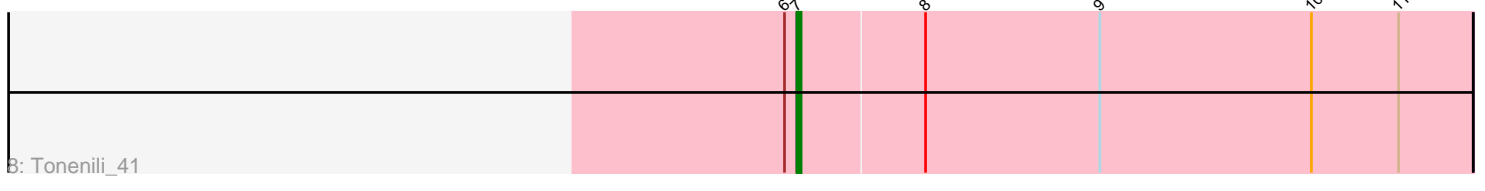
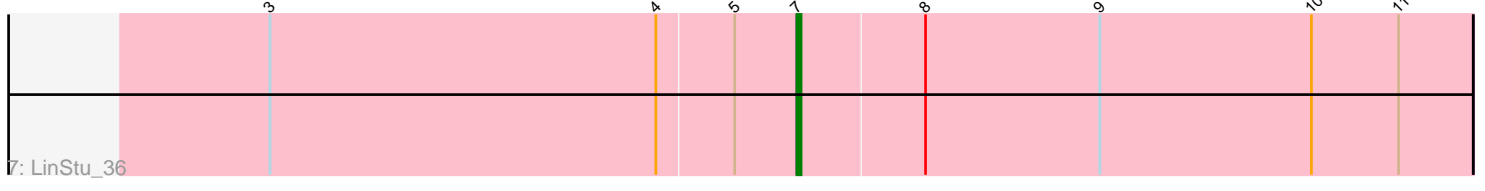
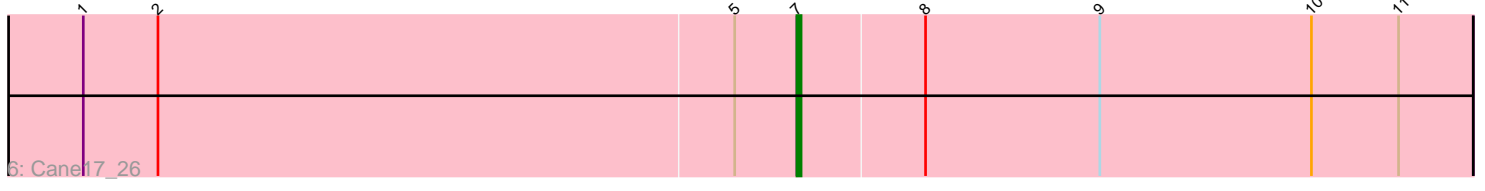
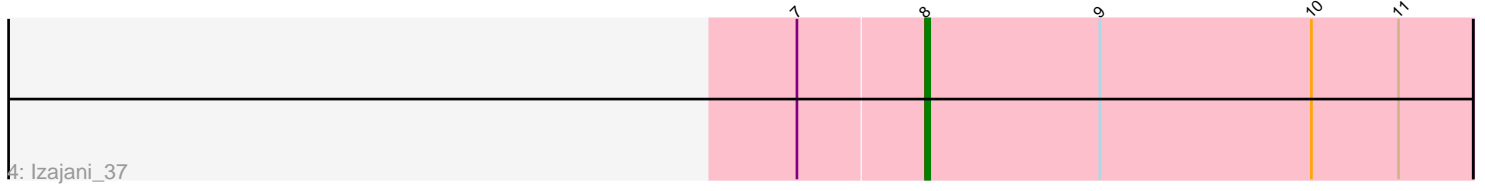
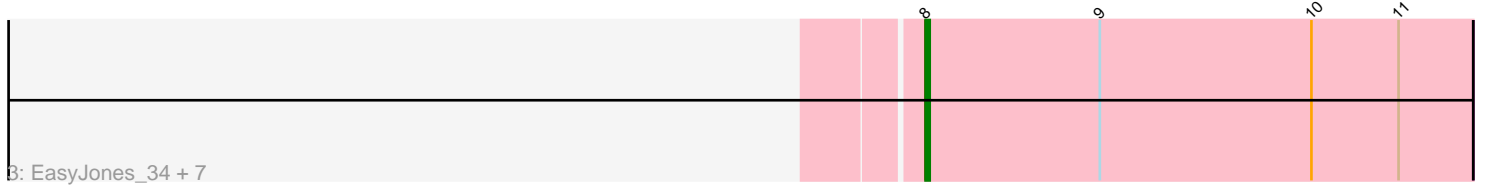
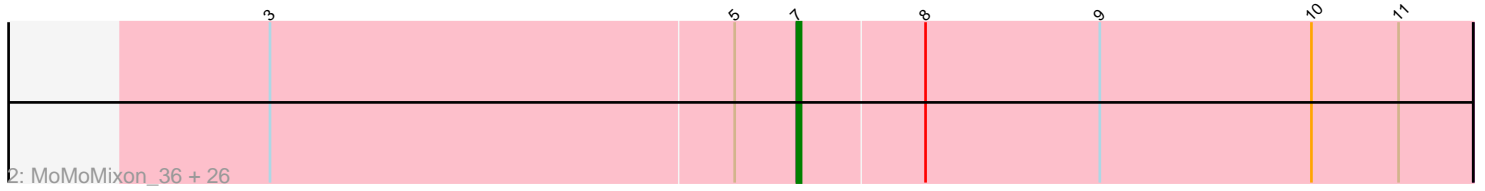
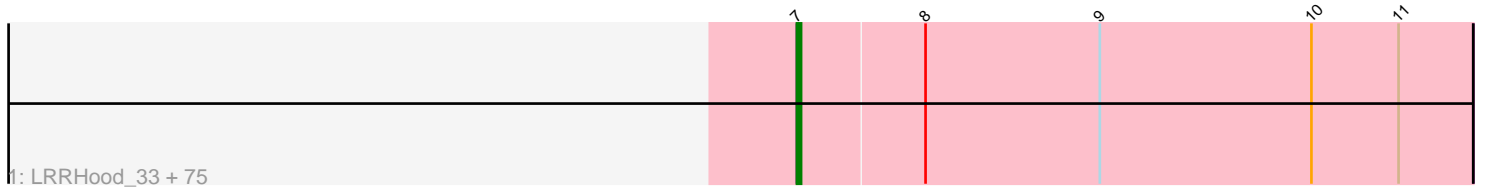


