Stop: 21802, Start Num: 6

Candidate Starts for Gamgam_68:

(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Ghost_67 Start: 21596, Stop: 21802, Start Num: 6

Candidate Starts for Ghost_67:

(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Gizmo_72 Start: 22333, Stop: 22539, Start Num: 6

Candidate Starts for Gizmo_72:

(3, 22204), (Start: 6 @22333 has 153 MA's), (7, 22363), (11, 22483), (12, 22510), (14, 22516),

Gene: GlutenPhree_65 Start: 21596, Stop: 21802, Start Num: 6

Candidate Starts for GlutenPhree_65:

(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Grasshills_74 Start: 24148, Stop: 24351, Start Num: 6

Candidate Starts for Grasshills_74:

(4, 24025), (5, 24070), (Start: 6 @24148 has 153 MA's), (7, 24178), (11, 24298), (12, 24325), (15, 24343),

Gene: Grungle_58 Start: 19785, Stop: 19991, Start Num: 6

Candidate Starts for Grungle_58:

(Start: 6 @19785 has 153 MA's), (7, 19815), (11, 19935), (12, 19962), (14, 19968),

Gene: Guwapp_67 Start: 21691, Stop: 21897, Start Num: 6

Candidate Starts for Guwapp_67:

(3, 21562), (Start: 6 @21691 has 153 MA's), (7, 21721), (11, 21841), (12, 21868), (14, 21874),

Gene: Halldule_61 Start: 20362, Stop: 20568, Start Num: 6

Candidate Starts for Halldule_61:

(Start: 6 @20362 has 153 MA's), (7, 20392), (11, 20512), (12, 20539), (14, 20545),

Gene: HyRo_63 Start: 21714, Stop: 21920, Start Num: 6

Candidate Starts for HyRo_63:

(Start: 6 @21714 has 153 MA's), (7, 21744), (11, 21864), (12, 21891), (14, 21897),

Gene: I3_72 Start: 22560, Stop: 22766, Start Num: 6

Candidate Starts for I3_72:

(4, 22437), (Start: 6 @22560 has 153 MA's), (7, 22590), (11, 22710), (12, 22737), (14, 22743),

Gene: IkeLoa_63 Start: 21335, Stop: 21541, Start Num: 6

Candidate Starts for IkeLoa_63:

(1, 21128), (2, 21140), (3, 21206), (Start: 6 @21335 has 153 MA's), (7, 21365), (11, 21485), (12, 21512), (14, 21518),

Gene: InigoMontoya_69 Start: 21557, Stop: 21763, Start Num: 6

Candidate Starts for InigoMontoya_69:

(3, 21428), (Start: 6 @21557 has 153 MA's), (7, 21587), (11, 21707), (12, 21734), (14, 21740),

Gene: InterFolia_78 Start: 25102, Stop: 25308, Start Num: 6

Candidate Starts for InterFolia_78:

(3, 24973), (Start: 6 @25102 has 153 MA's), (7, 25132), (11, 25252), (12, 25279), (14, 25285),

Gene: Iota_63 Start: 21691, Stop: 21897, Start Num: 6

Candidate Starts for Iota_63:

(1, 21484), (2, 21496), (3, 21562), (Start: 6 @21691 has 153 MA's), (7, 21721), (11, 21841), (12, 21868), (14, 21874),

Gene: Issimir_68 Start: 22593, Stop: 22799, Start Num: 6

Candidate Starts for Issimir_68:

(1, 22386), (3, 22464), (Start: 6 @22593 has 153 MA's), (7, 22623), (11, 22743), (12, 22770), (14, 22776),

Gene: Izajani_69 Start: 22666, Stop: 22872, Start Num: 6

Candidate Starts for Izajani_69:

(3, 22537), (Start: 6 @22666 has 153 MA's), (7, 22696), (11, 22816), (12, 22843), (14, 22849),

Gene: JPickles_67 Start: 20790, Stop: 20996, Start Num: 6

Candidate Starts for JPickles_67:

(3, 20661), (Start: 6 @20790 has 153 MA's), (7, 20820), (11, 20940), (12, 20967), (14, 20973),

Gene: Janiyra_70 Start: 22355, Stop: 22561, Start Num: 6

Candidate Starts for Janiyra_70:

