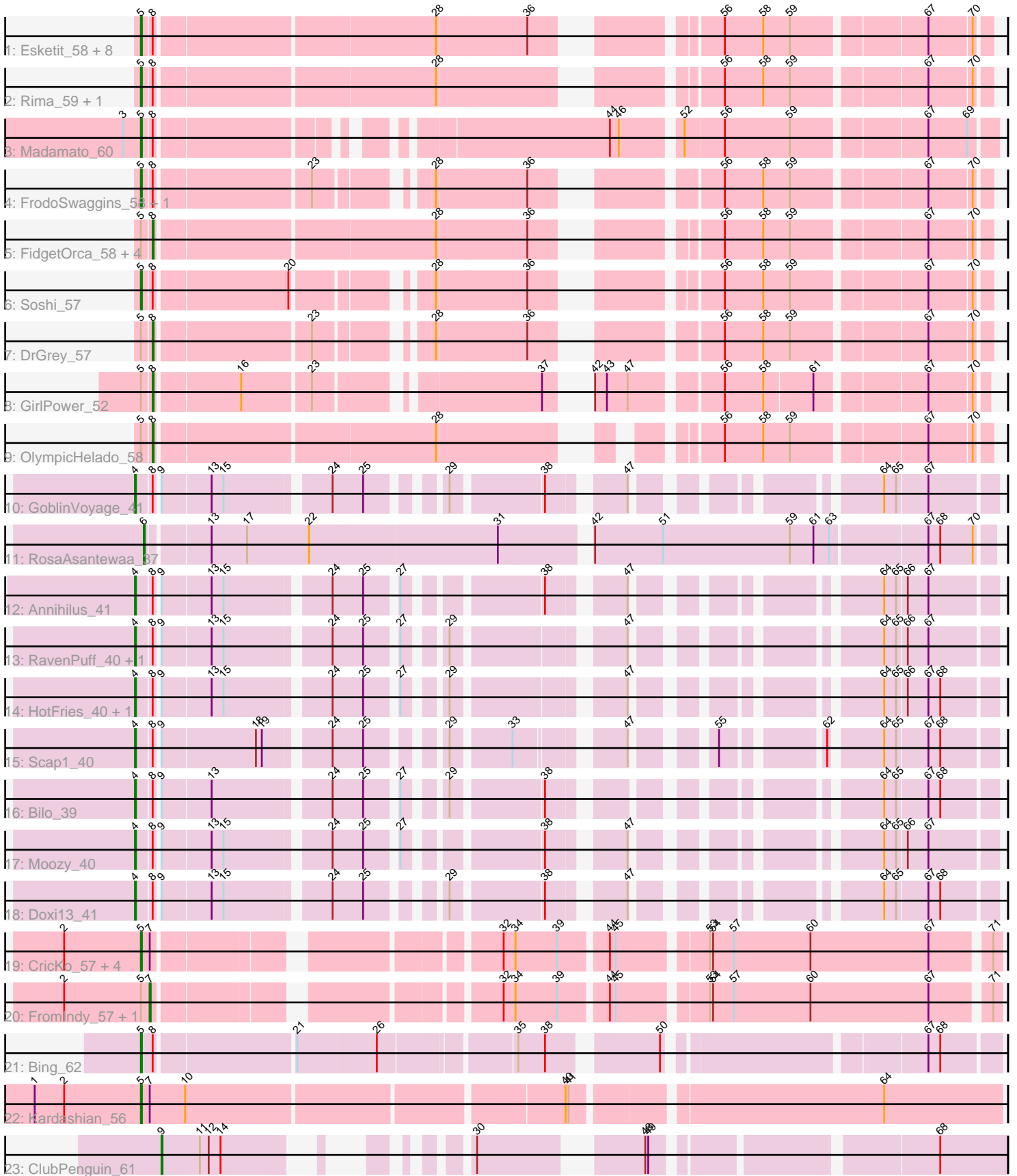


Pham 203062



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 203062 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203062 has 44 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Esketit_58, TaidaOne_58, Meibysrarus_56, TonyStarch_57, HazuAndZazu_57, Hoshi_57, Maya_58, TieDye_57, IceWarrior_57
- Track 2 : Rima_59, Namu_59
- Track 3 : Madamato_60
- Track 4 : FrodoSwaggins_58, Popy_58
- Track 5 : FidgetOrca_58, Jaylociraptor_58, Indigenous_58, Spectropatronm_58, CherryBlossom_58
- Track 6 : Soshi_57
- Track 7 : DrGrey_57
- Track 8 : GirlPower_52
- Track 9 : OlympicHelado_58
- Track 10 : GoblinVoyage_41
- Track 11 : RosaAsantewaa_37
- Track 12 : Annihilus_41
- Track 13 : RavenPuff_40, PherryCruz_40
- Track 14 : HotFries_40, SheRa_41
- Track 15 : Scap1_40
- Track 16 : Bilo_39
- Track 17 : Moozy_40
- Track 18 : Doxi13_41
- Track 19 : CricKo_57, Thiqqums_57, SendItCS_53, Regigigas_58, Miek_54
- Track 20 : FromIndy_57, Rainydai_55
- Track 21 : Bing_62
- Track 22 : Kardashian_56
- Track 23 : ClubPenguin_61

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

The start number called the most often in the published annotations is 5, it was called in 20 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bing_62, CricKo_57, Esketit_58, FrodoSwaggins_58, HazuAndZazu_57, Hoshi_57, IceWarrior_57, Kardashian_56, Madamato_60, Maya_58, Meibysrarus_56, Miek_54,

Namo_59, Popy_58, Regigigas_58, Rima_59, SendItCS_53, Soshi_57, TaidaOne_58, Thiqqums_57, TieDye_57, TonyStarch_57,

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

- CherryBlossom_58, DrGrey_57, FidgetOrca_58, FromIndy_57, GirlPower_52, Indigenous_58, Jaylociraptor_58, OlympicHelado_58, Rainydai_55, Spectropatronm_58,

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

- Annihilus_41, Bilo_39, ClubPenguin_61, Doxi13_41, GoblinVoyage_41, HotFries_40, Moozy_40, PherryCruz_40, RavenPuff_40, RosaAsantewaa_37, Scap1_40, SheRa_41,

Summary by start number:

Start 4:

- Found in 10 of 44 (22.7%) of genes in pham