Pham 154580



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 154580 Report

This analysis was run 04/12/24 on database version 558.

Pham number 154580 has 117 members, 5 are drafts.

Phages represented in each track:

- Track 1 : LRRHood_33, Gizmo_38, Pio_39, Rahel_36, MikeLiesIn_36, Maby2021_37, Catera_34, ArcherS7_35, Grungle_29, Zeenon_38, McWolfish_35, Ewok_36, Darko_35, YemiJoy2021_37, Fludd_35, Bangla1971_35, Kboogie_36, Pleione_38, Asterius_34, Lee7_35, Morizzled23_35, Shrimp_36, EmToTheThree_39, Cactojaque_33, Yucca_36, PurduePete_35, Sprinklers_36, Jessibeth14_35, Rizal_34, NedWong_37, CharlieB_36, Koguma_32, Pier_38, Bxz1_36, Zalkecks_38, SrishMeg2525_35, Daffodil_38, TinyTim_36, Bread_37, Phusco_36, Shaqnato_32, Delilah_36, StubbySaigey_35, Concombre_35, Khaleesi_35, ParkTD_35, Burrough_36, Derek_37, FoxtrotP1_36, Loanshark_36, Breeniome_36, Salacia_38, Gabriel_36, EmmaElysia_34, Erdmann_37, Cali_36, Yassified_33, JulietS_31, FudgeTart_37, DrPhinkDaddy_36, Willis_36, Bipolarisk_35, Naval22_38, BackyardAgain_33, BadAgartude_37, RoMag_31, Wally_35, Mikro_34, Quasimodo_36, Lukilu_29, ZygoTaiga_36, Teardrop_35, Megamind_36, BananaFence_37, Ava3_37, Bonray_36
- Track 2 : MoMoMixon_36, Specks_40, Blackbrain_33, Mangeria_38, Phox_34, ChickenPhender_34, JustHall_34, Dandelion_39, Turret_33, Dietrick_30, I3_37, Trinitium_34, Spud_37, NuevoMundo_38, ErnieJ_36, Caravan_33, Basquiat_34, ScottMcG_35, Napoleon13_34, Kamryn_35, Colt_28, Nidhogg_36, Melpomini_34, Bigswole_41, ChaylaJr_34, IkeLoa_31, Chargie21_34
- Track 3 : EasyJones_34, Stubby_32, Astraea_36, Shelob_36, Pinkcreek_26, Flabslab_35, Alice_29, Roots515_35
- Track 4 : Izajani_37
- Track 5 : Norm_36, DirtMonster_34
- Track 6 : Cane17_26
- Track 7 : LinStu_36
- Track 8 : Tonenili_41

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

The start number called the most often in the published annotations is 7, it was called in 101 of the 112 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArcherS7_35, Asterius_34, Ava3_37, BackyardAgain_33, BadAgartude_37, BananaFence_37, Bangla1971_35, Basquiat_34, Bigswole_41, Bipolarisk_35, Blackbrain_33, Bonray_36, Bread_37, Breeniome_36, Burrough_36, Bxz1_36, Cactojaque_33, Cali_36, Cane17_26, Caravan_33, Catera_34, Chargie21_34, CharlieB_36, ChaylaJr_34, ChickenPhender_34, Colt_28, Concombre_35, Daffodil_38, Dandelion_39, Darko_35, Delilah_36, Derek_37, Dietrick_30, DrPhinkDaddy_36, EmToTheThree_39, EmmaElysia_34, Erdmann_37, ErnieJ_36, Ewok_36, Fludd_35, FoxtrotP1_36, FudgeTart_37, Gabriel_36, Gizmo_38, Grungle_29, I3_37, IkeLoa_31, Jessibeth14_35, JulietS_31, JustHall_34, Kamryn_35, Kboogie_36, Khaleesi_35, Koguma_32, LRRHood_33, Lee7_35, LinStu_36, Loanshark_36, Lukilu_29, Maby2021_37, Mangeria_38, McWolfish_35, Megamind_36, Melpomini_34, MikeLiesIn_36, Mikro_34, MoMoMixon_36, Morizzled23_35, Napoleon13_34, Naval22_38, NedWong_37, Nidhogg_36, NuevoMundo_38, ParkTD_35, Phox_34, Phusco_36, Pier_38, Pio_39, Pleione_38, PurduePete_35, Quasimodo_36, Rahel_36, Rizal_34, RoMag_31, Salacia_38, ScottMcG_35, Shaqnato_32, Shrimp_36, Specks_40, Sprinklers_36, Spud_37, SrishMeg2525_35, StubbySaigey_35, Teardrop_35, TinyTim_36, Tonenili_41, Trinitium_34, Turret_33, Wally_35, Willis_36, Yassified_33, YemiJoy2021_37, Yucca_36, Zalkecks_38, Zeenon_38, ZygoTaiga_36,

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

- Izajani_37,

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

- Alice_29, Astraea_36, DirtMonster_34, EasyJones_34, Flabslab_35, Norm_36, Pinkcreek_26, Roots515_35, Shelob_36, Stubby_32,

