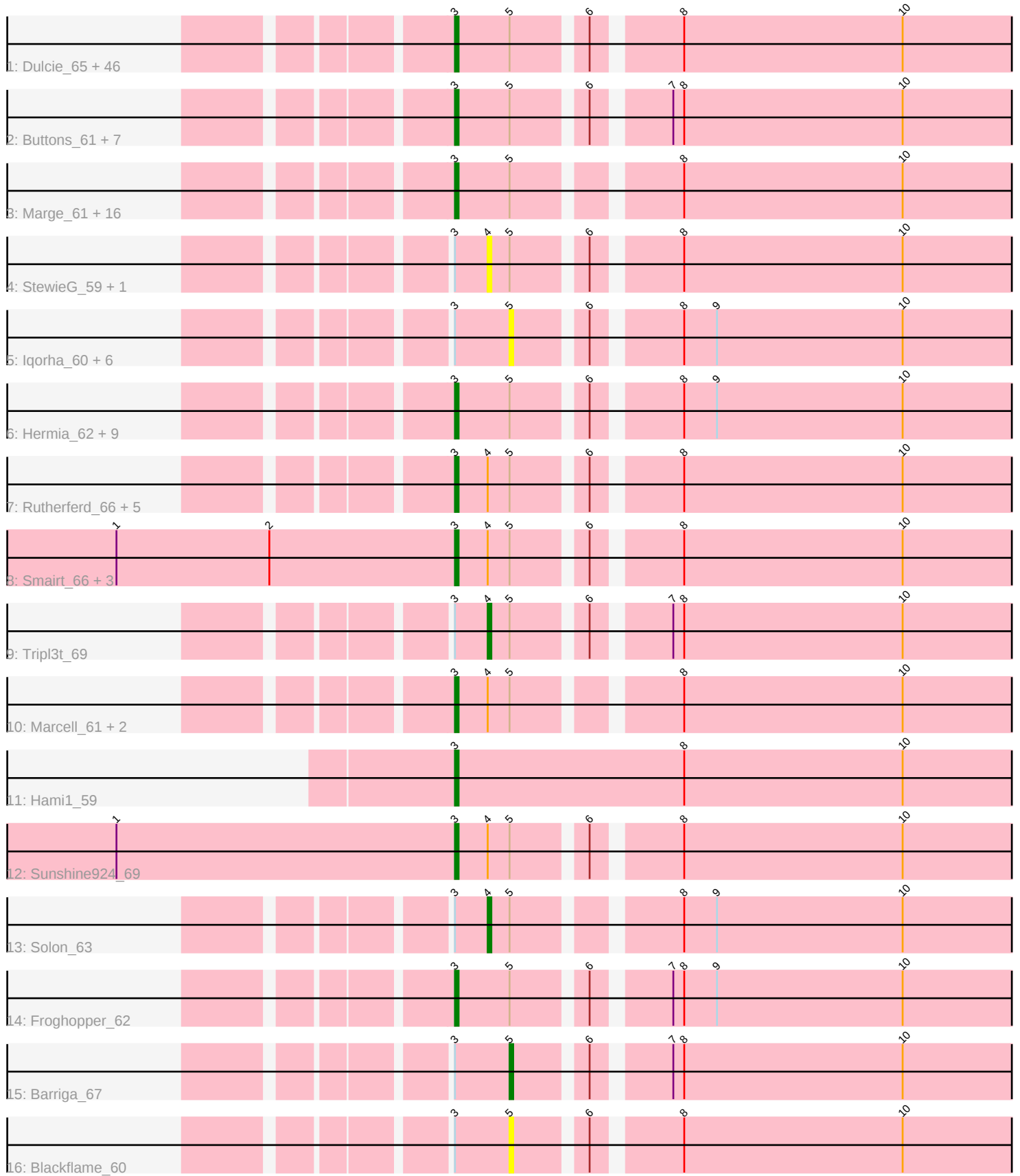


Pham 280254



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 280254 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280254 has 111 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Dulcie_65, Smeagol_67, Homines_56, KSSJEB_64, Rohr_66, Gyzlar_60, Payneful_62, Peterson_68, Pinto_65, Licorice_65, BeesKnees_67, Sagefire_66, Adahisdi_64, Doom_62, JackSparrow_68, HarryOW_62, Gachnar_65, Levia_62, Treddle_65, Killigrew_63, Fajezeel_65, Mkhusei_60, BigPaolini_61, Acme_66, Chanagan_58, LilBib_64, Lesedi_61, Ajay_64, Sandaddy_62, PinkPlastic_64, Zeuska_70, Jerm2_66, Parliament_66, Sorpresa_63, Watermelon_64, Paphu_64, Tasp14_68, PascalRango_62, PhineBark_64, Marchy_58, McGuire_65, Dynamix_66, LunarLander_64, Greg_65, Fushigi_60, DreamCatcher_67, Alvin_64
- Track 2 : Buttons_61, NEHalo_62, AFIS_61, SpikeBT_63, GageAP_66, Oogway_63, Violet_62, Crispicous1_62
- Track 3 : Marge_61, KyMonks1A_69, Bones_63, Puppet_62, Wheeler_67, Monet_67, Edtherson_63, Eyeball_66, Moose_66, Perseus_63, MaryBeth_62, SwissCheese_68, Lopton_65, MetalQZJ_61, Corvo_65, Forsytheast_66, Norz_64
- Track 4 : StewieG_59, Phlippers_60
- Track 5 : Iqorha_60, CatBus_60, Noxious_61, Aldrich_60, KikiBouba_62, Inyanga_60, ShortQueendom_56
- Track 6 : Hermia_62, Magnar_64, McSinger_62, GroundGoblin_61, Pippin_64, Snazzy_62, Lamina13_68, Bigchungji_63, Bxb1_58, Ciao_62
- Track 7 : Rutherford_66, Wilkins_63, Topgun_62, Cueilyss_64, Seanderson_67, Big3_65
- Track 8 : Smairt_66, PhrostyMug_64, Mule_61, Aeneas_67
- Track 9 : Tripl3t_69
- Track 10 : Marcell_61, Trouble_65, Whitspit_60
- Track 11 : Hami1_59
- Track 12 : Sunshine924_69
- Track 13 : Solon_63
- Track 14 : FrogHopper_62
- Track 15 : Barriga_67
- Track 16 : Blackflame_60