- Manual Annotations of this start: 10 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annihilus_41 (BI2), Bilo_39 (BI2), Doxi13_41 (BI2), GoblinVoyage_41 (BI2), HotFries_40 (BI2), Moozy_40 (BI2), PherryCruz_40 (BI2), RavenPuff_40 (BI2), Scap1_40 (BI2), SheRa_41 (BI2),

Start 5:

- Found in 32 of 44 (72.7%) of genes in pham
- Manual Annotations of this start: 20 of 41
- Called 68.8% of time when present
- Phage (with cluster) where this start called: Bing_62 (BI5), CricKo_57 (BI4), Esketit_58 (BI1), FrodoSwaggins_58 (BI1), HazuAndZazu_57 (BI1), Hoshi_57 (BI1), IceWarrior_57 (BI1), Kardashian_56 (BI6), Madamoto_60 (BI1), Maya_58 (BI1), Meibysrarus_56 (BI1), Miek_54 (BI4), NamO_59 (BI1), Popy_58 (BI1), Regigigas_58 (BI4), Rima_59 (BI1), SendItCS_53 (BI4), Soshi_57 (BI1), TaidaOne_58 (BI1), Thiqqums_57 (BI4), TieDye_57 (BI1), TonyStarch_57 (BI1),

Start 6:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RosaAsantewaa_37 (BI2),

Start 7:

- Found in 8 of 44 (18.2%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 25.0% of time when present
- Phage (with cluster) where this start called: FromIndy_57 (BI4), Rainydai_55 (BI4),

Start 8:

- Found in 34 of 44 (77.3%) of genes in pham
- Manual Annotations of this start: 8 of 41
- Called 23.5% of time when present
- Phage (with cluster) where this start called: CherryBlossom_58 (BI1), DrGrey_57 (BI1), FidgetOrca_58 (BI1), GirlPower_52 (BI1), Indigenous_58 (BI1), Jaylociraptor_58 (BI1), OlympicHelado_58 (BI1), Spectropatronm_58 (BI1),

Start 9:

- Found in 11 of 44 (25.0%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 9.1% of time when present
- Phage (with cluster) where this start called: ClubPenguin_61 (BI7),

Summary by clusters:

There are 6 clusters represented in this pham: BI6, BI7, BI4, BI5, BI2, BI1,

Info for manual annotations of cluster BI1:

- Start number 5 was manually annotated 14 times for cluster BI1.
- Start number 8 was manually annotated 8 times for cluster BI1.

Info for manual annotations of cluster BI2:

- Start number 4 was manually annotated 10 times for cluster BI2.
- Start number 6 was manually annotated 1 time for cluster BI2.

