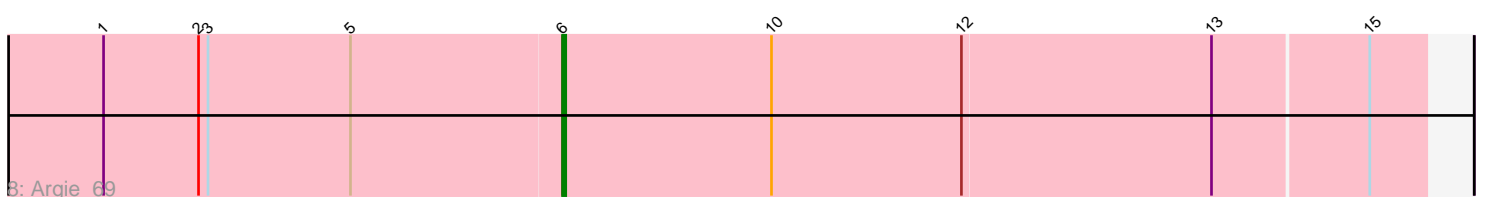
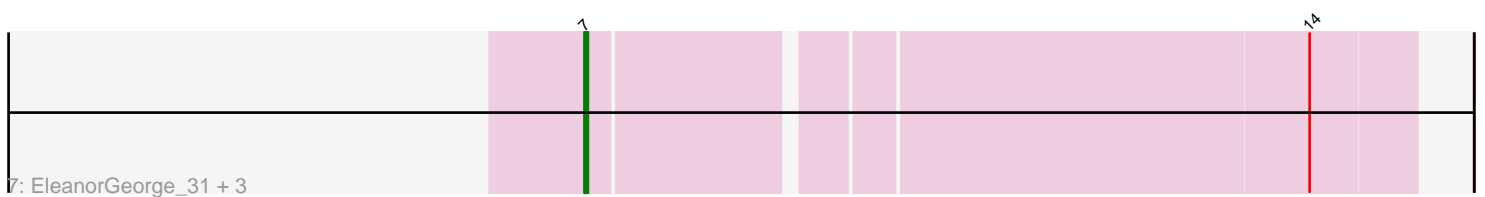
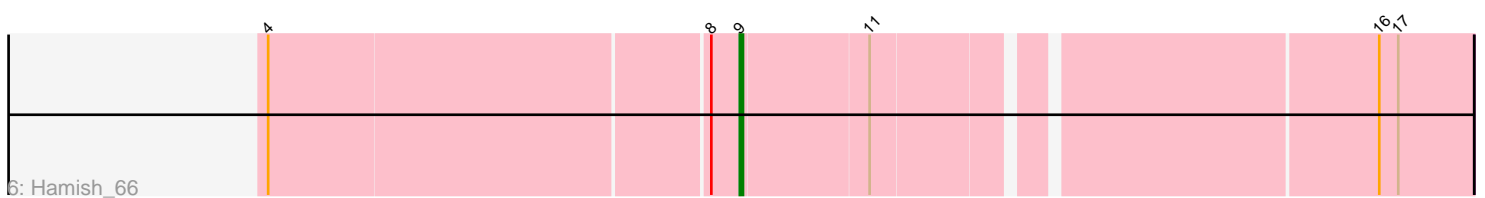
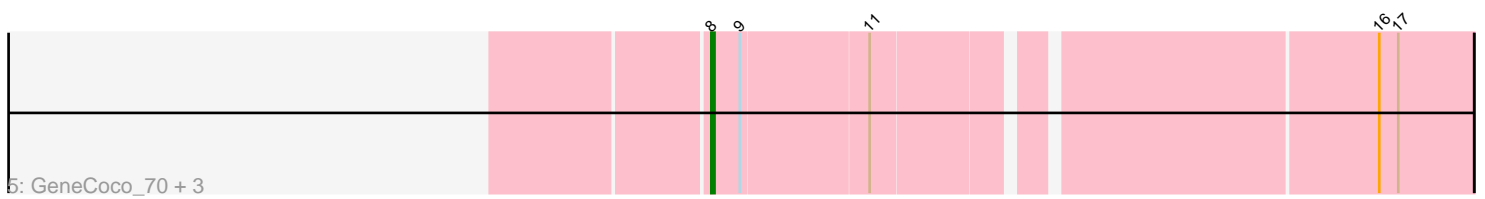