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

The start number called the most often in the published annotations is 3, it was called in 92 of the 95 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AFIS_61, Acme_66, Adahisdi_64, Aeneas_67, Ajay_64, Alvin_64, BeesKnees_67, Big3_65, BigPaolini_61, Bigchunggi_63, Bones_63, Buttons_61, Bxb1_58, Chanagan_58, Ciao_62, Corvo_65, Crispicous1_62, Cueylyss_64, Doom_62, DreamCatcher_67, Dulcie_65, Dynamix_66, Edtherson_63, Eyeball_66, Fajezeel_65, Forsytheast_66, Froghopper_62, Fushigi_60, Gachnar_65, GageAP_66, Greg_65, GroundGoblin_61, Gyzlar_60, Hami1_59, HarryOW_62, Hermia_62, Homines_56, JackSparrow_68, Jerm2_66, KSSJEB_64, Killigrew_63, KyMonks1A_69, Lamina13_68, Lesedi_61, Levia_62, Licorice_65, LilBib_64, Lopton_65, LunarLander_64, Magnar_64, Marcell_61, Marchy_58, Marge_61, MaryBeth_62, McGuire_65, McSinger_62, MetalQZJ_61, Mkhuse1i_60, Monet_67, Moose_66, Mule_61, NEHalo_62, Norz_64, Oogway_63, Paphu_64, Parliament_66, PascalRango_62, Payneful_62, Perseus_63, Peterson_68, PhineBark_64, PhrostyMug_64, PinkPlastic_64, Pinto_65, Pippin_64, Puppet_62, Rohr_66, Rutherford_66, Sagefire_66, Sandaddy_62, Seanderson_67, Smairt_66, Smeagol_67, Snazzy_62, Sorpresa_63, SpikeBT_63, Sunshine924_69, SwissCheese_68, Tasp14_68, Topgun_62, Treddle_65, Trouble_65, Violet_62, Watermelon_64, Wheeler_67, Whispit_60, Wilkins_63, Zeuska_70,

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

- Aldrich_60, Barriga_67, Blackflame_60, CatBus_60, Inyanga_60, Iqorha_60, KikiBouba_62, Noxious_61, Phlippers_60, ShortQueendom_56, Solon_63, StewieG_59, Tripl3t_69,

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

-

Summary by start number:

Start 3:

- Found in 111 of 111 (100.0%) of genes in pham
- Manual Annotations of this start: 92 of 95
- Called 88.3% of time when present
- Phage (with cluster) where this start called: AFIS_61 (A1), Acme_66 (A1), Adahisdi_64 (A1), Aeneas_67 (A1), Ajay_64 (A1), Alvin_64 (A1), BeesKnees_67 (A1), Big3_65 (A1), BigPaolini_61 (A1), Bigchunggi_63 (A1), Bones_63 (A1), Buttons_61 (A1), Bxb1_58 (A1), Chanagan_58 (A1), Ciao_62 (A1), Corvo_65 (A1), Crispicous1_62 (A1), Cueylyss_64 (A1), Doom_62 (A1), DreamCatcher_67 (A1), Dulcie_65 (A1), Dynamix_66 (A1), Edtherson_63 (A1), Eyeball_66 (A1), Fajezeel_65 (A1), Forsytheast_66 (A1), Froghopper_62 (A1), Fushigi_60 (A1), Gachnar_65 (A1), GageAP_66 (A1), Greg_65 (A1), GroundGoblin_61 (A1), Gyzlar_60 (A1), Hami1_59 (A1), HarryOW_62 (A1), Hermia_62 (A1), Homines_56 (A1), JackSparrow_68 (A1), Jerm2_66 (A1), KSSJEB_64 (A1), Killigrew_63 (A1), KyMonks1A_69 (A1), Lamina13_68 (A1), Lesedi_61 (A1), Levia_62 (A1), Licorice_65 (A1), LilBib_64 (A1), Lopton_65 (A1), LunarLander_64 (A1), Magnar_64 (A1), Marcell_61 (A1), Marchy_58 (A1), Marge_61 (A1), MaryBeth_62 (A1), McGuire_65 (A1), McSinger_62 (A1), MetalQZJ_61 (A1), Mkhuse1i_60 (A1), Monet_67 (A1), Moose_66 (A1), Mule_61 (A1), NEHalo_62 (A1), Norz_64 (A1), Oogway_63 (A1), Paphu_64 (A1), Parliament_66 (A1), PascalRango_62 (A1), Payneful_62 (A1), Perseus_63 (A1), Peterson_68 (A1), PhineBark_64 (A1), PhrostyMug_64 (A1), PinkPlastic_64 (A1), Pinto_65 (A1), Pippin_64 (A1), Puppet_62 (A1), Rohr_66 (A1), Rutherford_66 (A1), Sagefire_66 (A1), Sandaddy_62 (A1), Seanderson_67 (A1), Smairt_66 (A1), Smeagol_67 (A1),