(3, 22226), (Start: 6 @22355 has 153 MA's), (7, 22385), (11, 22505), (12, 22532), (14, 22538),

Gene: JayJay_75 Start: 23147, Stop: 23353, Start Num: 6

Candidate Starts for JayJay_75:

(1, 22940), (2, 22952), (3, 23018), (Start: 6 @23147 has 153 MA's), (7, 23177), (11, 23297), (12, 23324), (14, 23330),

Gene: Jaygup_68 Start: 21592, Stop: 21798, Start Num: 6

Candidate Starts for Jaygup_68:

(3, 21463), (Start: 6 @21592 has 153 MA's), (7, 21622), (11, 21742), (12, 21769), (14, 21775),

Gene: Jedediah_70 Start: 22093, Stop: 22299, Start Num: 6

Candidate Starts for Jedediah_70:

(3, 21964), (Start: 6 @22093 has 153 MA's), (7, 22123), (11, 22243), (12, 22270), (14, 22276),

Gene: Jemmno_68 Start: 21596, Stop: 21802, Start Num: 6

Candidate Starts for Jemmno_68:

(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Jessibeth14_67 Start: 22112, Stop: 22318, Start Num: 6

Candidate Starts for Jessibeth14_67:

(1, 21905), (2, 21917), (3, 21983), (Start: 6 @22112 has 153 MA's), (7, 22142), (11, 22262), (12, 22289), (14, 22295),

Gene: Jezreel_66 Start: 21909, Stop: 22115, Start Num: 6

Candidate Starts for Jezreel_66:

(3, 21780), (Start: 6 @21909 has 153 MA's), (7, 21939), (11, 22059), (12, 22086), (14, 22092),

Gene: JigglyPuff_73 Start: 24102, Stop: 24305, Start Num: 6

Candidate Starts for JigglyPuff_73:

(1, 23895), (2, 23907), (3, 23973), (Start: 6 @24102 has 153 MA's), (7, 24132), (11, 24252), (12, 24279), (15, 24297),

Gene: JulietS_61 Start: 20213, Stop: 20419, Start Num: 6

Candidate Starts for JulietS_61:

(Start: 6 @20213 has 153 MA's), (7, 20243), (11, 20363), (12, 20390), (14, 20396),

Gene: JustHall_64 Start: 21915, Stop: 22121, Start Num: 6

Candidate Starts for JustHall_64:

(3, 21786), (Start: 6 @21915 has 153 MA's), (7, 21945), (11, 22065), (12, 22092), (14, 22098),

Gene: Kamryn_68 Start: 22269, Stop: 22475, Start Num: 6

Candidate Starts for Kamryn_68:

(3, 22140), (Start: 6 @22269 has 153 MA's), (7, 22299), (11, 22419), (12, 22446), (14, 22452),

Gene: Khaleesi_68 Start: 22397, Stop: 22603, Start Num: 6

Candidate Starts for Khaleesi_68:

(3, 22268), (Start: 6 @22397 has 153 MA's), (7, 22427), (11, 22547), (12, 22574), (14, 22580),

Gene: Koguma_65 Start: 20431, Stop: 20637, Start Num: 6

Candidate Starts for Koguma_65:

(Start: 6 @20431 has 153 MA's), (7, 20461), (11, 20581), (12, 20608), (14, 20614),

Gene: LRRHood_64 Start: 22354, Stop: 22560, Start Num: 6

Candidate Starts for LRRHood_64:

(Start: 6 @22354 has 153 MA's), (7, 22384), (11, 22504), (12, 22531), (14, 22537),

Gene: Latch_68 Start: 21596, Stop: 21802, Start Num: 6

Candidate Starts for Latch_68:

(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Lee7_66 Start: 22328, Stop: 22534, Start Num: 6

Candidate Starts for Lee7_66:

(1, 22121), (2, 22133), (3, 22199), (Start: 6 @22328 has 153 MA's), (7, 22358), (11, 22478), (12, 22505), (14, 22511),

Gene: Lethe_68 Start: 22591, Stop: 22797, Start Num: 6

Candidate Starts for Lethe_68:

(1, 22384), (2, 22396), (3, 22462), (Start: 6 @22591 has 153 MA's), (7, 22621), (11, 22741), (12, 22768), (14, 22774),