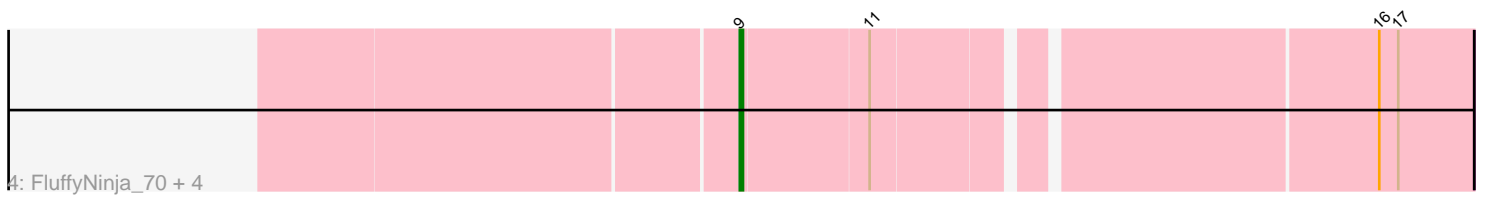
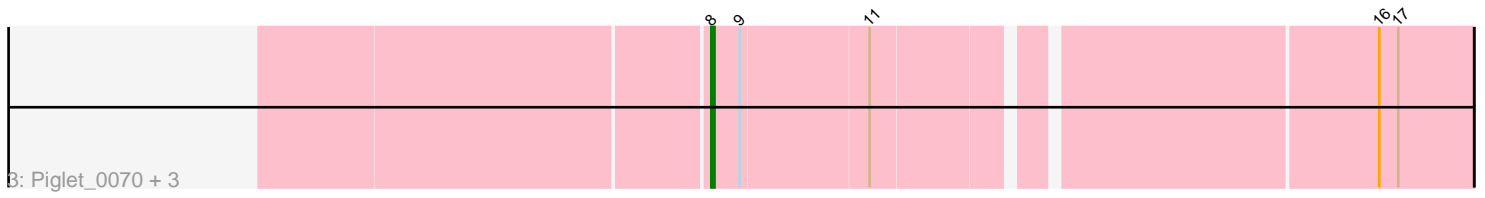
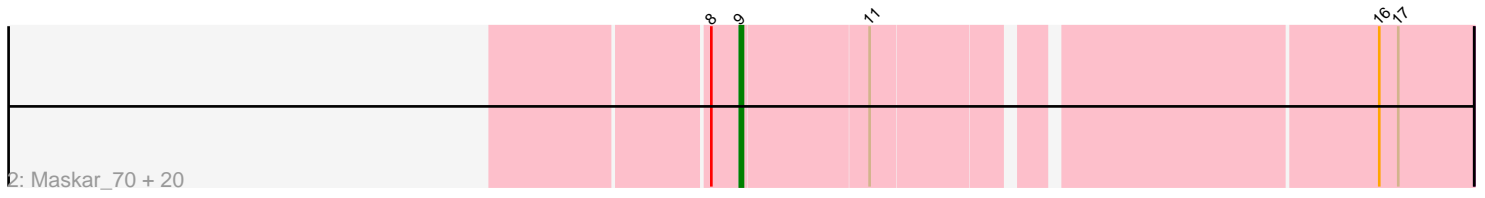
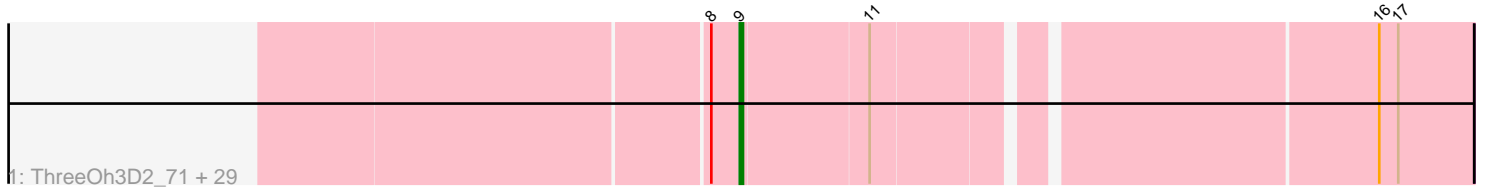