Summary by start number:

Start 7:

- Found in 107 of 117 (91.5%) of genes in pham
- Manual Annotations of this start: 101 of 112
- Called 99.1% of time when present
- Phage (with cluster) where this start called: ArcherS7_35 (C1), Asterius_34 (C1), Ava3_37 (C1), BackyardAgain_33 (C1), BadAgartude_37 (C1), BananaFence_37 (C1), Bangla1971_35 (C1), Basquiat_34 (C1), Bigswole_41 (C1), Bipolarisk_35 (C1), Blackbrain_33 (C1), Bonray_36 (C1), Bread_37 (C1), Breeniome_36 (C1), Burrough_36 (C1), Bxz1_36 (C1), Cactojaque_33 (C1), Cali_36 (C1), Cane17_26 (C1), Caravan_33 (C1), Catera_34 (C1), Chargie21_34 (C1), CharlieB_36 (C1), ChaylaJr_34 (C1), ChickenPhender_34 (C1), Colt_28 (C1), Concombre_35 (C1), Daffodil_38 (C1), Dandelion_39 (C1), Darko_35 (C1), Delilah_36 (C1), Derek_37 (C1), Dietrick_30 (C1), DrPhinkDaddy_36 (C1), EmToTheThree_39 (C1), EmmaElysia_34 (C1), Erdmann_37 (C1), ErnieJ_36 (C1), Ewok_36 (C1), Fludd_35 (C1), FoxtrotP1_36 (C1), FudgeTart_37 (C1), Gabriel_36 (C1), Gizmo_38 (C1), Grungle_29 (C1), I3_37 (C1), IkeLoa_31 (C1), Jessibeth14_35 (C1), JulietS_31 (C1), JustHall_34 (C1), Kamryn_35 (C1), Kboogie_36 (C1), Khaleesi_35 (C1), Koguma_32 (C1), LRRHood_33 (C1), Lee7_35 (C1), LinStu_36 (C1), Loanshark_36 (C1), Lukilu_29 (C1), Maby2021_37 (C1), Mangeria_38 (C1), McWolfish_35 (C1), Megamind_36 (C1), Melpomini_34 (C1), MikeLiesIn_36 (C1), Mikro_34 (C1), MoMoMixon_36 (C1), Morizzled23_35 (C1), Napoleon13_34 (C1), Naval22_38 (C1), NedWong_37 (C1), Nidhogg_36 (C1), NuevoMundo_38 (C1), ParkTD_35 (C1), Phox_34 (C1), Phusco_36 (C1), Pier_38 (C1), Pio_39 (C1), Pleione_38 (C1), PurduePete_35 (C1), Quasimodo_36 (C1), Rahel_36 (C1), Rizal_34 (C1), RoMag_31

(C1), Salacia_38 (C1), ScottMcG_35 (C1), Shaqnato_32 (C1), Shrimp_36 (C1), Specks_40 (C1), Sprinklers_36 (C1), Spud_37 (C1), SrishMeg2525_35 (C1), StubbySaigey_35 (C1), Teardrop_35 (C1), TinyTim_36 (C1), Tonenili_41 (C1), Trinitium_34 (C1), Turret_33 (C1), Wally_35 (C1), Willis_36 (C1), Yassified_33 (C1), YemiJoy2021_37 (C1), Yucca_36 (C1), Zalkecks_38 (C1), Zeenon_38 (C1), ZygoTaiga_36 (C1),

Start 8:

- Found in 117 of 117 (100.0%) of genes in pham
- Manual Annotations of this start: 11 of 112
- Called 9.4% of time when present
- Phage (with cluster) where this start called: Alice_29 (C1), Astraea_36 (C1), DirtMonster_34 (C1), EasyJones_34 (C1), Flabslab_35 (C1), Izajani_37 (C1), Norm_36 (C1), Pinkcreek_26 (C1), Roots515_35 (C1), Shelob_36 (C1), Stubby_32 (C1),

Summary by clusters:

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

- Start number 7 was manually annotated 101 times for cluster C1.
- Start number 8 was manually annotated 11 times for cluster C1.

Gene Information:

Gene: Alice_29 Start: 10039, Stop: 10170, Start Num: 8

Candidate Starts for Alice_29:

(Start: 8 @10039 has 11 MA's), (9, 10081), (10, 10132), (11, 10153),

Gene: ArcherS7_35 Start: 11458, Stop: 11619, Start Num: 7

Candidate Starts for ArcherS7_35:

(Start: 7 @11458 has 101 MA's), (Start: 8 @11488 has 11 MA's), (9, 11530), (10, 11581), (11, 11602),

Gene: Asterius_34 Start: 11733, Stop: 11894, Start Num: 7

Candidate Starts for Asterius_34:

(Start: 7 @11733 has 101 MA's), (Start: 8 @11763 has 11 MA's), (9, 11805), (10, 11856), (11, 11877),

Gene: Astraea_36 Start: 11448, Stop: 11579, Start Num: 8

Candidate Starts for Astraea_36:

(Start: 8 @11448 has 11 MA's), (9, 11490), (10, 11541), (11, 11562),

Gene: Ava3_37 Start: 12013, Stop: 12174, Start Num: 7

Candidate Starts for Ava3_37:

(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: BackyardAgain_33 Start: 10887, Stop: 11048, Start Num: 7

Candidate Starts for BackyardAgain_33:

(Start: 7 @10887 has 101 MA's), (Start: 8 @10917 has 11 MA's), (9, 10959), (10, 11010), (11, 11031),

Gene: BadAgartude_37 Start: 12100, Stop: 12261, Start Num: 7

Candidate Starts for BadAgartude_37:

(Start: 7 @12100 has 101 MA's), (Start: 8 @12130 has 11 MA's), (9, 12172), (10, 12223), (11, 12244),