Gene: LifeSavor_67 Start: 21315, Stop: 21521, Start Num: 6

Candidate Starts for LifeSavor_67:

(3, 21186), (Start: 6 @21315 has 153 MA's), (7, 21345), (11, 21465), (12, 21492), (14, 21498),

Gene: LinStu_68 Start: 23060, Stop: 23266, Start Num: 6

Candidate Starts for LinStu_68:

(Start: 6 @23060 has 153 MA's), (7, 23090), (11, 23210), (12, 23237), (14, 23243),

Gene: Littleton_68 Start: 21596, Stop: 21802, Start Num: 6

Candidate Starts for Littleton_68:

(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Loanshark_69 Start: 22650, Stop: 22856, Start Num: 6

Candidate Starts for Loanshark_69:

(3, 22521), (Start: 6 @22650 has 153 MA's), (7, 22680), (11, 22800), (12, 22827), (14, 22833),

Gene: LolaVince_71 Start: 23811, Stop: 24017, Start Num: 6

Candidate Starts for LolaVince_71:

(3, 23682), (Start: 6 @23811 has 153 MA's), (7, 23841), (11, 23961), (12, 23988), (14, 23994),

Gene: LordLeafolot_73 Start: 24163, Stop: 24366, Start Num: 6

Candidate Starts for LordLeafolot_73:

(3, 24034), (Start: 6 @24163 has 153 MA's), (7, 24193), (11, 24313), (12, 24340), (15, 24358),

Gene: Lukilu_60 Start: 21556, Stop: 21762, Start Num: 6

Candidate Starts for Lukilu_60:

(Start: 6 @21556 has 153 MA's), (7, 21586), (11, 21706), (12, 21733), (14, 21739),

Gene: Maby2021_69 Start: 22331, Stop: 22537, Start Num: 6

Candidate Starts for Maby2021_69:

(3, 22202), (Start: 6 @22331 has 153 MA's), (7, 22361), (11, 22481), (12, 22508), (14, 22514),

Gene: Mangeria_72 Start: 23674, Stop: 23880, Start Num: 6

Candidate Starts for Mangeria_72:

(3, 23545), (Start: 6 @23674 has 153 MA's), (7, 23704), (11, 23824), (12, 23851), (14, 23857),

Gene: Matsumoto_66 Start: 21557, Stop: 21763, Start Num: 6

Candidate Starts for Matsumoto_66:

(3, 21428), (Start: 6 @21557 has 153 MA's), (7, 21587), (11, 21707), (12, 21734), (14, 21740),

Gene: McGee_68 Start: 20780, Stop: 20986, Start Num: 6

Candidate Starts for McGee_68:

(3, 20651), (Start: 6 @20780 has 153 MA's), (7, 20810), (11, 20930), (12, 20957), (14, 20963),

Gene: McWolfish_67 Start: 22078, Stop: 22284, Start Num: 6

Candidate Starts for McWolfish_67:

(3, 21949), (Start: 6 @22078 has 153 MA's), (7, 22108), (11, 22228), (12, 22255), (14, 22261),

Gene: Megamind_68 Start: 22316, Stop: 22522, Start Num: 6

Candidate Starts for Megamind_68:

(3, 22187), (Start: 6 @22316 has 153 MA's), (7, 22346), (11, 22466), (12, 22493), (14, 22499),

Gene: Melpomini_63 Start: 20665, Stop: 20871, Start Num: 6

Candidate Starts for Melpomini_63:

(Start: 6 @20665 has 153 MA's), (7, 20695), (11, 20815), (12, 20842), (14, 20848),

Gene: MikeLiesIn_69 Start: 22663, Stop: 22869, Start Num: 6
Candidate Starts for MikeLiesIn_69:
(3, 22534), (Start: 6 @22663 has 153 MA's), (7, 22693), (11, 22813), (12, 22840), (14, 22846),

Gene: Mikro_66 Start: 23137, Stop: 23343, Start Num: 6
Candidate Starts for Mikro_66:
(3, 23008), (Start: 6 @23137 has 153 MA's), (7, 23167), (11, 23287), (12, 23314), (14, 23320),