Snazzy_62 (A1), Sorpresa_63 (A1), SpikeBT_63 (A1), Sunshine924_69 (A1), SwissCheese_68 (A1), Tasp14_68 (A1), Topgun_62 (A1), Treddle_65 (A1), Trouble_65 (A1), Violet_62 (A1), Watermelon_64 (A1), Wheeler_67 (A1), Whitspit_60 (A1), Wilkins_63 (A1), Zeuska_70 (A1),

Start 4:

- Found in 18 of 111 (16.2%) of genes in pham
- Manual Annotations of this start: 2 of 95
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Phlipppers_60 (A1), Solon_63 (A1), StewieG_59 (A1), Tripl3t_69 (A1),

Start 5:

- Found in 110 of 111 (99.1%) of genes in pham
- Manual Annotations of this start: 1 of 95
- Called 8.2% of time when present
- Phage (with cluster) where this start called: Aldrich_60 (A1), Barriga_67 (A1), Blackflame_60 (A1), CatBus_60 (A1), Inyanga_60 (A1), Iqorha_60 (A1), KikiBouba_62 (A1), Noxious_61 (A1), ShortQueendom_56 (A1),

Summary by clusters:

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:

- Start number 3 was manually annotated 92 times for cluster A1.
- Start number 4 was manually annotated 2 times for cluster A1.
- Start number 5 was manually annotated 1 time for cluster A1.

Gene Information:

Gene: AFIS_61 Start: 41478, Stop: 41332, Start Num: 3

Candidate Starts for AFIS_61:

(Start: 3 @41478 has 92 MA's), (Start: 5 @41463 has 1 MA's), (6, 41445), (7, 41427), (8, 41424), (10, 41364),

Gene: Acme_66 Start: 42534, Stop: 42388, Start Num: 3

Candidate Starts for Acme_66:

(Start: 3 @42534 has 92 MA's), (Start: 5 @42519 has 1 MA's), (6, 42501), (8, 42480), (10, 42420),

Gene: Adahisdi_64 Start: 43478, Stop: 43332, Start Num: 3

Candidate Starts for Adahisdi_64:

(Start: 3 @43478 has 92 MA's), (Start: 5 @43463 has 1 MA's), (6, 43445), (8, 43424), (10, 43364),

Gene: Aeneas_67 Start: 44036, Stop: 43890, Start Num: 3

Candidate Starts for Aeneas_67:

(1, 44129), (2, 44087), (Start: 3 @44036 has 92 MA's), (Start: 4 @44027 has 2 MA's), (Start: 5 @44021 has 1 MA's), (6, 44003), (8, 43982), (10, 43922),

Gene: Ajay_64 Start: 42424, Stop: 42278, Start Num: 3

Candidate Starts for Ajay_64:

(Start: 3 @42424 has 92 MA's), (Start: 5 @42409 has 1 MA's), (6, 42391), (8, 42370), (10, 42310),

Gene: Aldrich_60 Start: 41696, Stop: 41565, Start Num: 5

Candidate Starts for Aldrich_60:

(Start: 3 @41711 has 92 MA's), (Start: 5 @41696 has 1 MA's), (6, 41678), (8, 41657), (9, 41648), (10, 41597),

Gene: Alvin_64 Start: 42306, Stop: 42160, Start Num: 3

Candidate Starts for Alvin_64:

(Start: 3 @42306 has 92 MA's), (Start: 5 @42291 has 1 MA's), (6, 42273), (8, 42252), (10, 42192),

Gene: Barriga_67 Start: 41147, Stop: 41016, Start Num: 5

Candidate Starts for Barriga_67:

(Start: 3 @41162 has 92 MA's), (Start: 5 @41147 has 1 MA's), (6, 41129), (7, 41111), (8, 41108), (10, 41048),

Gene: BeesKnees_67 Start: 41713, Stop: 41567, Start Num: 3

Candidate Starts for BeesKnees_67:

(Start: 3 @41713 has 92 MA's), (Start: 5 @41698 has 1 MA's), (6, 41680), (8, 41659), (10, 41599),

Gene: Big3_65 Start: 43493, Stop: 43347, Start Num: 3

Candidate Starts for Big3_65:

(Start: 3 @43493 has 92 MA's), (Start: 4 @43484 has 2 MA's), (Start: 5 @43478 has 1 MA's), (6, 43460), (8, 43439), (10, 43379),

Gene: BigPaolini_61 Start: 40150, Stop: 40004, Start Num: 3

Candidate Starts for BigPaolini_61:

(Start: 3 @40150 has 92 MA's), (Start: 5 @40135 has 1 MA's), (6, 40117), (8, 40096), (10, 40036),

Gene: Bigchungji_63 Start: 41942, Stop: 41796, Start Num: 3

Candidate Starts for Bigchungji_63:

(Start: 3 @41942 has 92 MA's), (Start: 5 @41927 has 1 MA's), (6, 41909), (8, 41888), (9, 41879), (10, 41828),

Gene: Blackflame_60 Start: 41674, Stop: 41543, Start Num: 5

Candidate Starts for Blackflame_60:

(Start: 3 @41689 has 92 MA's), (Start: 5 @41674 has 1 MA's), (6, 41656), (8, 41635), (10, 41575),

Gene: Bones_63 Start: 43200, Stop: 43054, Start Num: 3

Candidate Starts for Bones_63:

(Start: 3 @43200 has 92 MA's), (Start: 5 @43185 has 1 MA's), (8, 43146), (10, 43086),