Info for manual annotations of cluster BI4:

- Start number 5 was manually annotated 4 times for cluster BI4.
- Start number 7 was manually annotated 1 time for cluster BI4.

Info for manual annotations of cluster BI5:

- Start number 5 was manually annotated 1 time for cluster BI5.

Info for manual annotations of cluster BI6:

- Start number 5 was manually annotated 1 time for cluster BI6.

Info for manual annotations of cluster BI7:

- Start number 9 was manually annotated 1 time for cluster BI7.

Gene Information:

Gene: Annihilus_41 Start: 29092, Stop: 29790, Start Num: 4

Candidate Starts for Annihilus_41:

(Start: 4 @29092 has 10 MA's), (Start: 8 @29107 has 8 MA's), (Start: 9 @29110 has 1 MA's), (13, 29158), (15, 29170), (24, 29266), (25, 29296), (27, 29323), (38, 29437), (47, 29500), (64, 29683), (65, 29695), (66, 29704), (67, 29725),

Gene: Bilo_39 Start: 29209, Stop: 29907, Start Num: 4

Candidate Starts for Bilo_39:

(Start: 4 @29209 has 10 MA's), (Start: 8 @29224 has 8 MA's), (Start: 9 @29227 has 1 MA's), (13, 29275), (24, 29383), (25, 29413), (27, 29440), (29, 29470), (38, 29554), (64, 29800), (65, 29812), (67, 29842), (68, 29854),

Gene: Bing_62 Start: 37589, Stop: 38362, Start Num: 5

Candidate Starts for Bing_62:

(Start: 5 @37589 has 20 MA's), (Start: 8 @37601 has 8 MA's), (21, 37733), (26, 37811), (35, 37937), (38, 37964), (50, 38060), (67, 38294), (68, 38306),

Gene: CherryBlossom_58 Start: 36769, Stop: 37482, Start Num: 8
Candidate Starts for CherryBlossom_58:
(Start: 5 @36760 has 20 MA's), (Start: 8 @36769 has 8 MA's), (28, 37006), (36, 37096), (56, 37237),
(58, 37276), (59, 37303), (67, 37426), (70, 37468),

Gene: ClubPenguin_61 Start: 37048, Stop: 37701, Start Num: 9
Candidate Starts for ClubPenguin_61:
(Start: 9 @37048 has 1 MA's), (11, 37087), (12, 37096), (14, 37108), (30, 37243), (48, 37378), (49,
37381), (68, 37633),

Gene: CricKo_57 Start: 35630, Stop: 36406, Start Num: 5
Candidate Starts for CricKo_57:
(2, 35552), (Start: 5 @35630 has 20 MA's), (Start: 7 @35639 has 1 MA's), (32, 35936), (34, 35948),
(39, 35990), (44, 36035), (45, 36041), (53, 36122), (54, 36125), (57, 36146), (60, 36224), (67, 36344),
(71, 36398),

Gene: Doxi13_41 Start: 29065, Stop: 29763, Start Num: 4
Candidate Starts for Doxi13_41:
(Start: 4 @29065 has 10 MA's), (Start: 8 @29080 has 8 MA's), (Start: 9 @29083 has 1 MA's), (13,
29131), (15, 29143), (24, 29239), (25, 29269), (29, 29326), (38, 29410), (47, 29473), (64, 29656), (65,
29668), (67, 29698), (68, 29710),

Gene: DrGrey_57 Start: 37134, Stop: 37850, Start Num: 8
Candidate Starts for DrGrey_57:
(Start: 5 @37125 has 20 MA's), (Start: 8 @37134 has 8 MA's), (23, 37281), (28, 37371), (36, 37461),
(56, 37605), (58, 37644), (59, 37671), (67, 37794), (70, 37836),

Gene: Esketit_58 Start: 36870, Stop: 37625, Start Num: 5
Candidate Starts for Esketit_58:
(Start: 5 @36870 has 20 MA's), (Start: 8 @36879 has 8 MA's), (28, 37149), (36, 37239), (56, 37380),
(58, 37419), (59, 37446), (67, 37569), (70, 37611),

Gene: FidgetOrca_58 Start: 36869, Stop: 37615, Start Num: 8
Candidate Starts for FidgetOrca_58:
(Start: 5 @36860 has 20 MA's), (Start: 8 @36869 has 8 MA's), (28, 37139), (36, 37229), (56, 37370),
(58, 37409), (59, 37436), (67, 37559), (70, 37601),