Gene: MoMoMixon_69 Start: 22748, Stop: 22954, Start Num: 6
Candidate Starts for MoMoMixon_69:
(3, 22619), (Start: 6 @22748 has 153 MA's), (7, 22778), (11, 22898), (12, 22925), (14, 22931),

Gene: Momo_67 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Momo_67:
(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Morizzled23_70 Start: 22280, Stop: 22486, Start Num: 6
Candidate Starts for Morizzled23_70:
(Start: 6 @22280 has 153 MA's), (7, 22310), (11, 22430), (12, 22457), (14, 22463),

Gene: Myrna_53 Start: 21157, Stop: 21366, Start Num: 6
Candidate Starts for Myrna_53:
(Start: 6 @21157 has 153 MA's), (7, 21187), (10, 21307), (13, 21340), (16, 21358),

Gene: Naija_67 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Naija_67:
(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Napoleon13_65 Start: 20589, Stop: 20795, Start Num: 6
Candidate Starts for Napoleon13_65:
(Start: 6 @20589 has 153 MA's), (7, 20619), (11, 20739), (12, 20766), (14, 20772),

Gene: Naval22_74 Start: 23673, Stop: 23879, Start Num: 6
Candidate Starts for Naval22_74:
(3, 23544), (Start: 6 @23673 has 153 MA's), (7, 23703), (11, 23823), (12, 23850), (14, 23856),

Gene: NedWong_70 Start: 22650, Stop: 22856, Start Num: 6
Candidate Starts for NedWong_70:
(3, 22521), (Start: 6 @22650 has 153 MA's), (7, 22680), (11, 22800), (12, 22827), (14, 22833),

Gene: Ngannou_63 Start: 20578, Stop: 20784, Start Num: 6
Candidate Starts for Ngannou_63:
(3, 20449), (Start: 6 @20578 has 153 MA's), (7, 20608), (11, 20728), (12, 20755), (14, 20761),

Gene: Nidhogg_69 Start: 22504, Stop: 22710, Start Num: 6
Candidate Starts for Nidhogg_69:
(3, 22375), (Start: 6 @22504 has 153 MA's), (7, 22534), (11, 22654), (12, 22681), (14, 22687),

Gene: NoodleTree_69 Start: 22511, Stop: 22714, Start Num: 6
Candidate Starts for NoodleTree_69:
(1, 22304), (2, 22316), (3, 22382), (Start: 6 @22511 has 153 MA's), (7, 22541), (11, 22661), (12, 22688), (15, 22706),

Gene: Norm_69 Start: 22651, Stop: 22857, Start Num: 6

Candidate Starts for Norm_69:

(3, 22522), (Start: 6 @22651 has 153 MA's), (7, 22681), (11, 22801), (12, 22828), (14, 22834),

Gene: NuevoMundo_74 Start: 23710, Stop: 23916, Start Num: 6

Candidate Starts for NuevoMundo_74:

(1, 23503), (2, 23515), (3, 23581), (Start: 6 @23710 has 153 MA's), (7, 23740), (11, 23860), (12, 23887), (14, 23893),

Gene: ParkTD_69 Start: 22650, Stop: 22856, Start Num: 6

Candidate Starts for ParkTD_69:

(3, 22521), (Start: 6 @22650 has 153 MA's), (7, 22680), (11, 22800), (12, 22827), (14, 22833),

Gene: Patter_68 Start: 21613, Stop: 21819, Start Num: 6

Candidate Starts for Patter_68:

(3, 21484), (Start: 6 @21613 has 153 MA's), (7, 21643), (11, 21763), (12, 21790), (14, 21796),

Gene: Phlegm_70 Start: 21596, Stop: 21802, Start Num: 6

Candidate Starts for Phlegm_70:

(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Phox_66 Start: 23036, Stop: 23242, Start Num: 6

Candidate Starts for Phox_66:

(Start: 6 @23036 has 153 MA's), (7, 23066), (11, 23186), (12, 23213), (14, 23219),

Gene: Phusco_68 Start: 22406, Stop: 22612, Start Num: 6

Candidate Starts for Phusco_68:

(3, 22277), (Start: 6 @22406 has 153 MA's), (7, 22436), (11, 22556), (12, 22583), (14, 22589),

