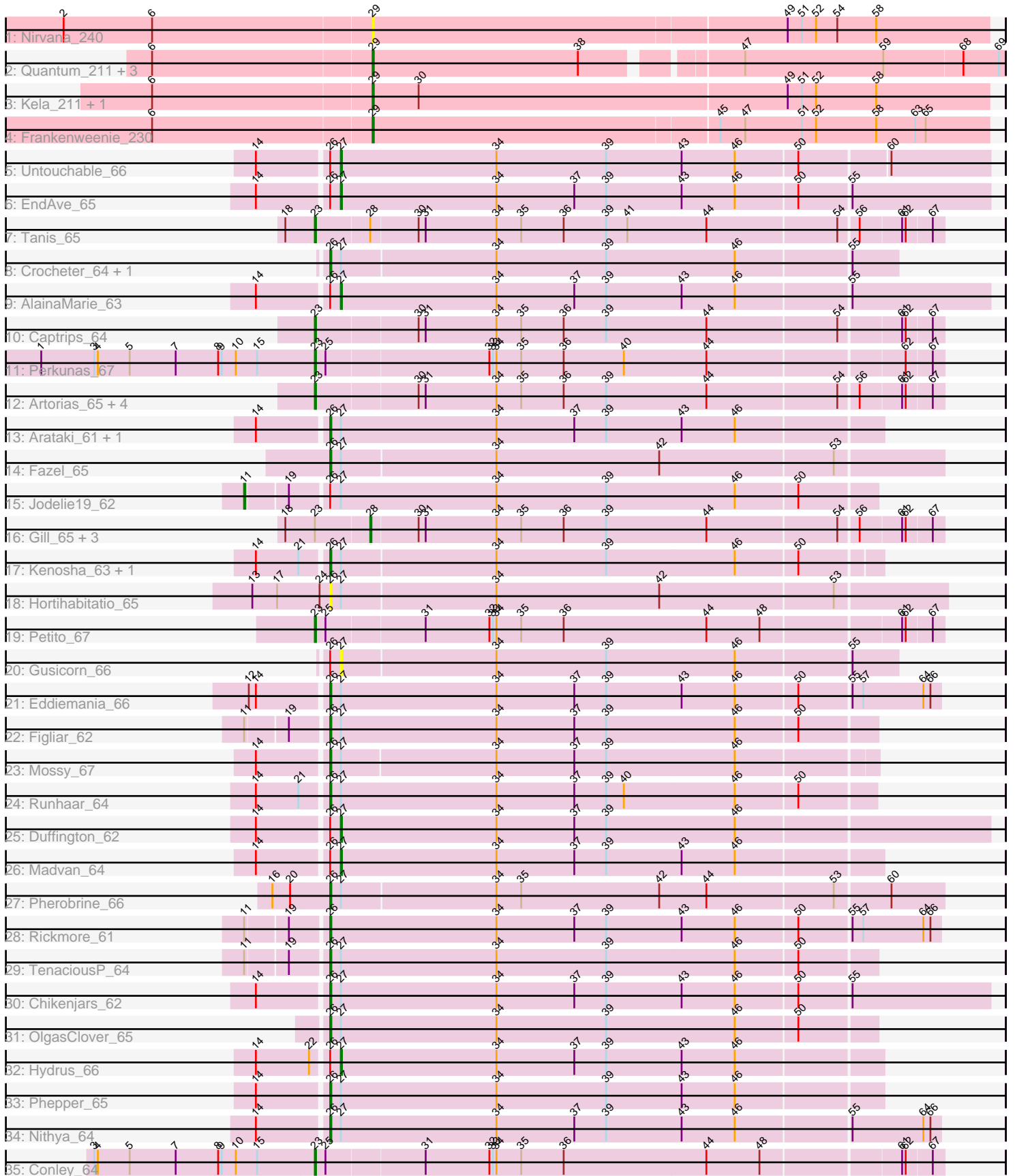


Pham 194092



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 194092 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194092 has 49 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Nirvana_240
- Track 2 : Quantum_211, Satis_212, Kradal_214, EhyElimayoE_215
- Track 3 : Kela_211, JustBecause_213
- Track 4 : Frankenweenie_230
- Track 5 : Untouchable_66
- Track 6 : EndAve_65
- Track 7 : Tanis_65
- Track 8 : Crocheter_64, ShaggyRogers_67
- Track 9 : AlainaMarie_63
- Track 10 : Captrips_64
- Track 11 : Perkunas_67
- Track 12 : Artorias_65, Gravy_64, Capybara_65, FortCran_65, Kerry_64
- Track 13 : Arataki_61, Zeph_66
- Track 14 : Fazel_65
- Track 15 : Jodelie19_62
- Track 16 : Gill_65, Odesza_64, Magel_66, Roney_65
- Track 17 : Kenosha_63, Nadmeg_65
- Track 18 : Hortihabitatio_65
- Track 19 : Petite_67
- Track 20 : Gusicorn_66
- Track 21 : Eddiemania_66
- Track 22 : Figliar_62
- Track 23 : Mossy_67
- Track 24 : Runhaar_64
- Track 25 : Duffington_62
- Track 26 : Madvan_64
- Track 27 : Pherobrine_66
- Track 28 : Rickmore_61
- Track 29 : TenaciousP_64
- Track 30 : Chikenjars_62
- Track 31 : OlgasClover_65
- Track 32 : Hydrus_66
- Track 33 : Phepper_65
- Track 34 : Nithya_64
- Track 35 : Conley_64

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

The start number called the most often in the published annotations is 26, it was called in 16 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arataki_61, Chikenjars_62, Crocheter_64, Eddiemania_66, Fazel_65, Figliar_62, Hortihabitatio_65, Kenosha_63, Mossy_67, Nadmeg_65, Nithya_64, OlgasClover_65, Phepper_65, Pherobrine_66, Rickmore_61, Runhaar_64, ShaggyRogers_67, TenaciousP_64, Zeph_66,