Pham 157836



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 157836 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157836 has 70 members, 3 are drafts.

Phages represented in each track:

- Track 1 : ThreeOh3D2_71, Kikipoo_71, Badfish_70, Jillium_70, Skippy_71, Altwerkus_68, Chah_71, Maru_69, Anderson_71, Phipps_69, Xavier_69, Waterdiva_70, Hetaeria_69, Katniss_71, Hertubise_69, Eugenia_70, Serendipity_69, PG1_69, Serpentine_0070, Orion_69, UAch1_70, IsaacEli_71, Scoot17C_70, Mesh1_70, Frankicide_68, OliverWalter_69, Oosterbaan_69, Olak_69, Cannibal_70, Mutante_70
- Track 2 : Maskar_70, Mosaic_67, MitKao_69, Childish_69, Cosmolli16_71, ImtiyazSitla_70, HenryJackson_70, Ashraf_70, DaddyDaniels_72, MRabcd_69, Chorkpop_70, Vista_68, Zonia_70, TallGrassMM_68, Thora_68, Daffy_68, Lego3393_67, Keitherie_72, Mana_68, Kahve_70, Wallhey_70
- Track 3 : Piglet_0070, Megatron_70, Matalotodo_69, PhatCats2014_70
- Track 4 : FluffyNinja_70, BlackStallion_70, Swish_70, Yoshand_70, Pherdinand_70
- Track 5 : GeneCoco_70, Pinkman_69, Kwksand96_70, PhrodoBaggins_71
- Track 6 : Hamish_66
- Track 7 : EleanorGeorge_31, SG4_31, Enby_32, Lorde_32
- Track 8 : Argie_69

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

The start number called the most often in the published annotations is 9, it was called in 55 of the 67 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Altwerkus_68, Anderson_71, Ashraf_70, Badfish_70, BlackStallion_70, Cannibal_70, Chah_71, Childish_69, Chorkpop_70, Cosmolli16_71, DaddyDaniels_72, Daffy_68, Eugenia_70, FluffyNinja_70, Frankicide_68, Hamish_66, HenryJackson_70, Hertubise_69, Hetaeria_69, ImtiyazSitla_70, IsaacEli_71, Jillium_70, Kahve_70, Katniss_71, Keitherie_72, Kikipoo_71, Lego3393_67, MRabcd_69, Mana_68, Maru_69, Maskar_70, Mesh1_70, MitKao_69, Mosaic_67, Mutante_70, Olak_69, OliverWalter_69, Oosterbaan_69, Orion_69, PG1_69, Pherdinand_70, Phipps_69, Scoot17C_70, Serendipity_69, Serpentine_0070, Skippy_71, Swish_70, TallGrassMM_68, Thora_68, ThreeOh3D2_71, UAch1_70, Vista_68, Wallhey_70, Waterdiva_70, Xavier_69, Yoshand_70, Zonia_70,

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

- GeneCoco_70, Kwksand96_70, Matalotodo_69, Megatron_70, PhatCats2014_70, PhrodoBaggins_71, Piglet_0070, Pinkman_69,

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

- Argie_69, EleanorGeorge_31, Enby_32, Lorde_32, SG4_31,

Summary by start number:

Start 6:

- Found in 1 of 70 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 67
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argie_69 (W),

Start 7:

- Found in 4 of 70 (5.7%) of genes in pham
- Manual Annotations of this start: 4 of 67
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EleanorGeorge_31 (F1), Enby_32 (F1), Lorde_32 (F1), SG4_31 (F1),

Start 8:

- Found in 60 of 70 (85.7%) of genes in pham
- Manual Annotations of this start: 7 of 67
- Called 13.3% of time when present
- Phage (with cluster) where this start called: GeneCoco_70 (B1), Kwksand96_70 (B1), Matalotodo_69 (B1), Megatron_70 (B1), PhatCats2014_70 (B1), PhrodoBaggins_71 (B1), Piglet_0070 (B1), Pinkman_69 (B1),

Start 9:

- Found in 65 of 70 (92.9%) of genes in pham
- Manual Annotations of this start: 55 of 67
- Called 87.7% of time when present
- Phage (with cluster) where this start called: Altwerkus_68 (B1), Anderson_71 (B1), Ashraf_70 (B1), Badfish_70 (B1), BlackStallion_70 (B1), Cannibal_70 (B1), Chah_71 (B1), Childish_69 (B1), Chorkpop_70 (B1), Cosmolli16_71 (B1), DaddyDaniels_72 (B1), Daffy_68 (B1), Eugenia_70 (B1), FluffyNinja_70 (B1), Frankicide_68 (B1), Hamish_66 (B1), HenryJackson_70 (B1), Hertubise_69 (B1), Hetaeria_69 (B1), ImtiyazSitla_70 (B1), IsaacEli_71 (B1), Jillium_70 (B1), Kahve_70 (B1), Katniss_71 (B1), Keitherie_72 (B1), Kikipoo_71 (B1), Lego3393_67 (B1), MRabcd_69 (B1), Mana_68 (B1), Maru_69 (B1), Maskar_70 (B1), Mesh1_70 (B1), MitKao_69 (B1), Mosaic_67 (B1), Mutante_70 (B1), Olak_69 (B1), OliverWalter_69 (B1), Oosterbaan_69 (B1), Orion_69 (B1), PG1_69 (B1), Pherdinand_70 (B1), Phipps_69 (B1), Scoot17C_70 (B1), Serendipity_69 (B1), Serpentine_0070 (B1), Skippy_71 (B1), Swish_70 (B1), TallGrassMM_68 (B1), Thora_68 (B1), ThreeOh3D2_71 (B1), UAch1_70 (B1), Vista_68 (B1), Wallhey_70 (B1), Waterdiva_70 (B1), Xavier_69 (B1), Yoshand_70 (B1), Zonia_70 (B1),

Summary by clusters:

There are 3 clusters represented in this pham: F1, B1, W,

Info for manual annotations of cluster B1:

- Start number 8 was manually annotated 7 times for cluster B1.
- Start number 9 was manually annotated 55 times for cluster B1.

Info for manual annotations of cluster F1:

- Start number 7 was manually annotated 4 times for cluster F1.

Info for manual annotations of cluster W:

- Start number 6 was manually annotated 1 time for cluster W.

Gene Information:

Gene: Altwerkus_68 Start: 56943, Stop: 57158, Start Num: 9

Candidate Starts for Altwerkus_68:

(Start: 8 @56934 has 7 MA's), (Start: 9 @56943 has 55 MA's), (11, 56982), (16, 57129), (17, 57135),

Gene: Anderson_71 Start: 57515, Stop: 57730, Start Num: 9

Candidate Starts for Anderson_71:

(Start: 8 @57506 has 7 MA's), (Start: 9 @57515 has 55 MA's), (11, 57554), (16, 57701), (17, 57707),

Gene: Argie_69 Start: 50693, Stop: 50962, Start Num: 6

Candidate Starts for Argie_69:

(1, 50549), (2, 50579), (3, 50582), (5, 50627), (Start: 6 @50693 has 1 MA's), (10, 50759), (12, 50819), (13, 50897), (15, 50945),

Gene: Ashraf_70 Start: 57497, Stop: 57712, Start Num: 9

Candidate Starts for Ashraf_70:

(Start: 8 @57488 has 7 MA's), (Start: 9 @57497 has 55 MA's), (11, 57536), (16, 57683), (17, 57689),

Gene: Badfish_70 Start: 57801, Stop: 58016, Start Num: 9

Candidate Starts for Badfish_70:

(Start: 8 @57792 has 7 MA's), (Start: 9 @57801 has 55 MA's), (11, 57840), (16, 57987), (17, 57993),

Gene: BlackStallion_70 Start: 57544, Stop: 57759, Start Num: 9

Candidate Starts for BlackStallion_70:

(Start: 9 @57544 has 55 MA's), (11, 57583), (16, 57730), (17, 57736),

Gene: Cannibal_70 Start: 57539, Stop: 57754, Start Num: 9

Candidate Starts for Cannibal_70:

(Start: 8 @57530 has 7 MA's), (Start: 9 @57539 has 55 MA's), (11, 57578), (16, 57725), (17, 57731),

Gene: Chah_71 Start: 57242, Stop: 57457, Start Num: 9

Candidate Starts for Chah_71:

(Start: 8 @57233 has 7 MA's), (Start: 9 @57242 has 55 MA's), (11, 57281), (16, 57428), (17, 57434),

Gene: Childish_69 Start: 57818, Stop: 58033, Start Num: 9

Candidate Starts for Childish_69:

(Start: 8 @57809 has 7 MA's), (Start: 9 @57818 has 55 MA's), (11, 57857), (16, 58004), (17, 58010),

Gene: Chorkpop_70 Start: 57281, Stop: 57496, Start Num: 9

Candidate Starts for Chorkpop_70:

(Start: 8 @57272 has 7 MA's), (Start: 9 @57281 has 55 MA's), (11, 57320), (16, 57467), (17, 57473),

Gene: Cosmolli16_71 Start: 57999, Stop: 58214, Start Num: 9

Candidate Starts for Cosmolli16_71:

(Start: 8 @57990 has 7 MA's), (Start: 9 @57999 has 55 MA's), (11, 58038), (16, 58185), (17, 58191),

Gene: DaddyDaniels_72 Start: 57775, Stop: 57990, Start Num: 9

Candidate Starts for DaddyDaniels_72:

(Start: 8 @57766 has 7 MA's), (Start: 9 @57775 has 55 MA's), (11, 57814), (16, 57961), (17, 57967),

Gene: Daffy_68 Start: 57266, Stop: 57481, Start Num: 9

Candidate Starts for Daffy_68:

(Start: 8 @57257 has 7 MA's), (Start: 9 @57266 has 55 MA's), (11, 57305), (16, 57452), (17, 57458),

Gene: EleanorGeorge_31 Start: 27905, Stop: 28153, Start Num: 7

Candidate Starts for EleanorGeorge_31:

(Start: 7 @27905 has 4 MA's), (14, 28121),

Gene: Enby_32 Start: 27434, Stop: 27682, Start Num: 7

Candidate Starts for Enby_32:

(Start: 7 @27434 has 4 MA's), (14, 27650),

Gene: Eugenia_70 Start: 57936, Stop: 58151, Start Num: 9

Candidate Starts for Eugenia_70:

(Start: 8 @57927 has 7 MA's), (Start: 9 @57936 has 55 MA's), (11, 57975), (16, 58122), (17, 58128),

Gene: FluffyNinja_70 Start: 57545, Stop: 57760, Start Num: 9

Candidate Starts for FluffyNinja_70:

(Start: 9 @57545 has 55 MA's), (11, 57584), (16, 57731), (17, 57737),

Gene: Frankicide_68 Start: 57327, Stop: 57542, Start Num: 9

Candidate Starts for Frankicide_68:

(Start: 8 @57318 has 7 MA's), (Start: 9 @57327 has 55 MA's), (11, 57366), (16, 57513), (17, 57519),

Gene: GeneCoco_70 Start: 57804, Stop: 58028, Start Num: 8

Candidate Starts for GeneCoco_70:

(Start: 8 @57804 has 7 MA's), (Start: 9 @57813 has 55 MA's), (11, 57852), (16, 57999), (17, 58005),

Gene: Hamish_66 Start: 57196, Stop: 57411, Start Num: 9

Candidate Starts for Hamish_66:

(4, 57052), (Start: 8 @57187 has 7 MA's), (Start: 9 @57196 has 55 MA's), (11, 57235), (16, 57382), (17, 57388),

Gene: HenryJackson_70 Start: 57807, Stop: 58022, Start Num: 9

Candidate Starts for HenryJackson_70:

(Start: 8 @57798 has 7 MA's), (Start: 9 @57807 has 55 MA's), (11, 57846), (16, 57993), (17, 57999),

Gene: Hertubise_69 Start: 57573, Stop: 57788, Start Num: 9

Candidate Starts for Hertubise_69:

(Start: 8 @57564 has 7 MA's), (Start: 9 @57573 has 55 MA's), (11, 57612), (16, 57759), (17, 57765),

Gene: Hetaeria_69 Start: 57513, Stop: 57728, Start Num: 9

Candidate Starts for Hetaeria_69:
(Start: 8 @57504 has 7 MA's), (Start: 9 @57513 has 55 MA's), (11, 57552), (16, 57699), (17, 57705),