Gene: BananaFence_37 Start: 11897, Stop: 12058, Start Num: 7

Candidate Starts for BananaFence_37:

(Start: 7 @11897 has 101 MA's), (Start: 8 @11927 has 11 MA's), (9, 11969), (10, 12020), (11, 12041),

Gene: Bangla1971_35 Start: 11464, Stop: 11625, Start Num: 7

Candidate Starts for Bangla1971_35:

(Start: 7 @11464 has 101 MA's), (Start: 8 @11494 has 11 MA's), (9, 11536), (10, 11587), (11, 11608),

Gene: Basquiat_34 Start: 10669, Stop: 10830, Start Num: 7

Candidate Starts for Basquiat_34:

(3, 10543), (5, 10654), (Start: 7 @10669 has 101 MA's), (Start: 8 @10699 has 11 MA's), (9, 10741), (10, 10792), (11, 10813),

Gene: Bigswole_41 Start: 13585, Stop: 13746, Start Num: 7

Candidate Starts for Bigswole_41:

(3, 13459), (5, 13570), (Start: 7 @13585 has 101 MA's), (Start: 8 @13615 has 11 MA's), (9, 13657), (10, 13708), (11, 13729),

Gene: Bipolarisk_35 Start: 11724, Stop: 11885, Start Num: 7

Candidate Starts for Bipolarisk_35:

(Start: 7 @11724 has 101 MA's), (Start: 8 @11754 has 11 MA's), (9, 11796), (10, 11847), (11, 11868),

Gene: Blackbrain_33 Start: 10485, Stop: 10646, Start Num: 7

Candidate Starts for Blackbrain_33:

(3, 10359), (5, 10470), (Start: 7 @10485 has 101 MA's), (Start: 8 @10515 has 11 MA's), (9, 10557), (10, 10608), (11, 10629),

Gene: Bonray_36 Start: 12001, Stop: 12162, Start Num: 7

Candidate Starts for Bonray_36:

(Start: 7 @12001 has 101 MA's), (Start: 8 @12031 has 11 MA's), (9, 12073), (10, 12124), (11, 12145),

Gene: Bread_37 Start: 12013, Stop: 12174, Start Num: 7

Candidate Starts for Bread_37:

(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: Breeniome_36 Start: 10896, Stop: 11057, Start Num: 7

Candidate Starts for Breeniome_36:

(Start: 7 @10896 has 101 MA's), (Start: 8 @10926 has 11 MA's), (9, 10968), (10, 11019), (11, 11040),

Gene: Burrough_36 Start: 11724, Stop: 11885, Start Num: 7

Candidate Starts for Burrough_36:

(Start: 7 @11724 has 101 MA's), (Start: 8 @11754 has 11 MA's), (9, 11796), (10, 11847), (11, 11868),

Gene: Bxz1_36 Start: 12473, Stop: 12634, Start Num: 7

Candidate Starts for Bxz1_36:

(Start: 7 @12473 has 101 MA's), (Start: 8 @12503 has 11 MA's), (9, 12545), (10, 12596), (11, 12617),

Gene: Cactojaque_33 Start: 10592, Stop: 10753, Start Num: 7

Candidate Starts for Cactojaque_33:

(Start: 7 @10592 has 101 MA's), (Start: 8 @10622 has 11 MA's), (9, 10664), (10, 10715), (11, 10736),

Gene: Cali_36 Start: 13034, Stop: 13195, Start Num: 7

Candidate Starts for Cali_36:

(Start: 7 @13034 has 101 MA's), (Start: 8 @13064 has 11 MA's), (9, 13106), (10, 13157), (11, 13178),

Gene: Cane17_26 Start: 9150, Stop: 9311, Start Num: 7

Candidate Starts for Cane17_26:

(1, 8979), (2, 8997), (5, 9135), (Start: 7 @9150 has 101 MA's), (Start: 8 @9180 has 11 MA's), (9, 9222), (10, 9273), (11, 9294),

Gene: Caravan_33 Start: 11065, Stop: 11226, Start Num: 7

Candidate Starts for Caravan_33:

(3, 10939), (5, 11050), (Start: 7 @11065 has 101 MA's), (Start: 8 @11095 has 11 MA's), (9, 11137), (10, 11188), (11, 11209),

Gene: Catera_34 Start: 10891, Stop: 11052, Start Num: 7

Candidate Starts for Catera_34:

(Start: 7 @10891 has 101 MA's), (Start: 8 @10921 has 11 MA's), (9, 10963), (10, 11014), (11, 11035),

Gene: Chargie21_34 Start: 10669, Stop: 10830, Start Num: 7

Candidate Starts for Chargie21_34:

(3, 10543), (5, 10654), (Start: 7 @10669 has 101 MA's), (Start: 8 @10699 has 11 MA's), (9, 10741), (10, 10792), (11, 10813),

Gene: CharlieB_36 Start: 11032, Stop: 11193, Start Num: 7

Candidate Starts for CharlieB_36:

(Start: 7 @11032 has 101 MA's), (Start: 8 @11062 has 11 MA's), (9, 11104), (10, 11155), (11, 11176),

Gene: ChaylaJr_34 Start: 10756, Stop: 10917, Start Num: 7

Candidate Starts for ChaylaJr_34:

(3, 10630), (5, 10741), (Start: 7 @10756 has 101 MA's), (Start: 8 @10786 has 11 MA's), (9, 10828), (10, 10879), (11, 10900),

Gene: ChickenPhender_34 Start: 10714, Stop: 10875, Start Num: 7

Candidate Starts for ChickenPhender_34:

(3, 10588), (5, 10699), (Start: 7 @10714 has 101 MA's), (Start: 8 @10744 has 11 MA's), (9, 10786), (10, 10837), (11, 10858),

Gene: Colt_28 Start: 10017, Stop: 10178, Start Num: 7

Candidate Starts for Colt_28:

(3, 9891), (5, 10002), (Start: 7 @10017 has 101 MA's), (Start: 8 @10047 has 11 MA's), (9, 10089), (10, 10140), (11, 10161),

Gene: Concombre_35 Start: 12239, Stop: 12400, Start Num: 7

Candidate Starts for Concombre_35:

(Start: 7 @12239 has 101 MA's), (Start: 8 @12269 has 11 MA's), (9, 12311), (10, 12362), (11, 12383),

Gene: Daffodil_38 Start: 12013, Stop: 12174, Start Num: 7

Candidate Starts for Daffodil_38:

(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: Dandelion_39 Start: 13110, Stop: 13271, Start Num: 7

Candidate Starts for Dandelion_39:

(3, 12984), (5, 13095), (Start: 7 @13110 has 101 MA's), (Start: 8 @13140 has 11 MA's), (9, 13182), (10, 13233), (11, 13254),

Gene: Darko_35 Start: 11866, Stop: 12027, Start Num: 7

Candidate Starts for Darko_35:

(Start: 7 @11866 has 101 MA's), (Start: 8 @11896 has 11 MA's), (9, 11938), (10, 11989), (11, 12010),

Gene: Delilah_36 Start: 12013, Stop: 12174, Start Num: 7

Candidate Starts for Delilah_36:

(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: Derek_37 Start: 11425, Stop: 11586, Start Num: 7

Candidate Starts for Derek_37:

(Start: 7 @11425 has 101 MA's), (Start: 8 @11455 has 11 MA's), (9, 11497), (10, 11548), (11, 11569),

Gene: Dietrick_30 Start: 10442, Stop: 10603, Start Num: 7

Candidate Starts for Dietrick_30:

(3, 10316), (5, 10427), (Start: 7 @10442 has 101 MA's), (Start: 8 @10472 has 11 MA's), (9, 10514), (10, 10565), (11, 10586),

Gene: DirtMonster_34 Start: 12364, Stop: 12495, Start Num: 8

Candidate Starts for DirtMonster_34:

(Start: 8 @12364 has 11 MA's), (9, 12406), (10, 12457), (11, 12478),

Gene: DrPhinkDaddy_36 Start: 12010, Stop: 12171, Start Num: 7

Candidate Starts for DrPhinkDaddy_36:

(Start: 7 @12010 has 101 MA's), (Start: 8 @12040 has 11 MA's), (9, 12082), (10, 12133), (11, 12154),

Gene: EasyJones_34 Start: 10447, Stop: 10578, Start Num: 8

Candidate Starts for EasyJones_34:

(Start: 8 @10447 has 11 MA's), (9, 10489), (10, 10540), (11, 10561),

Gene: EmToTheThree_39 Start: 13427, Stop: 13588, Start Num: 7

Candidate Starts for EmToTheThree_39:

(Start: 7 @13427 has 101 MA's), (Start: 8 @13457 has 11 MA's), (9, 13499), (10, 13550), (11, 13571),

Gene: EmmaElysia_34 Start: 10652, Stop: 10813, Start Num: 7

Candidate Starts for EmmaElysia_34:

(Start: 7 @10652 has 101 MA's), (Start: 8 @10682 has 11 MA's), (9, 10724), (10, 10775), (11, 10796),

Gene: Erdmann_37 Start: 12013, Stop: 12174, Start Num: 7

Candidate Starts for Erdmann_37:

(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: ErnieJ_36 Start: 11615, Stop: 11776, Start Num: 7

Candidate Starts for ErnieJ_36:

(3, 11489), (5, 11600), (Start: 7 @11615 has 101 MA's), (Start: 8 @11645 has 11 MA's), (9, 11687), (10, 11738), (11, 11759),

Gene: Ewok_36 Start: 12016, Stop: 12177, Start Num: 7

Candidate Starts for Ewok_36:

(Start: 7 @12016 has 101 MA's), (Start: 8 @12046 has 11 MA's), (9, 12088), (10, 12139), (11, 12160),

Gene: Flabslab_35 Start: 11432, Stop: 11563, Start Num: 8
Candidate Starts for Flabslab_35:
(Start: 8 @11432 has 11 MA's), (9, 11474), (10, 11525), (11, 11546),

Gene: Fludd_35 Start: 10888, Stop: 11049, Start Num: 7
Candidate Starts for Fludd_35:
(Start: 7 @10888 has 101 MA's), (Start: 8 @10918 has 11 MA's), (9, 10960), (10, 11011), (11, 11032),

Gene: FoxtrotP1_36 Start: 12341, Stop: 12502, Start Num: 7
Candidate Starts for FoxtrotP1_36:
(Start: 7 @12341 has 101 MA's), (Start: 8 @12371 has 11 MA's), (9, 12413), (10, 12464), (11, 12485),

Gene: FudgeTart_37 Start: 12013, Stop: 12174, Start Num: 7
Candidate Starts for FudgeTart_37:
(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: Gabriel_36 Start: 10887, Stop: 11048, Start Num: 7
Candidate Starts for Gabriel_36:
(Start: 7 @10887 has 101 MA's), (Start: 8 @10917 has 11 MA's), (9, 10959), (10, 11010), (11, 11031),

Gene: Gizmo_38 Start: 12015, Stop: 12176, Start Num: 7
Candidate Starts for Gizmo_38:
(Start: 7 @12015 has 101 MA's), (Start: 8 @12045 has 11 MA's), (9, 12087), (10, 12138), (11, 12159),

Gene: Grungle_29 Start: 9584, Stop: 9745, Start Num: 7
Candidate Starts for Grungle_29:
(Start: 7 @9584 has 101 MA's), (Start: 8 @9614 has 11 MA's), (9, 9656), (10, 9707), (11, 9728),