Gene: Pinkcreek_60 Start: 20614, Stop: 20820, Start Num: 6

Candidate Starts for Pinkcreek_60:

(Start: 6 @20614 has 153 MA's), (7, 20644), (11, 20764), (12, 20791), (14, 20797),

Gene: Pivoine_67 Start: 21596, Stop: 21802, Start Num: 6

Candidate Starts for Pivoine_67:

(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Primadonna_64 Start: 21995, Stop: 22201, Start Num: 6

Candidate Starts for Primadonna_64:

(3, 21866), (Start: 6 @21995 has 153 MA's), (7, 22025), (11, 22145), (12, 22172), (14, 22178),

Gene: PurduePete_68 Start: 22374, Stop: 22580, Start Num: 6

Candidate Starts for PurduePete_68:

(3, 22245), (Start: 6 @22374 has 153 MA's), (7, 22404), (11, 22524), (12, 22551), (14, 22557),

Gene: QBert_63 Start: 22445, Stop: 22651, Start Num: 6

Candidate Starts for QBert_63:

(1, 22238), (2, 22250), (3, 22316), (Start: 6 @22445 has 153 MA's), (7, 22475), (11, 22595), (12, 22622), (14, 22628),

Gene: Quasimodo_68 Start: 22614, Stop: 22820, Start Num: 6

Candidate Starts for Quasimodo_68:

(3, 22485), (Start: 6 @22614 has 153 MA's), (7, 22644), (11, 22764), (12, 22791), (14, 22797),

Gene: Rabinovish_67 Start: 23332, Stop: 23538, Start Num: 6

Candidate Starts for Rabinovish_67:

(Start: 6 @23332 has 153 MA's), (7, 23362), (11, 23482), (12, 23509), (14, 23515),

Gene: Rahel_69 Start: 21965, Stop: 22171, Start Num: 6

Candidate Starts for Rahel_69:

(3, 21836), (Start: 6 @21965 has 153 MA's), (7, 21995), (11, 22115), (12, 22142), (14, 22148),

Gene: Rizal_66 Start: 21567, Stop: 21773, Start Num: 6

Candidate Starts for Rizal_66:

(3, 21438), (Start: 6 @21567 has 153 MA's), (7, 21597), (11, 21717), (12, 21744), (14, 21750),

Gene: RoMag_63 Start: 21569, Stop: 21775, Start Num: 6

Candidate Starts for RoMag_63:

(1, 21362), (2, 21374), (3, 21440), (Start: 6 @21569 has 153 MA's), (7, 21599), (11, 21719), (12, 21746), (14, 21752),

Gene: Ronan_62 Start: 19853, Stop: 20059, Start Num: 6

Candidate Starts for Ronan_62:

(Start: 6 @19853 has 153 MA's), (7, 19883), (11, 20003), (12, 20030), (14, 20036),

Gene: Roots515_67 Start: 22051, Stop: 22257, Start Num: 6

Candidate Starts for Roots515_67:

(Start: 6 @22051 has 153 MA's), (7, 22081), (11, 22201), (12, 22228), (14, 22234),

Gene: SVoro_67 Start: 22644, Stop: 22850, Start Num: 6

Candidate Starts for SVoro_67:

(3, 22515), (Start: 6 @22644 has 153 MA's), (7, 22674), (11, 22794), (12, 22821), (14, 22827),

Gene: Salacia_71 Start: 22708, Stop: 22914, Start Num: 6

Candidate Starts for Salacia_71:

(3, 22579), (Start: 6 @22708 has 153 MA's), (7, 22738), (11, 22858), (12, 22885), (14, 22891),

Gene: Sauce_69 Start: 22254, Stop: 22460, Start Num: 6

Candidate Starts for Sauce_69:

(Start: 6 @22254 has 153 MA's), (7, 22284), (11, 22404), (12, 22431), (14, 22437),

Gene: ScoobyDoobyDoo_47 Start: 17127, Stop: 17333, Start Num: 6

Candidate Starts for ScoobyDoobyDoo_47:

(Start: 6 @17127 has 153 MA's), (8, 17166), (9, 17193), (13, 17310), (15, 17325),

Gene: ScottMcG_66 Start: 22428, Stop: 22634, Start Num: 6

Candidate Starts for ScottMcG_66:

(3, 22299), (Start: 6 @22428 has 153 MA's), (7, 22458), (11, 22578), (12, 22605), (14, 22611),

Gene: Sebata_69 Start: 23179, Stop: 23385, Start Num: 6

Candidate Starts for Sebata_69:

(Start: 6 @23179 has 153 MA's), (7, 23209), (11, 23329), (12, 23356), (14, 23362),

Gene: Shaqnato_62 Start: 20776, Stop: 20982, Start Num: 6

Candidate Starts for Shaqnato_62:

(Start: 6 @20776 has 153 MA's), (7, 20806), (11, 20926), (12, 20953), (14, 20959),

Gene: Shelob_71 Start: 23642, Stop: 23848, Start Num: 6

Candidate Starts for Shelob_71:

(3, 23513), (Start: 6 @23642 has 153 MA's), (7, 23672), (11, 23792), (12, 23819), (14, 23825),

Gene: ShiaLabeouf_68 Start: 22033, Stop: 22239, Start Num: 6

Candidate Starts for ShiaLabeouf_68:

(3, 21904), (Start: 6 @22033 has 153 MA's), (7, 22063), (11, 22183), (12, 22210), (14, 22216),

Gene: Shifa_60 Start: 21161, Stop: 21367, Start Num: 6

Candidate Starts for Shifa_60:

(Start: 6 @21161 has 153 MA's), (7, 21191), (11, 21311), (12, 21338), (14, 21344),

Gene: Shnickers_68 Start: 21592, Stop: 21798, Start Num: 6

Candidate Starts for Shnickers_68:

(3, 21463), (Start: 6 @21592 has 153 MA's), (7, 21622), (11, 21742), (12, 21769), (14, 21775),

Gene: SilverDipper_69 Start: 21596, Stop: 21802, Start Num: 6

Candidate Starts for SilverDipper_69:

(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: SmallFry_68 Start: 21592, Stop: 21798, Start Num: 6

Candidate Starts for SmallFry_68:

(3, 21463), (Start: 6 @21592 has 153 MA's), (7, 21622), (11, 21742), (12, 21769), (14, 21775),

Gene: Spec_65 Start: 21736, Stop: 21942, Start Num: 6

Candidate Starts for Spec_65:

(3, 21607), (Start: 6 @21736 has 153 MA's), (7, 21766), (11, 21886), (12, 21913), (14, 21919),

Gene: Specks_74 Start: 24125, Stop: 24331, Start Num: 6

Candidate Starts for Specks_74:

(1, 23918), (2, 23930), (3, 23996), (Start: 6 @24125 has 153 MA's), (7, 24155), (11, 24275), (12, 24302), (14, 24308),

Gene: Sprinklers_65 Start: 21626, Stop: 21832, Start Num: 6

Candidate Starts for Sprinklers_65:

(1, 21419), (2, 21431), (3, 21497), (Start: 6 @21626 has 153 MA's), (7, 21656), (11, 21776), (12, 21803), (14, 21809),

Gene: SrishMeg2525_68 Start: 22361, Stop: 22567, Start Num: 6

Candidate Starts for SrishMeg2525_68:

(3, 22232), (Start: 6 @22361 has 153 MA's), (7, 22391), (11, 22511), (12, 22538), (14, 22544),

Gene: StephanieG_68 Start: 23026, Stop: 23232, Start Num: 6

Candidate Starts for StephanieG_68:

(1, 22819), (2, 22831), (3, 22897), (Start: 6 @23026 has 153 MA's), (7, 23056), (11, 23176), (12, 23203), (14, 23209),

Gene: Stubby_63 Start: 21945, Stop: 22151, Start Num: 6

Candidate Starts for Stubby_63:

(Start: 6 @21945 has 153 MA's), (7, 21975), (11, 22095), (12, 22122), (14, 22128),

Gene: StubbySaigey_69 Start: 21290, Stop: 21496, Start Num: 6

Candidate Starts for StubbySaigey_69:

(3, 21161), (Start: 6 @21290 has 153 MA's), (7, 21320), (11, 21440), (12, 21467), (14, 21473),

Gene: Tainan_73 Start: 24163, Stop: 24366, Start Num: 6

Candidate Starts for Tainan_73:

(3, 24034), (Start: 6 @24163 has 153 MA's), (7, 24193), (11, 24313), (12, 24340), (15, 24358),

Gene: Teardrop_68 Start: 21449, Stop: 21655, Start Num: 6

Candidate Starts for Teardrop_68:

(1, 21242), (2, 21254), (3, 21320), (Start: 6 @21449 has 153 MA's), (7, 21479), (11, 21599), (12, 21626), (14, 21632),

Gene: TinyTim_69 Start: 22650, Stop: 22856, Start Num: 6

Candidate Starts for TinyTim_69:

(3, 22521), (Start: 6 @22650 has 153 MA's), (7, 22680), (11, 22800), (12, 22827), (14, 22833),

Gene: Tortoise16_66 Start: 22100, Stop: 22306, Start Num: 6

Candidate Starts for Tortoise16_66:

(3, 21971), (Start: 6 @22100 has 153 MA's), (7, 22130), (11, 22250), (12, 22277), (14, 22283),

Gene: Trinitium_64 Start: 21111, Stop: 21317, Start Num: 6

Candidate Starts for Trinitium_64:

(1, 20904), (2, 20916), (3, 20982), (Start: 6 @21111 has 153 MA's), (7, 21141), (11, 21261), (12, 21288), (14, 21294),

Gene: Turret_63 Start: 20777, Stop: 20983, Start Num: 6

Candidate Starts for Turret_63:

(3, 20648), (Start: 6 @20777 has 153 MA's), (7, 20807), (11, 20927), (12, 20954), (14, 20960),

Gene: Tyke_70 Start: 23004, Stop: 23210, Start Num: 6

Candidate Starts for Tyke_70:

(3, 22875), (Start: 6 @23004 has 153 MA's), (7, 23034), (11, 23154), (12, 23181), (14, 23187),

Gene: ValleyTerrace_68 Start: 21596, Stop: 21802, Start Num: 6

Candidate Starts for ValleyTerrace_68:

(3, 21467), (Start: 6 @21596 has 153 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Willis_69 Start: 22545, Stop: 22751, Start Num: 6

Candidate Starts for Willis_69:

(3, 22416), (Start: 6 @22545 has 153 MA's), (7, 22575), (11, 22695), (12, 22722), (14, 22728),

Gene: Yassified_65 Start: 21613, Stop: 21819, Start Num: 6

Candidate Starts for Yassified_65:

(Start: 6 @21613 has 153 MA's), (7, 21643), (11, 21763), (12, 21790), (14, 21796),

Gene: YemiJoy2021_69 Start: 22331, Stop: 22537, Start Num: 6

Candidate Starts for YemiJoy2021_69:

(3, 22202), (Start: 6 @22331 has 153 MA's), (7, 22361), (11, 22481), (12, 22508), (14, 22514),

Gene: YoungMoneyMata_68 Start: 21347, Stop: 21553, Start Num: 6

Candidate Starts for YoungMoneyMata_68:

(3, 21218), (Start: 6 @21347 has 153 MA's), (7, 21377), (11, 21497), (12, 21524), (14, 21530),

Gene: Yucca_68 Start: 22572, Stop: 22778, Start Num: 6

Candidate Starts for Yucca_68:

(3, 22443), (Start: 6 @22572 has 153 MA's), (7, 22602), (11, 22722), (12, 22749), (14, 22755),

Gene: Zalkecks_70 Start: 22335, Stop: 22541, Start Num: 6

Candidate Starts for Zalkecks_70:

(3, 22206), (Start: 6 @22335 has 153 MA's), (7, 22365), (11, 22485), (12, 22512), (14, 22518),

Gene: Zeenon_70 Start: 22637, Stop: 22843, Start Num: 6

Candidate Starts for Zeenon_70:

(3, 22508), (Start: 6 @22637 has 153 MA's), (7, 22667), (11, 22787), (12, 22814), (14, 22820),

Gene: ZygoTaiga_68 Start: 22651, Stop: 22857, Start Num: 6

Candidate Starts for ZygoTaiga_68:

(3, 22522), (Start: 6 @22651 has 153 MA's), (7, 22681), (11, 22801), (12, 22828), (14, 22834),