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

- AlainaMarie_63, Duffington_62, EndAve_65, Gusicorn_66, Hydrus_66, Jodelie19_62, Madvan_64, Untouchable_66,

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

- Artorias_65, Captrips_64, Copybara_65, Conley_64, EhyElimayoE_215, FortCran_65, Frankenweenie_230, Gill_65, Gravy_64, JustBecause_213, Kela_211, Kerry_64, Kradal_214, Magel_66, Nirvana_240, Odesza_64, Perkunas_67, Petite_67, Quantum_211, Roney_65, Satis_212, Tanis_65,

Summary by start number:

Start 11:

- Found in 4 of 49 (8.2%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Jodelie19_62 (DJ),

Start 23:

- Found in 14 of 49 (28.6%) of genes in pham
- Manual Annotations of this start: 10 of 44
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Artorias_65 (DJ), Captrips_64 (DJ), Copybara_65 (DJ), Conley_64 (DJ), FortCran_65 (DJ), Gravy_64 (DJ), Kerry_64 (DJ), Perkunas_67 (DJ), Petite_67 (DJ), Tanis_65 (DJ),

Start 26:

- Found in 27 of 49 (55.1%) of genes in pham
- Manual Annotations of this start: 16 of 44
- Called 70.4% of time when present
- Phage (with cluster) where this start called: Arataki_61 (DJ), Chikenjars_62 (DJ), Crocheter_64 (DJ), Eddiemania_66 (DJ), Fazel_65 (DJ), Figliar_62 (DJ), Hortihabitatio_65 (DJ), Kenosha_63 (DJ), Mossy_67 (DJ), Nadmeg_65 (DJ), Nithya_64 (DJ), OlgasClover_65 (DJ), Phepper_65 (DJ), Pherobrine_66 (DJ), Rickmore_61 (DJ), Runhaar_64 (DJ), ShaggyRogers_67 (DJ), TenaciousP_64 (DJ), Zeph_66 (DJ),