Gene: ImtiyazSitla_70 Start: 57497, Stop: 57712, Start Num: 9
Candidate Starts for ImtiyazSitla_70:
(Start: 8 @57488 has 7 MA's), (Start: 9 @57497 has 55 MA's), (11, 57536), (16, 57683), (17, 57689),

Gene: IsaacEli_71 Start: 57796, Stop: 58011, Start Num: 9
Candidate Starts for IsaacEli_71:
(Start: 8 @57787 has 7 MA's), (Start: 9 @57796 has 55 MA's), (11, 57835), (16, 57982), (17, 57988),

Gene: Jillium_70 Start: 57802, Stop: 58017, Start Num: 9
Candidate Starts for Jillium_70:
(Start: 8 @57793 has 7 MA's), (Start: 9 @57802 has 55 MA's), (11, 57841), (16, 57988), (17, 57994),

Gene: Kahve_70 Start: 57804, Stop: 58019, Start Num: 9
Candidate Starts for Kahve_70:
(Start: 8 @57795 has 7 MA's), (Start: 9 @57804 has 55 MA's), (11, 57843), (16, 57990), (17, 57996),

Gene: Katniss_71 Start: 57244, Stop: 57459, Start Num: 9
Candidate Starts for Katniss_71:
(Start: 8 @57235 has 7 MA's), (Start: 9 @57244 has 55 MA's), (11, 57283), (16, 57430), (17, 57436),

Gene: Keitherie_72 Start: 57866, Stop: 58081, Start Num: 9
Candidate Starts for Keitherie_72:
(Start: 8 @57857 has 7 MA's), (Start: 9 @57866 has 55 MA's), (11, 57905), (16, 58052), (17, 58058),

Gene: Kikipoo_71 Start: 57796, Stop: 58011, Start Num: 9
Candidate Starts for Kikipoo_71:
(Start: 8 @57787 has 7 MA's), (Start: 9 @57796 has 55 MA's), (11, 57835), (16, 57982), (17, 57988),

Gene: Kwksand96_70 Start: 57369, Stop: 57593, Start Num: 8
Candidate Starts for Kwksand96_70:
(Start: 8 @57369 has 7 MA's), (Start: 9 @57378 has 55 MA's), (11, 57417), (16, 57564), (17, 57570),

Gene: Lego3393_67 Start: 57823, Stop: 58038, Start Num: 9
Candidate Starts for Lego3393_67:
(Start: 8 @57814 has 7 MA's), (Start: 9 @57823 has 55 MA's), (11, 57862), (16, 58009), (17, 58015),

Gene: Lorde_32 Start: 27409, Stop: 27657, Start Num: 7
Candidate Starts for Lorde_32:
(Start: 7 @27409 has 4 MA's), (14, 27625),

Gene: MRabcd_69 Start: 57584, Stop: 57799, Start Num: 9
Candidate Starts for MRabcd_69:
(Start: 8 @57575 has 7 MA's), (Start: 9 @57584 has 55 MA's), (11, 57623), (16, 57770), (17, 57776),

Gene: Mana_68 Start: 57257, Stop: 57472, Start Num: 9
Candidate Starts for Mana_68:
(Start: 8 @57248 has 7 MA's), (Start: 9 @57257 has 55 MA's), (11, 57296), (16, 57443), (17, 57449),

Gene: Maru_69 Start: 57696, Stop: 57911, Start Num: 9
Candidate Starts for Maru_69:

(Start: 8 @57687 has 7 MA's), (Start: 9 @57696 has 55 MA's), (11, 57735), (16, 57882), (17, 57888),

Gene: Maskar_70 Start: 57497, Stop: 57712, Start Num: 9

Candidate Starts for Maskar_70:

(Start: 8 @57488 has 7 MA's), (Start: 9 @57497 has 55 MA's), (11, 57536), (16, 57683), (17, 57689),

Gene: Matalotodo_69 Start: 58087, Stop: 58311, Start Num: 8

Candidate Starts for Matalotodo_69:

(Start: 8 @58087 has 7 MA's), (Start: 9 @58096 has 55 MA's), (11, 58135), (16, 58282), (17, 58288),

Gene: Megatron_70 Start: 57774, Stop: 57998, Start Num: 8

Candidate Starts for Megatron_70:

(Start: 8 @57774 has 7 MA's), (Start: 9 @57783 has 55 MA's), (11, 57822), (16, 57969), (17, 57975),