Gene: FrodoSwaggins_58 Start: 37519, Stop: 38244, Start Num: 5
Candidate Starts for FrodoSwaggins_58:
(Start: 5 @37519 has 20 MA's), (Start: 8 @37528 has 8 MA's), (23, 37675), (28, 37765), (36, 37855),
(56, 37999), (58, 38038), (59, 38065), (67, 38188), (70, 38230),

Gene: FromIndy_57 Start: 35245, Stop: 36012, Start Num: 7
Candidate Starts for FromIndy_57:
(2, 35158), (Start: 5 @35236 has 20 MA's), (Start: 7 @35245 has 1 MA's), (32, 35542), (34, 35554),
(39, 35596), (44, 35641), (45, 35647), (53, 35728), (54, 35731), (57, 35752), (60, 35830), (67, 35950),
(71, 36004),

Gene: GirlPower_52 Start: 37115, Stop: 37828, Start Num: 8
Candidate Starts for GirlPower_52:
(Start: 5 @37106 has 20 MA's), (Start: 8 @37115 has 8 MA's), (16, 37196), (23, 37262), (37, 37460),
(42, 37475), (43, 37487), (47, 37508), (56, 37589), (58, 37628), (61, 37676), (67, 37775), (70, 37817),

Gene: GoblinVoyage_41 Start: 29065, Stop: 29763, Start Num: 4

Candidate Starts for GoblinVoyage_41:

(Start: 4 @29065 has 10 MA's), (Start: 8 @29080 has 8 MA's), (Start: 9 @29083 has 1 MA's), (13, 29131), (15, 29143), (24, 29239), (25, 29269), (29, 29326), (38, 29410), (47, 29473), (64, 29656), (65, 29668), (67, 29698),

Gene: HazuAndZazu_57 Start: 37120, Stop: 37878, Start Num: 5

Candidate Starts for HazuAndZazu_57:

(Start: 5 @37120 has 20 MA's), (Start: 8 @37129 has 8 MA's), (28, 37399), (36, 37489), (56, 37633), (58, 37672), (59, 37699), (67, 37822), (70, 37864),

Gene: Hoshi_57 Start: 36467, Stop: 37222, Start Num: 5

Candidate Starts for Hoshi_57:

(Start: 5 @36467 has 20 MA's), (Start: 8 @36476 has 8 MA's), (28, 36746), (36, 36836), (56, 36977), (58, 37016), (59, 37043), (67, 37166), (70, 37208),

Gene: HotFries_40 Start: 29110, Stop: 29808, Start Num: 4

Candidate Starts for HotFries_40:

(Start: 4 @29110 has 10 MA's), (Start: 8 @29125 has 8 MA's), (Start: 9 @29128 has 1 MA's), (13, 29176), (15, 29188), (24, 29284), (25, 29314), (27, 29341), (29, 29371), (47, 29518), (64, 29701), (65, 29713), (66, 29722), (67, 29743), (68, 29755),

Gene: IceWarrior_57 Start: 36546, Stop: 37301, Start Num: 5

Candidate Starts for IceWarrior_57:

(Start: 5 @36546 has 20 MA's), (Start: 8 @36555 has 8 MA's), (28, 36825), (36, 36915), (56, 37056), (58, 37095), (59, 37122), (67, 37245), (70, 37287),

Gene: Indigenous_58 Start: 36873, Stop: 37619, Start Num: 8

Candidate Starts for Indigenous_58:

(Start: 5 @36864 has 20 MA's), (Start: 8 @36873 has 8 MA's), (28, 37143), (36, 37233), (56, 37374), (58, 37413), (59, 37440), (67, 37563), (70, 37605),

Gene: Jaylociraptor_58 Start: 36872, Stop: 37618, Start Num: 8

Candidate Starts for Jaylociraptor_58:

(Start: 5 @36863 has 20 MA's), (Start: 8 @36872 has 8 MA's), (28, 37142), (36, 37232), (56, 37373), (58, 37412), (59, 37439), (67, 37562), (70, 37604),

Gene: Kardashian_56 Start: 37105, Stop: 37929, Start Num: 5

Candidate Starts for Kardashian_56:

(1, 36997), (2, 37027), (Start: 5 @37105 has 20 MA's), (Start: 7 @37114 has 1 MA's), (10, 37150), (40, 37513), (41, 37516), (64, 37810),

Gene: Madamoto_60 Start: 37006, Stop: 37764, Start Num: 5

Candidate Starts for Madamoto_60:

(3, 36988), (Start: 5 @37006 has 20 MA's), (Start: 8 @37015 has 8 MA's), (44, 37408), (46, 37417), (52, 37471), (56, 37510), (59, 37576), (67, 37699), (69, 37738),

Gene: Maya_58 Start: 36877, Stop: 37632, Start Num: 5

Candidate Starts for Maya_58:

(Start: 5 @36877 has 20 MA's), (Start: 8 @36886 has 8 MA's), (28, 37156), (36, 37246), (56, 37387), (58, 37426), (59, 37453), (67, 37576), (70, 37618),

Gene: Meibysrarus_56 Start: 36240, Stop: 36995, Start Num: 5

Candidate Starts for Meibysrarus_56:

(Start: 5 @36240 has 20 MA's), (Start: 8 @36249 has 8 MA's), (28, 36519), (36, 36609), (56, 36750), (58, 36789), (59, 36816), (67, 36939), (70, 36981),

Gene: Miek_54 Start: 34955, Stop: 35731, Start Num: 5

Candidate Starts for Miek_54:

(2, 34877), (Start: 5 @34955 has 20 MA's), (Start: 7 @34964 has 1 MA's), (32, 35261), (34, 35273), (39, 35315), (44, 35360), (45, 35366), (53, 35447), (54, 35450), (57, 35471), (60, 35549), (67, 35669), (71, 35723),

Gene: Moozy_40 Start: 29067, Stop: 29765, Start Num: 4

Candidate Starts for Moozy_40:

(Start: 4 @29067 has 10 MA's), (Start: 8 @29082 has 8 MA's), (Start: 9 @29085 has 1 MA's), (13, 29133), (15, 29145), (24, 29241), (25, 29271), (27, 29298), (38, 29412), (47, 29475), (64, 29658), (65, 29670), (66, 29679), (67, 29700),

Gene: Namo_59 Start: 37214, Stop: 37969, Start Num: 5

Candidate Starts for Namo_59:

(Start: 5 @37214 has 20 MA's), (Start: 8 @37223 has 8 MA's), (28, 37493), (56, 37724), (58, 37763), (59, 37790), (67, 37913), (70, 37955),

Gene: OlympicHelado_58 Start: 36900, Stop: 37625, Start Num: 8

Candidate Starts for OlympicHelado_58:

(Start: 5 @36891 has 20 MA's), (Start: 8 @36900 has 8 MA's), (28, 37170), (56, 37380), (58, 37419), (59, 37446), (67, 37569), (70, 37611),

Gene: PherryCruz_40 Start: 29061, Stop: 29759, Start Num: 4

Candidate Starts for PherryCruz_40:

(Start: 4 @29061 has 10 MA's), (Start: 8 @29076 has 8 MA's), (Start: 9 @29079 has 1 MA's), (13, 29127), (15, 29139), (24, 29235), (25, 29265), (27, 29292), (29, 29322), (47, 29469), (64, 29652), (65, 29664), (66, 29673), (67, 29694),

Gene: Popy_58 Start: 37519, Stop: 38244, Start Num: 5

Candidate Starts for Popy_58:

(Start: 5 @37519 has 20 MA's), (Start: 8 @37528 has 8 MA's), (23, 37675), (28, 37765), (36, 37855), (56, 37999), (58, 38038), (59, 38065), (67, 38188), (70, 38230),

Gene: Rainydai_55 Start: 35639, Stop: 36406, Start Num: 7

Candidate Starts for Rainydai_55:

(2, 35552), (Start: 5 @35630 has 20 MA's), (Start: 7 @35639 has 1 MA's), (32, 35936), (34, 35948), (39, 35990), (44, 36035), (45, 36041), (53, 36122), (54, 36125), (57, 36146), (60, 36224), (67, 36344), (71, 36398),

Gene: RavenPuff_40 Start: 29061, Stop: 29759, Start Num: 4

Candidate Starts for RavenPuff_40:

(Start: 4 @29061 has 10 MA's), (Start: 8 @29076 has 8 MA's), (Start: 9 @29079 has 1 MA's), (13, 29127), (15, 29139), (24, 29235), (25, 29265), (27, 29292), (29, 29322), (47, 29469), (64, 29652), (65, 29664), (66, 29673), (67, 29694),

Gene: Regigigas_58 Start: 35631, Stop: 36407, Start Num: 5

Candidate Starts for Regigigas_58:

(2, 35553), (Start: 5 @35631 has 20 MA's), (Start: 7 @35640 has 1 MA's), (32, 35937), (34, 35949), (39, 35991), (44, 36036), (45, 36042), (53, 36123), (54, 36126), (57, 36147), (60, 36225), (67, 36345),