Start 27:

- Found in 26 of 49 (53.1%) of genes in pham
- Manual Annotations of this start: 6 of 44
- Called 26.9% of time when present

- Phage (with cluster) where this start called: AlainaMarie_63 (DJ), Duffington_62 (DJ), EndAve_65 (DJ), Gusicorn_66 (DJ), Hydrus_66 (DJ), Madvan_64 (DJ), Untouchable_66 (DJ),

Start 28:

- Found in 5 of 49 (10.2%) of genes in pham
- Manual Annotations of this start: 4 of 44
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Gill_65 (DJ), Magel_66 (DJ), Odesza_64 (DJ), Roney_65 (DJ),

Start 29:

- Found in 8 of 49 (16.3%) of genes in pham
- Manual Annotations of this start: 7 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE_215 (BM), Frankenweenie_230 (BM), JustBecause_213 (BM), Kela_211 (BM), Kradal_214 (BM), Nirvana_240 (BM), Quantum_211 (BM), Satis_212 (BM),

Summary by clusters:

There are 2 clusters represented in this pham: BM, DJ,

Info for manual annotations of cluster BM:

- Start number 29 was manually annotated 7 times for cluster BM.

Info for manual annotations of cluster DJ:

- Start number 11 was manually annotated 1 time for cluster DJ.
- Start number 23 was manually annotated 10 times for cluster DJ.
- Start number 26 was manually annotated 16 times for cluster DJ.
- Start number 27 was manually annotated 6 times for cluster DJ.
- Start number 28 was manually annotated 4 times for cluster DJ.

Gene Information:

Gene: AlainaMarie_63 Start: 46290, Stop: 46832, Start Num: 27

Candidate Starts for AlainaMarie_63:

(14, 46224), (Start: 26 @46281 has 16 MA's), (Start: 27 @46290 has 6 MA's), (34, 46422), (37, 46488), (39, 46515), (43, 46578), (46, 46623), (55, 46716),

Gene: Arataki_61 Start: 45961, Stop: 46422, Start Num: 26

Candidate Starts for Arataki_61:

(14, 45904), (Start: 26 @45961 has 16 MA's), (Start: 27 @45970 has 6 MA's), (34, 46102), (37, 46168), (39, 46195), (43, 46258), (46, 46303),

Gene: Artorias_65 Start: 46494, Stop: 47009, Start Num: 23

Candidate Starts for Artorias_65:

(Start: 23 @46494 has 10 MA's), (30, 46578), (31, 46584), (34, 46644), (35, 46665), (36, 46701), (39, 46737), (44, 46821), (54, 46929), (56, 46944), (61, 46977), (62, 46980), (67, 47001),

Gene: Captrips_64 Start: 45969, Stop: 46484, Start Num: 23

Candidate Starts for Captrips_64:

(Start: 23 @45969 has 10 MA's), (30, 46053), (31, 46059), (34, 46119), (35, 46140), (36, 46176), (39, 46212), (44, 46296), (54, 46404), (61, 46452), (62, 46455), (67, 46476),

Gene: Capybara_65 Start: 46300, Stop: 46815, Start Num: 23

Candidate Starts for Capybara_65:

(Start: 23 @46300 has 10 MA's), (30, 46384), (31, 46390), (34, 46450), (35, 46471), (36, 46507), (39, 46543), (44, 46627), (54, 46735), (56, 46750), (61, 46783), (62, 46786), (67, 46807),

Gene: Chikenjars_62 Start: 46297, Stop: 46848, Start Num: 26

Candidate Starts for Chikenjars_62:

(14, 46240), (Start: 26 @46297 has 16 MA's), (Start: 27 @46306 has 6 MA's), (34, 46438), (37, 46504), (39, 46531), (43, 46594), (46, 46639), (50, 46690), (55, 46732),