Gene: Mesh1_70 Start: 57832, Stop: 58047, Start Num: 9

Candidate Starts for Mesh1_70:

(Start: 8 @57823 has 7 MA's), (Start: 9 @57832 has 55 MA's), (11, 57871), (16, 58018), (17, 58024),

Gene: MitKao_69 Start: 57266, Stop: 57481, Start Num: 9

Candidate Starts for MitKao_69:

(Start: 8 @57257 has 7 MA's), (Start: 9 @57266 has 55 MA's), (11, 57305), (16, 57452), (17, 57458),

Gene: Mosaic_67 Start: 57261, Stop: 57476, Start Num: 9

Candidate Starts for Mosaic_67:

(Start: 8 @57252 has 7 MA's), (Start: 9 @57261 has 55 MA's), (11, 57300), (16, 57447), (17, 57453),

Gene: Mutante_70 Start: 57280, Stop: 57495, Start Num: 9

Candidate Starts for Mutante_70:

(Start: 8 @57271 has 7 MA's), (Start: 9 @57280 has 55 MA's), (11, 57319), (16, 57466), (17, 57472),

Gene: Olak_69 Start: 57284, Stop: 57499, Start Num: 9

Candidate Starts for Olak_69:

(Start: 8 @57275 has 7 MA's), (Start: 9 @57284 has 55 MA's), (11, 57323), (16, 57470), (17, 57476),

Gene: OliverWalter_69 Start: 57603, Stop: 57818, Start Num: 9

Candidate Starts for OliverWalter_69:

(Start: 8 @57594 has 7 MA's), (Start: 9 @57603 has 55 MA's), (11, 57642), (16, 57789), (17, 57795),

Gene: Oosterbaan_69 Start: 57560, Stop: 57775, Start Num: 9

Candidate Starts for Oosterbaan_69:

(Start: 8 @57551 has 7 MA's), (Start: 9 @57560 has 55 MA's), (11, 57599), (16, 57746), (17, 57752),

Gene: Orion_69 Start: 57222, Stop: 57437, Start Num: 9

Candidate Starts for Orion_69:

(Start: 8 @57213 has 7 MA's), (Start: 9 @57222 has 55 MA's), (11, 57261), (16, 57408), (17, 57414),

Gene: PG1_69 Start: 57793, Stop: 58008, Start Num: 9

Candidate Starts for PG1_69:

(Start: 8 @57784 has 7 MA's), (Start: 9 @57793 has 55 MA's), (11, 57832), (16, 57979), (17, 57985),

Gene: PhatCats2014_70 Start: 57789, Stop: 58013, Start Num: 8

Candidate Starts for PhatCats2014_70:

(Start: 8 @57789 has 7 MA's), (Start: 9 @57798 has 55 MA's), (11, 57837), (16, 57984), (17, 57990),

Gene: Pherdinand_70 Start: 57547, Stop: 57762, Start Num: 9
Candidate Starts for Pherdinand_70:
(Start: 9 @57547 has 55 MA's), (11, 57586), (16, 57733), (17, 57739),

Gene: Phipps_69 Start: 57345, Stop: 57560, Start Num: 9
Candidate Starts for Phipps_69:
(Start: 8 @57336 has 7 MA's), (Start: 9 @57345 has 55 MA's), (11, 57384), (16, 57531), (17, 57537),

Gene: PhrodoBaggins_71 Start: 57642, Stop: 57866, Start Num: 8
Candidate Starts for PhrodoBaggins_71:
(Start: 8 @57642 has 7 MA's), (Start: 9 @57651 has 55 MA's), (11, 57690), (16, 57837), (17, 57843),

Gene: Piglet_0070 Start: 57761, Stop: 57985, Start Num: 8
Candidate Starts for Piglet_0070:
(Start: 8 @57761 has 7 MA's), (Start: 9 @57770 has 55 MA's), (11, 57809), (16, 57956), (17, 57962),

Gene: Pinkman_69 Start: 57360, Stop: 57584, Start Num: 8
Candidate Starts for Pinkman_69:
(Start: 8 @57360 has 7 MA's), (Start: 9 @57369 has 55 MA's), (11, 57408), (16, 57555), (17, 57561),