Gene: I3_37 Start: 12344, Stop: 12505, Start Num: 7
Candidate Starts for I3_37:
(3, 12218), (5, 12329), (Start: 7 @12344 has 101 MA's), (Start: 8 @12374 has 11 MA's), (9, 12416),
(10, 12467), (11, 12488),

Gene: IkeLoa_31 Start: 11093, Stop: 11254, Start Num: 7
Candidate Starts for IkeLoa_31:
(3, 10967), (5, 11078), (Start: 7 @11093 has 101 MA's), (Start: 8 @11123 has 11 MA's), (9, 11165),
(10, 11216), (11, 11237),

Gene: Izajani_37 Start: 12043, Stop: 12174, Start Num: 8
Candidate Starts for Izajani_37:
(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: Jessibeth14_35 Start: 11733, Stop: 11894, Start Num: 7
Candidate Starts for Jessibeth14_35:
(Start: 7 @11733 has 101 MA's), (Start: 8 @11763 has 11 MA's), (9, 11805), (10, 11856), (11, 11877),

Gene: JulietS_31 Start: 9887, Stop: 10048, Start Num: 7
Candidate Starts for JulietS_31:
(Start: 7 @9887 has 101 MA's), (Start: 8 @9917 has 11 MA's), (9, 9959), (10, 10010), (11, 10031),

Gene: JustHall_34 Start: 11695, Stop: 11856, Start Num: 7
Candidate Starts for JustHall_34:

(3, 11569), (5, 11680), (Start: 7 @11695 has 101 MA's), (Start: 8 @11725 has 11 MA's), (9, 11767), (10, 11818), (11, 11839),

Gene: Kamryn_35 Start: 11568, Stop: 11729, Start Num: 7

Candidate Starts for Kamryn_35:

(3, 11442), (5, 11553), (Start: 7 @11568 has 101 MA's), (Start: 8 @11598 has 11 MA's), (9, 11640), (10, 11691), (11, 11712),

Gene: Kboogie_36 Start: 10943, Stop: 11104, Start Num: 7

Candidate Starts for Kboogie_36:

(Start: 7 @10943 has 101 MA's), (Start: 8 @10973 has 11 MA's), (9, 11015), (10, 11066), (11, 11087),

Gene: Khaleesi_35 Start: 11760, Stop: 11921, Start Num: 7

Candidate Starts for Khaleesi_35:

(Start: 7 @11760 has 101 MA's), (Start: 8 @11790 has 11 MA's), (9, 11832), (10, 11883), (11, 11904),

Gene: Koguma_32 Start: 10230, Stop: 10391, Start Num: 7

Candidate Starts for Koguma_32:

(Start: 7 @10230 has 101 MA's), (Start: 8 @10260 has 11 MA's), (9, 10302), (10, 10353), (11, 10374),

Gene: LRRHood_33 Start: 12153, Stop: 12314, Start Num: 7

Candidate Starts for LRRHood_33:

(Start: 7 @12153 has 101 MA's), (Start: 8 @12183 has 11 MA's), (9, 12225), (10, 12276), (11, 12297),

Gene: Lee7_35 Start: 12010, Stop: 12171, Start Num: 7

Candidate Starts for Lee7_35:

(Start: 7 @12010 has 101 MA's), (Start: 8 @12040 has 11 MA's), (9, 12082), (10, 12133), (11, 12154),

Gene: LinStu_36 Start: 12146, Stop: 12307, Start Num: 7

Candidate Starts for LinStu_36:

(3, 12020), (4, 12113), (5, 12131), (Start: 7 @12146 has 101 MA's), (Start: 8 @12176 has 11 MA's), (9, 12218), (10, 12269), (11, 12290),

Gene: Loanshark_36 Start: 12013, Stop: 12174, Start Num: 7

Candidate Starts for Loanshark_36:

(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: Lukilu_29 Start: 10604, Stop: 10765, Start Num: 7

Candidate Starts for Lukilu_29:

(Start: 7 @10604 has 101 MA's), (Start: 8 @10634 has 11 MA's), (9, 10676), (10, 10727), (11, 10748),

Gene: Maby2021_37 Start: 12013, Stop: 12174, Start Num: 7

Candidate Starts for Maby2021_37:

(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: Mangeria_38 Start: 12318, Stop: 12479, Start Num: 7

Candidate Starts for Mangeria_38:

(3, 12192), (5, 12303), (Start: 7 @12318 has 101 MA's), (Start: 8 @12348 has 11 MA's), (9, 12390), (10, 12441), (11, 12462),

Gene: McWolfish_35 Start: 11760, Stop: 11921, Start Num: 7

Candidate Starts for McWolfish_35:

(Start: 7 @11760 has 101 MA's), (Start: 8 @11790 has 11 MA's), (9, 11832), (10, 11883), (11, 11904),

Gene: Megamind_36 Start: 11998, Stop: 12159, Start Num: 7
Candidate Starts for Megamind_36:
(Start: 7 @11998 has 101 MA's), (Start: 8 @12028 has 11 MA's), (9, 12070), (10, 12121), (11, 12142),

Gene: Melpomini_34 Start: 10652, Stop: 10813, Start Num: 7
Candidate Starts for Melpomini_34:
(3, 10526), (5, 10637), (Start: 7 @10652 has 101 MA's), (Start: 8 @10682 has 11 MA's), (9, 10724),
(10, 10775), (11, 10796),

Gene: MikeLiesIn_36 Start: 12013, Stop: 12174, Start Num: 7
Candidate Starts for MikeLiesIn_36:
(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: Mikro_34 Start: 12499, Stop: 12660, Start Num: 7
Candidate Starts for Mikro_34:
(Start: 7 @12499 has 101 MA's), (Start: 8 @12529 has 11 MA's), (9, 12571), (10, 12622), (11, 12643),