Gene: Conley_64 Start: 47055, Stop: 47570, Start Num: 23

Candidate Starts for Conley_64:

(3, 46869), (4, 46872), (5, 46899), (7, 46938), (8, 46974), (9, 46977), (10, 46989), (15, 47007), (Start: 23 @47055 has 10 MA's), (25, 47064), (31, 47145), (32, 47199), (33, 47202), (34, 47205), (35, 47226), (36, 47262), (44, 47382), (48, 47427), (61, 47538), (62, 47541), (67, 47562),

Gene: Crocheter_64 Start: 46484, Stop: 46954, Start Num: 26

Candidate Starts for Crocheter_64:

(Start: 26 @46484 has 16 MA's), (Start: 27 @46493 has 6 MA's), (34, 46622), (39, 46715), (46, 46823), (55, 46916),

Gene: Duffington_62 Start: 46002, Stop: 46544, Start Num: 27

Candidate Starts for Duffington_62:

(14, 45936), (Start: 26 @45993 has 16 MA's), (Start: 27 @46002 has 6 MA's), (34, 46134), (37, 46200), (39, 46227), (46, 46335),

Gene: Eddiemania_66 Start: 47192, Stop: 47701, Start Num: 26

Candidate Starts for Eddiemania_66:

(12, 47129), (14, 47135), (Start: 26 @47192 has 16 MA's), (Start: 27 @47201 has 6 MA's), (34, 47333), (37, 47399), (39, 47426), (43, 47489), (46, 47534), (50, 47585), (55, 47627), (57, 47636), (64, 47687), (66, 47693),

Gene: EhyElimayoE_215 Start: 129333, Stop: 129842, Start Num: 29

Candidate Starts for EhyElimayoE_215:

(6, 129150), (Start: 29 @129333 has 7 MA's), (38, 129507), (47, 129624), (59, 129741), (68, 129807), (69, 129837),

Gene: EndAve_65 Start: 46474, Stop: 47016, Start Num: 27

Candidate Starts for EndAve_65:

(14, 46408), (Start: 26 @46465 has 16 MA's), (Start: 27 @46474 has 6 MA's), (34, 46606), (37, 46672), (39, 46699), (43, 46762), (46, 46807), (50, 46858), (55, 46900),

Gene: Fazel_65 Start: 46305, Stop: 46814, Start Num: 26

Candidate Starts for Fazel_65:

(Start: 26 @46305 has 16 MA's), (Start: 27 @46314 has 6 MA's), (34, 46443), (42, 46581), (53, 46725),

Gene: Figliar_62 Start: 46394, Stop: 46849, Start Num: 26

Candidate Starts for Figliar_62:

(Start: 11 @46331 has 1 MA's), (19, 46364), (Start: 26 @46394 has 16 MA's), (Start: 27 @46403 has 6 MA's), (34, 46535), (37, 46601), (39, 46628), (46, 46736), (50, 46787),

Gene: FortCran_65 Start: 46494, Stop: 47009, Start Num: 23

Candidate Starts for FortCran_65:

(Start: 23 @46494 has 10 MA's), (30, 46578), (31, 46584), (34, 46644), (35, 46665), (36, 46701), (39, 46737), (44, 46821), (54, 46929), (56, 46944), (61, 46977), (62, 46980), (67, 47001),

Gene: Frankenweenie_230 Start: 138966, Stop: 139478, Start Num: 29

Candidate Starts for Frankenweenie_230:

(6, 138783), (Start: 29 @138966 has 7 MA's), (45, 139251), (47, 139272), (51, 139320), (52, 139332), (58, 139383), (63, 139416), (65, 139425),

Gene: Gill_65 Start: 46357, Stop: 46827, Start Num: 28

Candidate Starts for Gill_65:

(18, 46288), (Start: 23 @46312 has 10 MA's), (Start: 28 @46357 has 4 MA's), (30, 46396), (31, 46402), (34, 46462), (35, 46483), (36, 46519), (39, 46555), (44, 46639), (54, 46747), (56, 46762), (61, 46795), (62, 46798), (67, 46819),

Gene: Gravy_64 Start: 45990, Stop: 46505, Start Num: 23

Candidate Starts for Gravy_64:

(Start: 23 @45990 has 10 MA's), (30, 46074), (31, 46080), (34, 46140), (35, 46161), (36, 46197), (39, 46233), (44, 46317), (54, 46425), (56, 46440), (61, 46473), (62, 46476), (67, 46497),

Gene: Gusicorn_66 Start: 46400, Stop: 46861, Start Num: 27

Candidate Starts for Gusicorn_66:

(Start: 26 @46391 has 16 MA's), (Start: 27 @46400 has 6 MA's), (34, 46529), (39, 46622), (46, 46730), (55, 46823),

Gene: Hortihabitatio_65 Start: 47098, Stop: 47610, Start Num: 26

Candidate Starts for Hortihabitatio_65:

(13, 47032), (17, 47053), (24, 47089), (Start: 26 @47098 has 16 MA's), (Start: 27 @47107 has 6 MA's), (34, 47236), (42, 47374), (53, 47518),

Gene: Hydrus_66 Start: 47228, Stop: 47680, Start Num: 27

Candidate Starts for Hydrus_66:

(14, 47162), (22, 47207), (Start: 26 @47219 has 16 MA's), (Start: 27 @47228 has 6 MA's), (34, 47360), (37, 47426), (39, 47453), (43, 47516), (46, 47561),

Gene: Jodelie19_62 Start: 47735, Stop: 48253, Start Num: 11

Candidate Starts for Jodelie19_62:

(Start: 11 @47735 has 1 MA's), (19, 47768), (Start: 26 @47798 has 16 MA's), (Start: 27 @47807 has 6 MA's), (34, 47939), (39, 48032), (46, 48140), (50, 48191),

Gene: JustBecause_213 Start: 126485, Stop: 127003, Start Num: 29

Candidate Starts for JustBecause_213:

(6, 126302), (Start: 29 @126485 has 7 MA's), (30, 126524), (49, 126833), (51, 126845), (52, 126857), (58, 126908),

Gene: Kela_211 Start: 126330, Stop: 126848, Start Num: 29

Candidate Starts for Kela_211:

(6, 126147), (Start: 29 @126330 has 7 MA's), (30, 126369), (49, 126678), (51, 126690), (52, 126702), (58, 126753),

Gene: Kenosha_63 Start: 46678, Stop: 47133, Start Num: 26

Candidate Starts for Kenosha_63:

(14, 46621), (21, 46657), (Start: 26 @46678 has 16 MA's), (Start: 27 @46687 has 6 MA's), (34, 46816), (39, 46909), (46, 47017), (50, 47068),

Gene: Kerry_64 Start: 45990, Stop: 46505, Start Num: 23

Candidate Starts for Kerry_64:

(Start: 23 @45990 has 10 MA's), (30, 46074), (31, 46080), (34, 46140), (35, 46161), (36, 46197), (39, 46233), (44, 46317), (54, 46425), (56, 46440), (61, 46473), (62, 46476), (67, 46497),

Gene: Kradal_214 Start: 129330, Stop: 129839, Start Num: 29

Candidate Starts for Kradal_214:

(6, 129147), (Start: 29 @129330 has 7 MA's), (38, 129504), (47, 129621), (59, 129738), (68, 129804), (69, 129834),

Gene: Madvan_64 Start: 46114, Stop: 46566, Start Num: 27

Candidate Starts for Madvan_64:

(14, 46048), (Start: 26 @46105 has 16 MA's), (Start: 27 @46114 has 6 MA's), (34, 46246), (37, 46312), (39, 46339), (43, 46402), (46, 46447),