(71, 36399),

Gene: Rima_59 Start: 37214, Stop: 37969, Start Num: 5

Candidate Starts for Rima_59:

(Start: 5 @37214 has 20 MA's), (Start: 8 @37223 has 8 MA's), (28, 37493), (56, 37724), (58, 37763), (59, 37790), (67, 37913), (70, 37955),

Gene: RosaAsantewaa_37 Start: 28089, Stop: 28907, Start Num: 6

Candidate Starts for RosaAsantewaa_37:

(Start: 6 @28089 has 1 MA's), (13, 28146), (17, 28182), (22, 28245), (31, 28434), (42, 28515), (51, 28584), (59, 28713), (61, 28737), (63, 28752), (67, 28845), (68, 28857), (70, 28890),

Gene: Scap1_40 Start: 28953, Stop: 29648, Start Num: 4

Candidate Starts for Scap1_40:

(Start: 4 @28953 has 10 MA's), (Start: 8 @28968 has 8 MA's), (Start: 9 @28971 has 1 MA's), (18, 29064), (19, 29070), (24, 29127), (25, 29157), (29, 29214), (33, 29268), (47, 29358), (55, 29412), (62, 29496), (64, 29541), (65, 29553), (67, 29583), (68, 29595),

Gene: SendItCS_53 Start: 34943, Stop: 35719, Start Num: 5

Candidate Starts for SendItCS_53:

(2, 34865), (Start: 5 @34943 has 20 MA's), (Start: 7 @34952 has 1 MA's), (32, 35249), (34, 35261), (39, 35303), (44, 35348), (45, 35354), (53, 35435), (54, 35438), (57, 35459), (60, 35537), (67, 35657), (71, 35711),

Gene: SheRa_41 Start: 29108, Stop: 29806, Start Num: 4

Candidate Starts for SheRa_41:

(Start: 4 @29108 has 10 MA's), (Start: 8 @29123 has 8 MA's), (Start: 9 @29126 has 1 MA's), (13, 29174), (15, 29186), (24, 29282), (25, 29312), (27, 29339), (29, 29369), (47, 29516), (64, 29699), (65, 29711), (66, 29720), (67, 29741), (68, 29753),

Gene: Soshi_57 Start: 37138, Stop: 37860, Start Num: 5

Candidate Starts for Soshi_57:

(Start: 5 @37138 has 20 MA's), (Start: 8 @37147 has 8 MA's), (20, 37276), (28, 37384), (36, 37474), (56, 37615), (58, 37654), (59, 37681), (67, 37804), (70, 37846),

Gene: Spectropatronm_58 Start: 36879, Stop: 37625, Start Num: 8

Candidate Starts for Spectropatronm_58:

(Start: 5 @36870 has 20 MA's), (Start: 8 @36879 has 8 MA's), (28, 37149), (36, 37239), (56, 37380), (58, 37419), (59, 37446), (67, 37569), (70, 37611),

Gene: TaidaOne_58 Start: 37373, Stop: 38128, Start Num: 5

Candidate Starts for TaidaOne_58:

(Start: 5 @37373 has 20 MA's), (Start: 8 @37382 has 8 MA's), (28, 37652), (36, 37742), (56, 37883), (58, 37922), (59, 37949), (67, 38072), (70, 38114),

Gene: Thiqqums_57 Start: 35630, Stop: 36406, Start Num: 5

Candidate Starts for Thiqqums_57:

(2, 35552), (Start: 5 @35630 has 20 MA's), (Start: 7 @35639 has 1 MA's), (32, 35936), (34, 35948), (39, 35990), (44, 36035), (45, 36041), (53, 36122), (54, 36125), (57, 36146), (60, 36224), (67, 36344), (71, 36398),

Gene: TieDye_57 Start: 36461, Stop: 37204, Start Num: 5

Candidate Starts for TieDye_57:

(Start: 5 @36461 has 20 MA's), (Start: 8 @36470 has 8 MA's), (28, 36728), (36, 36818), (56, 36959), (58, 36998), (59, 37025), (67, 37148), (70, 37190),

Gene: TonyStarch_57 Start: 36612, Stop: 37367, Start Num: 5

Candidate Starts for TonyStarch_57:

(Start: 5 @36612 has 20 MA's), (Start: 8 @36621 has 8 MA's), (28, 36891), (36, 36981), (56, 37122), (58, 37161), (59, 37188), (67, 37311), (70, 37353),