Gene: Buttons_61 Start: 39664, Stop: 39518, Start Num: 3

Candidate Starts for Buttons_61:

(Start: 3 @39664 has 92 MA's), (Start: 5 @39649 has 1 MA's), (6, 39631), (7, 39613), (8, 39610), (10, 39550),

Gene: Bxb1_58 Start: 40777, Stop: 40631, Start Num: 3

Candidate Starts for Bxb1_58:

(Start: 3 @40777 has 92 MA's), (Start: 5 @40762 has 1 MA's), (6, 40744), (8, 40723), (9, 40714), (10, 40663),

Gene: CatBus_60 Start: 41888, Stop: 41757, Start Num: 5

Candidate Starts for CatBus_60:

(Start: 3 @41903 has 92 MA's), (Start: 5 @41888 has 1 MA's), (6, 41870), (8, 41849), (9, 41840), (10, 41789),

Gene: Chanagan_58 Start: 39758, Stop: 39612, Start Num: 3

Candidate Starts for Chanagan_58:

(Start: 3 @39758 has 92 MA's), (Start: 5 @39743 has 1 MA's), (6, 39725), (8, 39704), (10, 39644),

Gene: Ciao_62 Start: 41122, Stop: 40976, Start Num: 3

Candidate Starts for Ciao_62:

(Start: 3 @41122 has 92 MA's), (Start: 5 @41107 has 1 MA's), (6, 41089), (8, 41068), (9, 41059), (10, 41008),

Gene: Corvo_65 Start: 43053, Stop: 42907, Start Num: 3

Candidate Starts for Corvo_65:

(Start: 3 @43053 has 92 MA's), (Start: 5 @43038 has 1 MA's), (8, 42999), (10, 42939),

Gene: Crispicous1_62 Start: 41464, Stop: 41318, Start Num: 3

Candidate Starts for Crispicous1_62:

(Start: 3 @41464 has 92 MA's), (Start: 5 @41449 has 1 MA's), (6, 41431), (7, 41413), (8, 41410), (10, 41350),

Gene: Cueylyss_64 Start: 43400, Stop: 43254, Start Num: 3

Candidate Starts for Cueylyss_64:

(Start: 3 @43400 has 92 MA's), (Start: 4 @43391 has 2 MA's), (Start: 5 @43385 has 1 MA's), (6, 43367), (8, 43346), (10, 43286),

Gene: Doom_62 Start: 42609, Stop: 42463, Start Num: 3

Candidate Starts for Doom_62:

(Start: 3 @42609 has 92 MA's), (Start: 5 @42594 has 1 MA's), (6, 42576), (8, 42555), (10, 42495),

Gene: DreamCatcher_67 Start: 42693, Stop: 42547, Start Num: 3

Candidate Starts for DreamCatcher_67:

(Start: 3 @42693 has 92 MA's), (Start: 5 @42678 has 1 MA's), (6, 42660), (8, 42639), (10, 42579),

Gene: Dulcie_65 Start: 44018, Stop: 43872, Start Num: 3

Candidate Starts for Dulcie_65:

(Start: 3 @44018 has 92 MA's), (Start: 5 @44003 has 1 MA's), (6, 43985), (8, 43964), (10, 43904),

Gene: Dynamix_66 Start: 41617, Stop: 41471, Start Num: 3

Candidate Starts for Dynamix_66:

(Start: 3 @41617 has 92 MA's), (Start: 5 @41602 has 1 MA's), (6, 41584), (8, 41563), (10, 41503),

Gene: Edtherson_63 Start: 42603, Stop: 42457, Start Num: 3

Candidate Starts for Edtherson_63:

(Start: 3 @42603 has 92 MA's), (Start: 5 @42588 has 1 MA's), (8, 42549), (10, 42489),

Gene: Eyeball_66 Start: 43108, Stop: 42962, Start Num: 3

Candidate Starts for Eyeball_66:

(Start: 3 @43108 has 92 MA's), (Start: 5 @43093 has 1 MA's), (8, 43054), (10, 42994),

Gene: Fajezeel_65 Start: 41824, Stop: 41678, Start Num: 3

Candidate Starts for Fajezeel_65:

(Start: 3 @41824 has 92 MA's), (Start: 5 @41809 has 1 MA's), (6, 41791), (8, 41770), (10, 41710),

Gene: Forsytheast_66 Start: 42122, Stop: 41976, Start Num: 3

Candidate Starts for Forsytheast_66:

(Start: 3 @42122 has 92 MA's), (Start: 5 @42107 has 1 MA's), (8, 42068), (10, 42008),

Gene: Froghopper_62 Start: 41181, Stop: 41035, Start Num: 3

Candidate Starts for Froghopper_62:

(Start: 3 @41181 has 92 MA's), (Start: 5 @41166 has 1 MA's), (6, 41148), (7, 41130), (8, 41127), (9, 41118), (10, 41067),

Gene: Fushigi_60 Start: 40144, Stop: 39998, Start Num: 3

Candidate Starts for Fushigi_60:

(Start: 3 @40144 has 92 MA's), (Start: 5 @40129 has 1 MA's), (6, 40111), (8, 40090), (10, 40030),

Gene: Gachnar_65 Start: 42658, Stop: 42512, Start Num: 3

Candidate Starts for Gachnar_65:

(Start: 3 @42658 has 92 MA's), (Start: 5 @42643 has 1 MA's), (6, 42625), (8, 42604), (10, 42544),

Gene: GageAP_66 Start: 43145, Stop: 42999, Start Num: 3

Candidate Starts for GageAP_66:

(Start: 3 @43145 has 92 MA's), (Start: 5 @43130 has 1 MA's), (6, 43112), (7, 43094), (8, 43091), (10, 43031),

Gene: Greg_65 Start: 41824, Stop: 41678, Start Num: 3

Candidate Starts for Greg_65:

(Start: 3 @41824 has 92 MA's), (Start: 5 @41809 has 1 MA's), (6, 41791), (8, 41770), (10, 41710),

Gene: GroundGoblin_61 Start: 41853, Stop: 41707, Start Num: 3

Candidate Starts for GroundGoblin_61:

(Start: 3 @41853 has 92 MA's), (Start: 5 @41838 has 1 MA's), (6, 41820), (8, 41799), (9, 41790), (10, 41739),

Gene: Gyzlar_60 Start: 40094, Stop: 39948, Start Num: 3

Candidate Starts for Gyzlar_60:

(Start: 3 @40094 has 92 MA's), (Start: 5 @40079 has 1 MA's), (6, 40061), (8, 40040), (10, 39980),

Gene: Hami1_59 Start: 37896, Stop: 37741, Start Num: 3

Candidate Starts for Hami1_59:

(Start: 3 @37896 has 92 MA's), (8, 37833), (10, 37773),

Gene: HarryOW_62 Start: 41905, Stop: 41759, Start Num: 3

Candidate Starts for HarryOW_62:

(Start: 3 @41905 has 92 MA's), (Start: 5 @41890 has 1 MA's), (6, 41872), (8, 41851), (10, 41791),

Gene: Hermia_62 Start: 41903, Stop: 41757, Start Num: 3

Candidate Starts for Hermia_62:

(Start: 3 @41903 has 92 MA's), (Start: 5 @41888 has 1 MA's), (6, 41870), (8, 41849), (9, 41840), (10, 41789),

Gene: Homines_56 Start: 38233, Stop: 38087, Start Num: 3

Candidate Starts for Homines_56:

(Start: 3 @38233 has 92 MA's), (Start: 5 @38218 has 1 MA's), (6, 38200), (8, 38179), (10, 38119),

Gene: Inyanga_60 Start: 42182, Stop: 42051, Start Num: 5

Candidate Starts for Inyanga_60:

(Start: 3 @42197 has 92 MA's), (Start: 5 @42182 has 1 MA's), (6, 42164), (8, 42143), (9, 42134), (10, 42083),

Gene: Iqorha_60 Start: 42181, Stop: 42050, Start Num: 5

Candidate Starts for Iqorha_60:

(Start: 3 @42196 has 92 MA's), (Start: 5 @42181 has 1 MA's), (6, 42163), (8, 42142), (9, 42133), (10, 42082),

Gene: JackSparrow_68 Start: 42619, Stop: 42473, Start Num: 3

Candidate Starts for JackSparrow_68:

(Start: 3 @42619 has 92 MA's), (Start: 5 @42604 has 1 MA's), (6, 42586), (8, 42565), (10, 42505),

Gene: Jerm2_66 Start: 43478, Stop: 43332, Start Num: 3

Candidate Starts for Jerm2_66:

(Start: 3 @43478 has 92 MA's), (Start: 5 @43463 has 1 MA's), (6, 43445), (8, 43424), (10, 43364),

Gene: KSSJEB_64 Start: 41531, Stop: 41385, Start Num: 3

Candidate Starts for KSSJEB_64:

(Start: 3 @41531 has 92 MA's), (Start: 5 @41516 has 1 MA's), (6, 41498), (8, 41477), (10, 41417),

Gene: KikiBouba_62 Start: 41697, Stop: 41566, Start Num: 5

Candidate Starts for KikiBouba_62:

(Start: 3 @41712 has 92 MA's), (Start: 5 @41697 has 1 MA's), (6, 41679), (8, 41658), (9, 41649), (10, 41598),

Gene: Killigrew_63 Start: 42335, Stop: 42189, Start Num: 3

Candidate Starts for Killigrew_63:

(Start: 3 @42335 has 92 MA's), (Start: 5 @42320 has 1 MA's), (6, 42302), (8, 42281), (10, 42221),

Gene: KyMonks1A_69 Start: 42496, Stop: 42350, Start Num: 3

Candidate Starts for KyMonks1A_69:

(Start: 3 @42496 has 92 MA's), (Start: 5 @42481 has 1 MA's), (8, 42442), (10, 42382),

Gene: Lamina13_68 Start: 43488, Stop: 43342, Start Num: 3

Candidate Starts for Lamina13_68:

(Start: 3 @43488 has 92 MA's), (Start: 5 @43473 has 1 MA's), (6, 43455), (8, 43434), (9, 43425), (10, 43374),

Gene: Lesedi_61 Start: 40563, Stop: 40417, Start Num: 3

Candidate Starts for Lesedi_61:

(Start: 3 @40563 has 92 MA's), (Start: 5 @40548 has 1 MA's), (6, 40530), (8, 40509), (10, 40449),

Gene: Levia_62 Start: 41480, Stop: 41334, Start Num: 3

Candidate Starts for Levia_62:

(Start: 3 @41480 has 92 MA's), (Start: 5 @41465 has 1 MA's), (6, 41447), (8, 41426), (10, 41366),

Gene: Licorice_65 Start: 43597, Stop: 43451, Start Num: 3

Candidate Starts for Licorice_65:

(Start: 3 @43597 has 92 MA's), (Start: 5 @43582 has 1 MA's), (6, 43564), (8, 43543), (10, 43483),

Gene: LilBib_64 Start: 43581, Stop: 43435, Start Num: 3

Candidate Starts for LilBib_64:

(Start: 3 @43581 has 92 MA's), (Start: 5 @43566 has 1 MA's), (6, 43548), (8, 43527), (10, 43467),

Gene: Lopton_65 Start: 44150, Stop: 44004, Start Num: 3

Candidate Starts for Lopton_65:

(Start: 3 @44150 has 92 MA's), (Start: 5 @44135 has 1 MA's), (8, 44096), (10, 44036),

Gene: LunarLander_64 Start: 42776, Stop: 42630, Start Num: 3

Candidate Starts for LunarLander_64:

(Start: 3 @42776 has 92 MA's), (Start: 5 @42761 has 1 MA's), (6, 42743), (8, 42722), (10, 42662),

Gene: Magnar_64 Start: 42369, Stop: 42223, Start Num: 3

Candidate Starts for Magnar_64:

(Start: 3 @42369 has 92 MA's), (Start: 5 @42354 has 1 MA's), (6, 42336), (8, 42315), (9, 42306), (10, 42255),

Gene: Marcell_61 Start: 41076, Stop: 40930, Start Num: 3

Candidate Starts for Marcell_61:

(Start: 3 @41076 has 92 MA's), (Start: 4 @41067 has 2 MA's), (Start: 5 @41061 has 1 MA's), (8, 41022), (10, 40962),

Gene: Marchy_58 Start: 38814, Stop: 38668, Start Num: 3

Candidate Starts for Marchy_58:

(Start: 3 @38814 has 92 MA's), (Start: 5 @38799 has 1 MA's), (6, 38781), (8, 38760), (10, 38700),

Gene: Marge_61 Start: 41606, Stop: 41460, Start Num: 3

Candidate Starts for Marge_61:

(Start: 3 @41606 has 92 MA's), (Start: 5 @41591 has 1 MA's), (8, 41552), (10, 41492),

Gene: MaryBeth_62 Start: 42430, Stop: 42284, Start Num: 3

Candidate Starts for MaryBeth_62:

(Start: 3 @42430 has 92 MA's), (Start: 5 @42415 has 1 MA's), (8, 42376), (10, 42316),

Gene: McGuire_65 Start: 41400, Stop: 41254, Start Num: 3

Candidate Starts for McGuire_65:

(Start: 3 @41400 has 92 MA's), (Start: 5 @41385 has 1 MA's), (6, 41367), (8, 41346), (10, 41286),

Gene: McSinger_62 Start: 41349, Stop: 41203, Start Num: 3

Candidate Starts for McSinger_62:

(Start: 3 @41349 has 92 MA's), (Start: 5 @41334 has 1 MA's), (6, 41316), (8, 41295), (9, 41286), (10, 41235),

Gene: MetalQZJ_61 Start: 42430, Stop: 42284, Start Num: 3

Candidate Starts for MetalQZJ_61:

(Start: 3 @42430 has 92 MA's), (Start: 5 @42415 has 1 MA's), (8, 42376), (10, 42316),

Gene: Mkhuseli_60 Start: 40468, Stop: 40322, Start Num: 3

Candidate Starts for Mkhuseli_60:

(Start: 3 @40468 has 92 MA's), (Start: 5 @40453 has 1 MA's), (6, 40435), (8, 40414), (10, 40354),

Gene: Monet_67 Start: 43994, Stop: 43848, Start Num: 3

Candidate Starts for Monet_67:

(Start: 3 @43994 has 92 MA's), (Start: 5 @43979 has 1 MA's), (8, 43940), (10, 43880),

Gene: Moose_66 Start: 42122, Stop: 41976, Start Num: 3

Candidate Starts for Moose_66:

(Start: 3 @42122 has 92 MA's), (Start: 5 @42107 has 1 MA's), (8, 42068), (10, 42008),

Gene: Mule_61 Start: 41409, Stop: 41263, Start Num: 3

Candidate Starts for Mule_61:

(1, 41502), (2, 41460), (Start: 3 @41409 has 92 MA's), (Start: 4 @41400 has 2 MA's), (Start: 5 @41394 has 1 MA's), (6, 41376), (8, 41355), (10, 41295),

Gene: NEHalo_62 Start: 42546, Stop: 42400, Start Num: 3

Candidate Starts for NEHalo_62:

(Start: 3 @42546 has 92 MA's), (Start: 5 @42531 has 1 MA's), (6, 42513), (7, 42495), (8, 42492), (10, 42432),

Gene: Norz_64 Start: 44422, Stop: 44276, Start Num: 3

Candidate Starts for Norz_64:

(Start: 3 @44422 has 92 MA's), (Start: 5 @44407 has 1 MA's), (8, 44368), (10, 44308),

Gene: Noxious_61 Start: 41888, Stop: 41757, Start Num: 5

Candidate Starts for Noxious_61:

(Start: 3 @41903 has 92 MA's), (Start: 5 @41888 has 1 MA's), (6, 41870), (8, 41849), (9, 41840), (10, 41789),

Gene: Oogway_63 Start: 43065, Stop: 42919, Start Num: 3

Candidate Starts for Oogway_63:

(Start: 3 @43065 has 92 MA's), (Start: 5 @43050 has 1 MA's), (6, 43032), (7, 43014), (8, 43011), (10, 42951),

Gene: Paphu_64 Start: 42876, Stop: 42730, Start Num: 3

Candidate Starts for Paphu_64:

(Start: 3 @42876 has 92 MA's), (Start: 5 @42861 has 1 MA's), (6, 42843), (8, 42822), (10, 42762),

Gene: Parliament_66 Start: 44668, Stop: 44522, Start Num: 3

Candidate Starts for Parliament_66:

(Start: 3 @44668 has 92 MA's), (Start: 5 @44653 has 1 MA's), (6, 44635), (8, 44614), (10, 44554),

Gene: PascalRango_62 Start: 41863, Stop: 41717, Start Num: 3

Candidate Starts for PascalRango_62:

(Start: 3 @41863 has 92 MA's), (Start: 5 @41848 has 1 MA's), (6, 41830), (8, 41809), (10, 41749),

Gene: Payneful_62 Start: 41531, Stop: 41385, Start Num: 3

Candidate Starts for Payneful_62:

(Start: 3 @41531 has 92 MA's), (Start: 5 @41516 has 1 MA's), (6, 41498), (8, 41477), (10, 41417),

Gene: Perseus_63 Start: 43814, Stop: 43668, Start Num: 3

Candidate Starts for Perseus_63:

(Start: 3 @43814 has 92 MA's), (Start: 5 @43799 has 1 MA's), (8, 43760), (10, 43700),

Gene: Peterson_68 Start: 44680, Stop: 44534, Start Num: 3

Candidate Starts for Peterson_68:

(Start: 3 @44680 has 92 MA's), (Start: 5 @44665 has 1 MA's), (6, 44647), (8, 44626), (10, 44566),

Gene: PhineBark_64 Start: 42498, Stop: 42352, Start Num: 3

Candidate Starts for PhineBark_64:

(Start: 3 @42498 has 92 MA's), (Start: 5 @42483 has 1 MA's), (6, 42465), (8, 42444), (10, 42384),

Gene: Phlippers_60 Start: 42333, Stop: 42196, Start Num: 4

Candidate Starts for Phlippers_60:

(Start: 3 @42342 has 92 MA's), (Start: 4 @42333 has 2 MA's), (Start: 5 @42327 has 1 MA's), (6, 42309), (8, 42288), (10, 42228),

Gene: PhrostyMug_64 Start: 43583, Stop: 43437, Start Num: 3

Candidate Starts for PhrostyMug_64:

(1, 43676), (2, 43634), (Start: 3 @43583 has 92 MA's), (Start: 4 @43574 has 2 MA's), (Start: 5 @43568 has 1 MA's), (6, 43550), (8, 43529), (10, 43469),

Gene: PinkPlastic_64 Start: 42136, Stop: 41990, Start Num: 3

Candidate Starts for PinkPlastic_64:

(Start: 3 @42136 has 92 MA's), (Start: 5 @42121 has 1 MA's), (6, 42103), (8, 42082), (10, 42022),

Gene: Pinto_65 Start: 42089, Stop: 41943, Start Num: 3

Candidate Starts for Pinto_65:

(Start: 3 @42089 has 92 MA's), (Start: 5 @42074 has 1 MA's), (6, 42056), (8, 42035), (10, 41975),

Gene: Pippin_64 Start: 41515, Stop: 41369, Start Num: 3

Candidate Starts for Pippin_64:

(Start: 3 @41515 has 92 MA's), (Start: 5 @41500 has 1 MA's), (6, 41482), (8, 41461), (9, 41452), (10, 41401),

Gene: Puppet_62 Start: 43520, Stop: 43374, Start Num: 3

Candidate Starts for Puppet_62:

(Start: 3 @43520 has 92 MA's), (Start: 5 @43505 has 1 MA's), (8, 43466), (10, 43406),

Gene: Rohr_66 Start: 43554, Stop: 43408, Start Num: 3

Candidate Starts for Rohr_66:

(Start: 3 @43554 has 92 MA's), (Start: 5 @43539 has 1 MA's), (6, 43521), (8, 43500), (10, 43440),

Gene: Rutherferd_66 Start: 43635, Stop: 43489, Start Num: 3

Candidate Starts for Rutherferd_66:

(Start: 3 @43635 has 92 MA's), (Start: 4 @43626 has 2 MA's), (Start: 5 @43620 has 1 MA's), (6, 43602), (8, 43581), (10, 43521),

Gene: Sagefire_66 Start: 43769, Stop: 43623, Start Num: 3

Candidate Starts for Sagefire_66:

(Start: 3 @43769 has 92 MA's), (Start: 5 @43754 has 1 MA's), (6, 43736), (8, 43715), (10, 43655),

Gene: Sandaddy_62 Start: 42037, Stop: 41891, Start Num: 3

Candidate Starts for Sandaddy_62:

(Start: 3 @42037 has 92 MA's), (Start: 5 @42022 has 1 MA's), (6, 42004), (8, 41983), (10, 41923),

Gene: Seanderson_67 Start: 44663, Stop: 44517, Start Num: 3

Candidate Starts for Seanderson_67:

(Start: 3 @44663 has 92 MA's), (Start: 4 @44654 has 2 MA's), (Start: 5 @44648 has 1 MA's), (6, 44630), (8, 44609), (10, 44549),

Gene: ShortQueendom_56 Start: 39733, Stop: 39602, Start Num: 5

Candidate Starts for ShortQueendom_56:

(Start: 3 @39748 has 92 MA's), (Start: 5 @39733 has 1 MA's), (6, 39715), (8, 39694), (9, 39685), (10, 39634),

Gene: Smairt_66 Start: 44577, Stop: 44431, Start Num: 3

Candidate Starts for Smairt_66:

(1, 44670), (2, 44628), (Start: 3 @44577 has 92 MA's), (Start: 4 @44568 has 2 MA's), (Start: 5 @44562 has 1 MA's), (6, 44544), (8, 44523), (10, 44463),

Gene: Smeagol_67 Start: 44063, Stop: 43917, Start Num: 3

Candidate Starts for Smeagol_67:

(Start: 3 @44063 has 92 MA's), (Start: 5 @44048 has 1 MA's), (6, 44030), (8, 44009), (10, 43949),

Gene: Snazzy_62 Start: 41204, Stop: 41058, Start Num: 3

Candidate Starts for Snazzy_62:

(Start: 3 @41204 has 92 MA's), (Start: 5 @41189 has 1 MA's), (6, 41171), (8, 41150), (9, 41141), (10, 41090),

Gene: Solon_63 Start: 41771, Stop: 41634, Start Num: 4

Candidate Starts for Solon_63:

(Start: 3 @41780 has 92 MA's), (Start: 4 @41771 has 2 MA's), (Start: 5 @41765 has 1 MA's), (8, 41726), (9, 41717), (10, 41666),

Gene: Sorpresa_63 Start: 42039, Stop: 41893, Start Num: 3

Candidate Starts for Sorpresa_63:

(Start: 3 @42039 has 92 MA's), (Start: 5 @42024 has 1 MA's), (6, 42006), (8, 41985), (10, 41925),

Gene: SpikeBT_63 Start: 42403, Stop: 42257, Start Num: 3

Candidate Starts for SpikeBT_63:

(Start: 3 @42403 has 92 MA's), (Start: 5 @42388 has 1 MA's), (6, 42370), (7, 42352), (8, 42349), (10, 42289),

Gene: StewieG_59 Start: 38578, Stop: 38441, Start Num: 4

Candidate Starts for StewieG_59:

(Start: 3 @38587 has 92 MA's), (Start: 4 @38578 has 2 MA's), (Start: 5 @38572 has 1 MA's), (6, 38554), (8, 38533), (10, 38473),

Gene: Sunshine924_69 Start: 42853, Stop: 42707, Start Num: 3

Candidate Starts for Sunshine924_69:

(1, 42946), (Start: 3 @42853 has 92 MA's), (Start: 4 @42844 has 2 MA's), (Start: 5 @42838 has 1 MA's), (6, 42820), (8, 42799), (10, 42739),

Gene: SwissCheese_68 Start: 42622, Stop: 42476, Start Num: 3

Candidate Starts for SwissCheese_68:

(Start: 3 @42622 has 92 MA's), (Start: 5 @42607 has 1 MA's), (8, 42568), (10, 42508),

Gene: Tasp14_68 Start: 44157, Stop: 44011, Start Num: 3

Candidate Starts for Tasp14_68:

(Start: 3 @44157 has 92 MA's), (Start: 5 @44142 has 1 MA's), (6, 44124), (8, 44103), (10, 44043),

Gene: Topgun_62 Start: 41267, Stop: 41121, Start Num: 3

Candidate Starts for Topgun_62:

(Start: 3 @41267 has 92 MA's), (Start: 4 @41258 has 2 MA's), (Start: 5 @41252 has 1 MA's), (6, 41234), (8, 41213), (10, 41153),

Gene: Treddle_65 Start: 43506, Stop: 43360, Start Num: 3

Candidate Starts for Treddle_65:

(Start: 3 @43506 has 92 MA's), (Start: 5 @43491 has 1 MA's), (6, 43473), (8, 43452), (10, 43392),

Gene: Tripl3t_69 Start: 44980, Stop: 44843, Start Num: 4

Candidate Starts for Tripl3t_69:

(Start: 3 @44989 has 92 MA's), (Start: 4 @44980 has 2 MA's), (Start: 5 @44974 has 1 MA's), (6, 44956), (7, 44938), (8, 44935), (10, 44875),

Gene: Trouble_65 Start: 42607, Stop: 42461, Start Num: 3

Candidate Starts for Trouble_65:

(Start: 3 @42607 has 92 MA's), (Start: 4 @42598 has 2 MA's), (Start: 5 @42592 has 1 MA's), (8, 42553), (10, 42493),

Gene: Violet_62 Start: 43864, Stop: 43718, Start Num: 3

Candidate Starts for Violet_62:

(Start: 3 @43864 has 92 MA's), (Start: 5 @43849 has 1 MA's), (6, 43831), (7, 43813), (8, 43810), (10, 43750),

Gene: Watermelon_64 Start: 41600, Stop: 41454, Start Num: 3

Candidate Starts for Watermelon_64:

(Start: 3 @41600 has 92 MA's), (Start: 5 @41585 has 1 MA's), (6, 41567), (8, 41546), (10, 41486),

Gene: Wheeler_67 Start: 42867, Stop: 42721, Start Num: 3

Candidate Starts for Wheeler_67:

(Start: 3 @42867 has 92 MA's), (Start: 5 @42852 has 1 MA's), (8, 42813), (10, 42753),

Gene: Whitspit_60 Start: 39945, Stop: 39799, Start Num: 3

Candidate Starts for Whitspit_60:

(Start: 3 @39945 has 92 MA's), (Start: 4 @39936 has 2 MA's), (Start: 5 @39930 has 1 MA's), (8, 39891), (10, 39831),

Gene: Wilkins_63 Start: 41197, Stop: 41051, Start Num: 3

Candidate Starts for Wilkins_63:

(Start: 3 @41197 has 92 MA's), (Start: 4 @41188 has 2 MA's), (Start: 5 @41182 has 1 MA's), (6, 41164), (8, 41143), (10, 41083),

Gene: Zeuska_70 Start: 45101, Stop: 44955, Start Num: 3

Candidate Starts for Zeuska_70:

(Start: 3 @45101 has 92 MA's), (Start: 5 @45086 has 1 MA's), (6, 45068), (8, 45047), (10, 44987),