Gene: Magel_66 Start: 46272, Stop: 46742, Start Num: 28

Candidate Starts for Magel_66:

(18, 46203), (Start: 23 @46227 has 10 MA's), (Start: 28 @46272 has 4 MA's), (30, 46311), (31, 46317), (34, 46377), (35, 46398), (36, 46434), (39, 46470), (44, 46554), (54, 46662), (56, 46677), (61, 46710), (62, 46713), (67, 46734),

Gene: Mossy_67 Start: 48112, Stop: 48564, Start Num: 26

Candidate Starts for Mossy_67:

(14, 48055), (Start: 26 @48112 has 16 MA's), (Start: 27 @48121 has 6 MA's), (34, 48250), (37, 48316), (39, 48343), (46, 48451),

Gene: Nadmeg_65 Start: 47342, Stop: 47797, Start Num: 26

Candidate Starts for Nadmeg_65:

(14, 47285), (21, 47321), (Start: 26 @47342 has 16 MA's), (Start: 27 @47351 has 6 MA's), (34, 47480), (39, 47573), (46, 47681), (50, 47732),

Gene: Nirvana_240 Start: 137189, Stop: 137701, Start Num: 29

Candidate Starts for Nirvana_240:

(2, 136931), (6, 137006), (Start: 29 @137189 has 7 MA's), (49, 137531), (51, 137543), (52, 137555), (54, 137573), (58, 137606),

Gene: Nithya_64 Start: 46208, Stop: 46717, Start Num: 26

Candidate Starts for Nithya_64:

(14, 46151), (Start: 26 @46208 has 16 MA's), (Start: 27 @46217 has 6 MA's), (34, 46349), (37, 46415), (39, 46442), (43, 46505), (46, 46550), (55, 46643), (64, 46703), (66, 46709),

Gene: Odesza_64 Start: 46216, Stop: 46686, Start Num: 28

Candidate Starts for Odesza_64:

(18, 46147), (Start: 23 @46171 has 10 MA's), (Start: 28 @46216 has 4 MA's), (30, 46255), (31, 46261), (34, 46321), (35, 46342), (36, 46378), (39, 46414), (44, 46498), (54, 46606), (56, 46621), (61, 46654), (62, 46657), (67, 46678),

Gene: OlgasClover_65 Start: 47388, Stop: 47843, Start Num: 26

Candidate Starts for OlgasClover_65:

(Start: 26 @47388 has 16 MA's), (Start: 27 @47397 has 6 MA's), (34, 47529), (39, 47622), (46, 47730), (50, 47781),

Gene: Perkunas_67 Start: 46556, Stop: 47071, Start Num: 23

Candidate Starts for Perkunas_67:

(1, 46325), (3, 46370), (4, 46373), (5, 46400), (7, 46439), (8, 46475), (9, 46478), (10, 46490), (15, 46508), (Start: 23 @46556 has 10 MA's), (25, 46565), (32, 46700), (33, 46703), (34, 46706), (35, 46727), (36, 46763), (40, 46814), (44, 46883), (62, 47042), (67, 47063),

Gene: Petito_67 Start: 47726, Stop: 48241, Start Num: 23

Candidate Starts for Petito_67:

(Start: 23 @47726 has 10 MA's), (25, 47735), (31, 47816), (32, 47870), (33, 47873), (34, 47876), (35, 47897), (36, 47933), (44, 48053), (48, 48098), (61, 48209), (62, 48212), (67, 48233),

Gene: Phepper_65 Start: 46347, Stop: 46808, Start Num: 26

Candidate Starts for Phepper_65:

(14, 46290), (Start: 26 @46347 has 16 MA's), (Start: 27 @46356 has 6 MA's), (34, 46488), (39, 46581), (43, 46644), (46, 46689),

Gene: Pherobrine_66 Start: 47919, Stop: 48428, Start Num: 26

Candidate Starts for Pherobrine_66:

(16, 47871), (20, 47886), (Start: 26 @47919 has 16 MA's), (Start: 27 @47928 has 6 MA's), (34, 48057), (35, 48078), (42, 48195), (44, 48234), (53, 48339), (60, 48384),

Gene: Quantum_211 Start: 129324, Stop: 129833, Start Num: 29

Candidate Starts for Quantum_211:

(6, 129141), (Start: 29 @129324 has 7 MA's), (38, 129498), (47, 129615), (59, 129732), (68, 129798), (69, 129828),

Gene: Rickmore_61 Start: 44723, Stop: 45232, Start Num: 26

Candidate Starts for Rickmore_61:

(Start: 11 @44660 has 1 MA's), (19, 44693), (Start: 26 @44723 has 16 MA's), (34, 44864), (37, 44930), (39, 44957), (43, 45020), (46, 45065), (50, 45116), (55, 45158), (57, 45167), (64, 45218), (66, 45224),

Gene: Roney_65 Start: 46382, Stop: 46852, Start Num: 28

Candidate Starts for Roney_65:

(18, 46313), (Start: 23 @46337 has 10 MA's), (Start: 28 @46382 has 4 MA's), (30, 46421), (31, 46427), (34, 46487), (35, 46508), (36, 46544), (39, 46580), (44, 46664), (54, 46772), (56, 46787), (61, 46820), (62, 46823), (67, 46844),

Gene: Runhaar_64 Start: 46158, Stop: 46613, Start Num: 26

Candidate Starts for Runhaar_64:

(14, 46101), (21, 46137), (Start: 26 @46158 has 16 MA's), (Start: 27 @46167 has 6 MA's), (34, 46299), (37, 46365), (39, 46392), (40, 46407), (46, 46500), (50, 46551),

Gene: Satis_212 Start: 129667, Stop: 130176, Start Num: 29

Candidate Starts for Satis_212:

(6, 129484), (Start: 29 @129667 has 7 MA's), (38, 129841), (47, 129958), (59, 130075), (68, 130141), (69, 130171),

Gene: ShaggyRogers_67 Start: 46127, Stop: 46597, Start Num: 26

Candidate Starts for ShaggyRogers_67:

(Start: 26 @46127 has 16 MA's), (Start: 27 @46136 has 6 MA's), (34, 46265), (39, 46358), (46, 46466), (55, 46559),

Gene: Tanis_65 Start: 46157, Stop: 46672, Start Num: 23

Candidate Starts for Tanis_65:

(18, 46133), (Start: 23 @46157 has 10 MA's), (Start: 28 @46202 has 4 MA's), (30, 46241), (31, 46247), (34, 46307), (35, 46328), (36, 46364), (39, 46400), (41, 46418), (44, 46484), (54, 46592), (56, 46607), (61, 46640), (62, 46643), (67, 46664),

Gene: TenaciousP_64 Start: 47760, Stop: 48215, Start Num: 26

Candidate Starts for TenaciousP_64:

(Start: 11 @47697 has 1 MA's), (19, 47730), (Start: 26 @47760 has 16 MA's), (Start: 27 @47769 has 6 MA's), (34, 47901), (39, 47994), (46, 48102), (50, 48153),

Gene: Untouchable_66 Start: 47269, Stop: 47808, Start Num: 27

Candidate Starts for Untouchable_66:

(14, 47203), (Start: 26 @47260 has 16 MA's), (Start: 27 @47269 has 6 MA's), (34, 47401), (39, 47494), (43, 47557), (46, 47602), (50, 47653), (60, 47725),

Gene: Zeph_66 Start: 47186, Stop: 47647, Start Num: 26

Candidate Starts for Zeph_66:

(14, 47129), (Start: 26 @47186 has 16 MA's), (Start: 27 @47195 has 6 MA's), (34, 47327), (37, 47393), (39, 47420), (43, 47483), (46, 47528),