Gene: SG4_31 Start: 27919, Stop: 28167, Start Num: 7
Candidate Starts for SG4_31:
(Start: 7 @27919 has 4 MA's), (14, 28135),

Gene: Scoot17C_70 Start: 57224, Stop: 57439, Start Num: 9
Candidate Starts for Scoot17C_70:
(Start: 8 @57215 has 7 MA's), (Start: 9 @57224 has 55 MA's), (11, 57263), (16, 57410), (17, 57416),

Gene: Serendipity_69 Start: 57579, Stop: 57794, Start Num: 9
Candidate Starts for Serendipity_69:
(Start: 8 @57570 has 7 MA's), (Start: 9 @57579 has 55 MA's), (11, 57618), (16, 57765), (17, 57771),

Gene: Serpentine_0070 Start: 57662, Stop: 57877, Start Num: 9
Candidate Starts for Serpentine_0070:
(Start: 8 @57653 has 7 MA's), (Start: 9 @57662 has 55 MA's), (11, 57701), (16, 57848), (17, 57854),

Gene: Skippy_71 Start: 57515, Stop: 57730, Start Num: 9
Candidate Starts for Skippy_71:
(Start: 8 @57506 has 7 MA's), (Start: 9 @57515 has 55 MA's), (11, 57554), (16, 57701), (17, 57707),

Gene: Swish_70 Start: 57532, Stop: 57747, Start Num: 9
Candidate Starts for Swish_70:
(Start: 9 @57532 has 55 MA's), (11, 57571), (16, 57718), (17, 57724),

Gene: TallGrassMM_68 Start: 57172, Stop: 57387, Start Num: 9
Candidate Starts for TallGrassMM_68:
(Start: 8 @57163 has 7 MA's), (Start: 9 @57172 has 55 MA's), (11, 57211), (16, 57358), (17, 57364),

Gene: Thora_68 Start: 57612, Stop: 57827, Start Num: 9
Candidate Starts for Thora_68:
(Start: 8 @57603 has 7 MA's), (Start: 9 @57612 has 55 MA's), (11, 57651), (16, 57798), (17, 57804),

Gene: ThreeOh3D2_71 Start: 57789, Stop: 58004, Start Num: 9

Candidate Starts for ThreeOh3D2_71:

(Start: 8 @57780 has 7 MA's), (Start: 9 @57789 has 55 MA's), (11, 57828), (16, 57975), (17, 57981),

Gene: UAch1_70 Start: 57513, Stop: 57728, Start Num: 9

Candidate Starts for UAch1_70:

(Start: 8 @57504 has 7 MA's), (Start: 9 @57513 has 55 MA's), (11, 57552), (16, 57699), (17, 57705),

Gene: Vista_68 Start: 57268, Stop: 57483, Start Num: 9

Candidate Starts for Vista_68:

(Start: 8 @57259 has 7 MA's), (Start: 9 @57268 has 55 MA's), (11, 57307), (16, 57454), (17, 57460),

Gene: Wallhey_70 Start: 57375, Stop: 57590, Start Num: 9

Candidate Starts for Wallhey_70:

(Start: 8 @57366 has 7 MA's), (Start: 9 @57375 has 55 MA's), (11, 57414), (16, 57561), (17, 57567),

Gene: Waterdiva_70 Start: 57645, Stop: 57860, Start Num: 9

Candidate Starts for Waterdiva_70:

(Start: 8 @57636 has 7 MA's), (Start: 9 @57645 has 55 MA's), (11, 57684), (16, 57831), (17, 57837),

Gene: Xavier_69 Start: 57273, Stop: 57488, Start Num: 9

Candidate Starts for Xavier_69:

(Start: 8 @57264 has 7 MA's), (Start: 9 @57273 has 55 MA's), (11, 57312), (16, 57459), (17, 57465),

Gene: Yoshand_70 Start: 57545, Stop: 57760, Start Num: 9

Candidate Starts for Yoshand_70:

(Start: 9 @57545 has 55 MA's), (11, 57584), (16, 57731), (17, 57737),

Gene: Zonia_70 Start: 57826, Stop: 58041, Start Num: 9

Candidate Starts for Zonia_70:

(Start: 8 @57817 has 7 MA's), (Start: 9 @57826 has 55 MA's), (11, 57865), (16, 58012), (17, 58018),