Gene: MoMoMixon_36 Start: 12109, Stop: 12270, Start Num: 7
Candidate Starts for MoMoMixon_36:
(3, 11983), (5, 12094), (Start: 7 @12109 has 101 MA's), (Start: 8 @12139 has 11 MA's), (9, 12181),
(10, 12232), (11, 12253),

Gene: Morizzled23_35 Start: 10864, Stop: 11025, Start Num: 7
Candidate Starts for Morizzled23_35:
(Start: 7 @10864 has 101 MA's), (Start: 8 @10894 has 11 MA's), (9, 10936), (10, 10987), (11, 11008),

Gene: Napoleon13_34 Start: 10665, Stop: 10826, Start Num: 7
Candidate Starts for Napoleon13_34:
(3, 10539), (5, 10650), (Start: 7 @10665 has 101 MA's), (Start: 8 @10695 has 11 MA's), (9, 10737),
(10, 10788), (11, 10809),

Gene: Naval22_38 Start: 12053, Stop: 12214, Start Num: 7
Candidate Starts for Naval22_38:
(Start: 7 @12053 has 101 MA's), (Start: 8 @12083 has 11 MA's), (9, 12125), (10, 12176), (11, 12197),

Gene: NedWong_37 Start: 12013, Stop: 12174, Start Num: 7
Candidate Starts for NedWong_37:
(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: Nidhogg_36 Start: 11859, Stop: 12020, Start Num: 7
Candidate Starts for Nidhogg_36:
(3, 11733), (5, 11844), (Start: 7 @11859 has 101 MA's), (Start: 8 @11889 has 11 MA's), (9, 11931),
(10, 11982), (11, 12003),

Gene: Norm_36 Start: 12044, Stop: 12175, Start Num: 8
Candidate Starts for Norm_36:
(Start: 8 @12044 has 11 MA's), (9, 12086), (10, 12137), (11, 12158),

Gene: NuevoMundo_38 Start: 12849, Stop: 13010, Start Num: 7
Candidate Starts for NuevoMundo_38:
(3, 12723), (5, 12834), (Start: 7 @12849 has 101 MA's), (Start: 8 @12879 has 11 MA's), (9, 12921),
(10, 12972), (11, 12993),

Gene: ParkTD_35 Start: 12013, Stop: 12174, Start Num: 7
Candidate Starts for ParkTD_35:
(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: Phox_34 Start: 11959, Stop: 12120, Start Num: 7
Candidate Starts for Phox_34:
(3, 11833), (5, 11944), (Start: 7 @11959 has 101 MA's), (Start: 8 @11989 has 11 MA's), (9, 12031),
(10, 12082), (11, 12103),

Gene: Phusco_36 Start: 11464, Stop: 11625, Start Num: 7
Candidate Starts for Phusco_36:
(Start: 7 @11464 has 101 MA's), (Start: 8 @11494 has 11 MA's), (9, 11536), (10, 11587), (11, 11608),

Gene: Pier_38 Start: 12171, Stop: 12332, Start Num: 7
Candidate Starts for Pier_38:
(Start: 7 @12171 has 101 MA's), (Start: 8 @12201 has 11 MA's), (9, 12243), (10, 12294), (11, 12315),

Gene: Pinkcreek_26 Start: 9368, Stop: 9499, Start Num: 8
Candidate Starts for Pinkcreek_26:
(Start: 8 @9368 has 11 MA's), (9, 9410), (10, 9461), (11, 9482),

Gene: Pio_39 Start: 12862, Stop: 13023, Start Num: 7
Candidate Starts for Pio_39:
(Start: 7 @12862 has 101 MA's), (Start: 8 @12892 has 11 MA's), (9, 12934), (10, 12985), (11, 13006),

Gene: Pleione_38 Start: 12013, Stop: 12174, Start Num: 7
Candidate Starts for Pleione_38:
(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: PurduePete_35 Start: 11724, Stop: 11885, Start Num: 7
Candidate Starts for PurduePete_35:
(Start: 7 @11724 has 101 MA's), (Start: 8 @11754 has 11 MA's), (9, 11796), (10, 11847), (11, 11868),

Gene: Quasimodo_36 Start: 12428, Stop: 12589, Start Num: 7
Candidate Starts for Quasimodo_36:
(Start: 7 @12428 has 101 MA's), (Start: 8 @12458 has 11 MA's), (9, 12500), (10, 12551), (11, 12572),

Gene: Rahel_36 Start: 11464, Stop: 11625, Start Num: 7
Candidate Starts for Rahel_36:
(Start: 7 @11464 has 101 MA's), (Start: 8 @11494 has 11 MA's), (9, 11536), (10, 11587), (11, 11608),

Gene: Rizal_34 Start: 10930, Stop: 11091, Start Num: 7
Candidate Starts for Rizal_34:
(Start: 7 @10930 has 101 MA's), (Start: 8 @10960 has 11 MA's), (9, 11002), (10, 11053), (11, 11074),

Gene: RoMag_31 Start: 11262, Stop: 11423, Start Num: 7
Candidate Starts for RoMag_31:
(Start: 7 @11262 has 101 MA's), (Start: 8 @11292 has 11 MA's), (9, 11334), (10, 11385), (11, 11406),

Gene: Roots515_35 Start: 11822, Stop: 11953, Start Num: 8
Candidate Starts for Roots515_35:
(Start: 8 @11822 has 11 MA's), (9, 11864), (10, 11915), (11, 11936),

Gene: Salacia_38 Start: 12013, Stop: 12174, Start Num: 7

Candidate Starts for Salacia_38:

(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: ScottMcG_35 Start: 12102, Stop: 12263, Start Num: 7

Candidate Starts for ScottMcG_35:

(3, 11976), (5, 12087), (Start: 7 @12102 has 101 MA's), (Start: 8 @12132 has 11 MA's), (9, 12174), (10, 12225), (11, 12246),

Gene: Shaqnato_32 Start: 10575, Stop: 10736, Start Num: 7

Candidate Starts for Shaqnato_32:

(Start: 7 @10575 has 101 MA's), (Start: 8 @10605 has 11 MA's), (9, 10647), (10, 10698), (11, 10719),

Gene: Shelob_36 Start: 12392, Stop: 12523, Start Num: 8

Candidate Starts for Shelob_36:

(Start: 8 @12392 has 11 MA's), (9, 12434), (10, 12485), (11, 12506),

Gene: Shrimp_36 Start: 12017, Stop: 12178, Start Num: 7

Candidate Starts for Shrimp_36:

(Start: 7 @12017 has 101 MA's), (Start: 8 @12047 has 11 MA's), (9, 12089), (10, 12140), (11, 12161),

Gene: Specks_40 Start: 13084, Stop: 13245, Start Num: 7

Candidate Starts for Specks_40:

(3, 12958), (5, 13069), (Start: 7 @13084 has 101 MA's), (Start: 8 @13114 has 11 MA's), (9, 13156), (10, 13207), (11, 13228),

Gene: Sprinklers_36 Start: 11502, Stop: 11663, Start Num: 7

Candidate Starts for Sprinklers_36:

(Start: 7 @11502 has 101 MA's), (Start: 8 @11532 has 11 MA's), (9, 11574), (10, 11625), (11, 11646),

Gene: Spud_37 Start: 12641, Stop: 12802, Start Num: 7

Candidate Starts for Spud_37:

(3, 12515), (5, 12626), (Start: 7 @12641 has 101 MA's), (Start: 8 @12671 has 11 MA's), (9, 12713), (10, 12764), (11, 12785),

Gene: SrishMeg2525_35 Start: 11724, Stop: 11885, Start Num: 7

Candidate Starts for SrishMeg2525_35:

(Start: 7 @11724 has 101 MA's), (Start: 8 @11754 has 11 MA's), (9, 11796), (10, 11847), (11, 11868),

Gene: Stubby_32 Start: 10769, Stop: 10900, Start Num: 8

Candidate Starts for Stubby_32:

(Start: 8 @10769 has 11 MA's), (9, 10811), (10, 10862), (11, 10883),

Gene: StubbySaigey_35 Start: 10653, Stop: 10814, Start Num: 7

Candidate Starts for StubbySaigey_35:

(Start: 7 @10653 has 101 MA's), (Start: 8 @10683 has 11 MA's), (9, 10725), (10, 10776), (11, 10797),

Gene: Teardrop_35 Start: 10929, Stop: 11090, Start Num: 7

Candidate Starts for Teardrop_35:

(Start: 7 @10929 has 101 MA's), (Start: 8 @10959 has 11 MA's), (9, 11001), (10, 11052), (11, 11073),

Gene: TinyTim_36 Start: 12013, Stop: 12174, Start Num: 7

Candidate Starts for TinyTim_36:

(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: Tonenili_41 Start: 13559, Stop: 13720, Start Num: 7

Candidate Starts for Tonenili_41:

(6, 13556), (Start: 7 @13559 has 101 MA's), (Start: 8 @13589 has 11 MA's), (9, 13631), (10, 13682), (11, 13703),

Gene: Trinitium_34 Start: 10700, Stop: 10861, Start Num: 7

Candidate Starts for Trinitium_34:

(3, 10574), (5, 10685), (Start: 7 @10700 has 101 MA's), (Start: 8 @10730 has 11 MA's), (9, 10772), (10, 10823), (11, 10844),

Gene: Turret_33 Start: 10423, Stop: 10584, Start Num: 7

Candidate Starts for Turret_33:

(3, 10297), (5, 10408), (Start: 7 @10423 has 101 MA's), (Start: 8 @10453 has 11 MA's), (9, 10495), (10, 10546), (11, 10567),

Gene: Wally_35 Start: 10885, Stop: 11046, Start Num: 7

Candidate Starts for Wally_35:

(Start: 7 @10885 has 101 MA's), (Start: 8 @10915 has 11 MA's), (9, 10957), (10, 11008), (11, 11029),

Gene: Willis_36 Start: 11908, Stop: 12069, Start Num: 7

Candidate Starts for Willis_36:

(Start: 7 @11908 has 101 MA's), (Start: 8 @11938 has 11 MA's), (9, 11980), (10, 12031), (11, 12052),

Gene: Yassified_33 Start: 10665, Stop: 10826, Start Num: 7

Candidate Starts for Yassified_33:

(Start: 7 @10665 has 101 MA's), (Start: 8 @10695 has 11 MA's), (9, 10737), (10, 10788), (11, 10809),

Gene: YemiJoy2021_37 Start: 12013, Stop: 12174, Start Num: 7

Candidate Starts for YemiJoy2021_37:

(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),

Gene: Yucca_36 Start: 11935, Stop: 12096, Start Num: 7

Candidate Starts for Yucca_36:

(Start: 7 @11935 has 101 MA's), (Start: 8 @11965 has 11 MA's), (9, 12007), (10, 12058), (11, 12079),

Gene: Zalkecks_38 Start: 12017, Stop: 12178, Start Num: 7

Candidate Starts for Zalkecks_38:

(Start: 7 @12017 has 101 MA's), (Start: 8 @12047 has 11 MA's), (9, 12089), (10, 12140), (11, 12161),

Gene: Zeenon_38 Start: 11999, Stop: 12160, Start Num: 7

Candidate Starts for Zeenon_38:

(Start: 7 @11999 has 101 MA's), (Start: 8 @12029 has 11 MA's), (9, 12071), (10, 12122), (11, 12143),

Gene: ZygoTaiga_36 Start: 12013, Stop: 12174, Start Num: 7

Candidate Starts for ZygoTaiga_36:

(Start: 7 @12013 has 101 MA's), (Start: 8 @12043 has 11 MA's), (9, 12085), (10, 12136), (11, 12157),