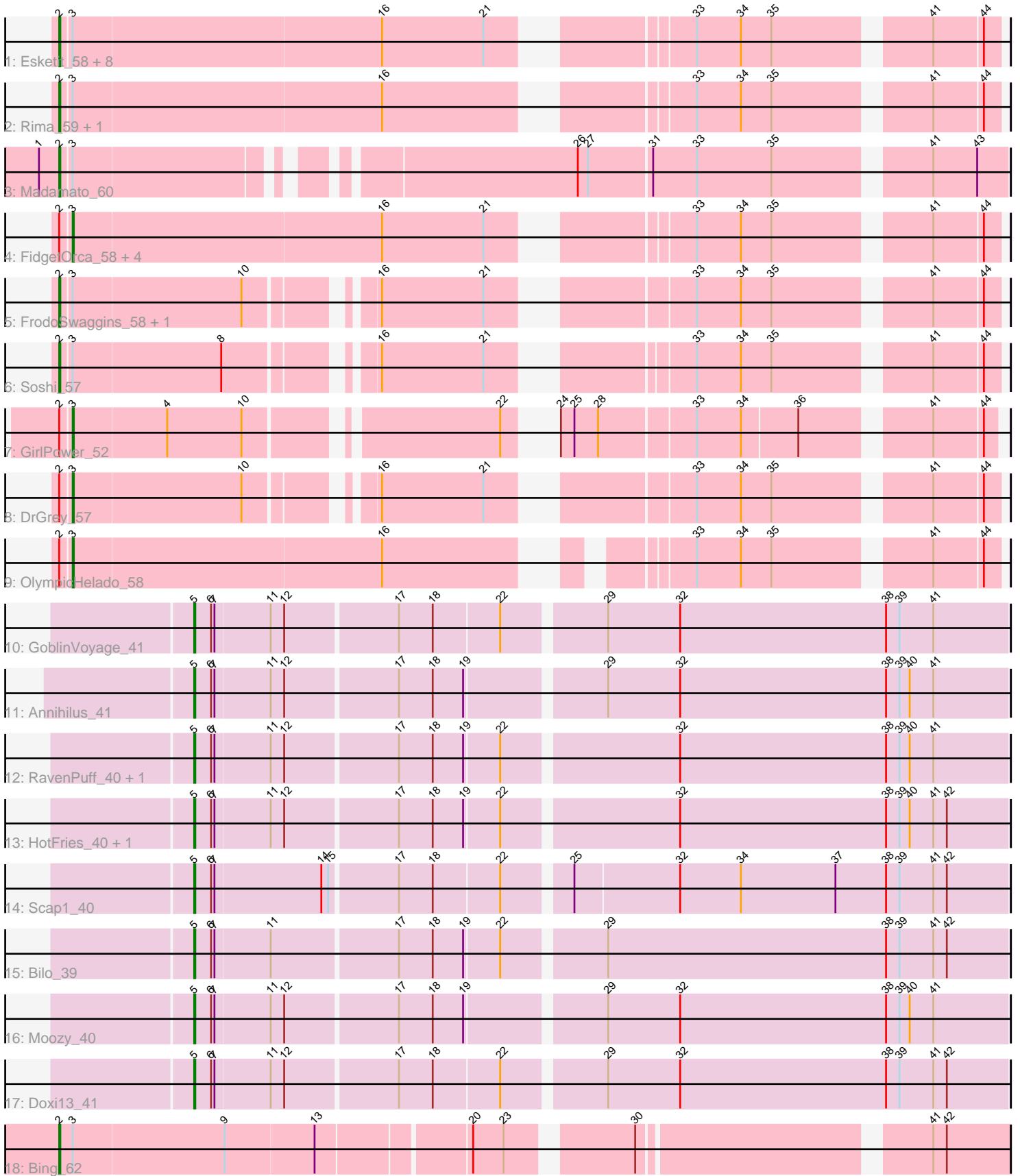


Pham 216388



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 216388 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216388 has 34 members, 0 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, Namo_59
- Track 3 : Madamoto_60
- Track 4 : FidgetOrca_58, Jaylociraptor_58, Indigenous_58, Spectropatronm_58, CherryBlossom_58
- Track 5 : FrodoSwaggins_58, Popy_58
- Track 6 : Soshi_57
- Track 7 : GirlPower_52
- Track 8 : DrGrey_57
- Track 9 : OlympicHelado_58
- Track 10 : GoblinVoyage_41
- Track 11 : Annihilus_41
- Track 12 : RavenPuff_40, PherryCruz_40
- Track 13 : HotFries_40, SheRa_41
- Track 14 : Scap1_40
- Track 15 : Bilo_39
- Track 16 : Moozy_40
- Track 17 : Doxi13_41
- Track 18 : Bing_62

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

The start number called the most often in the published annotations is 2, it was called in 16 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bing_62, Esketit_58, FrodoSwaggins_58, HazuAndZazu_57, Hoshi_57, IceWarrior_57, Madamoto_60, Maya_58, Meibysrarus_56, Namo_59, Popy_58, Rima_59, Soshi_57, TaidaOne_58, TieDye_57, TonyStarch_57,

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

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

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

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

Summary by start number:

Start 2:

- Found in 24 of 34 (70.6%) of genes in pham
- Manual Annotations of this start: 16 of 34
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Bing_62 (BI5), Esketit_58 (BI1), FrodoSwaggins_58 (BI1), HazuAndZazu_57 (BI1), Hoshi_57 (BI1), IceWarrior_57 (BI1), Madamato_60 (BI1), Maya_58 (BI1), Meibysrarus_56 (BI1), Namo_59 (BI1), Popy_58 (BI1), Rima_59 (BI1), Soshi_57 (BI1), TaidaOne_58 (BI1), TieDye_57 (BI1), TonyStarch_57 (BI1),

Start 3:

- Found in 24 of 34 (70.6%) of genes in pham
- Manual Annotations of this start: 8 of 34
- Called 33.3% 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 5:

- Found in 10 of 34 (29.4%) of genes in pham
- Manual Annotations of this start: 10 of 34
- 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),

Summary by clusters:

There are 3 clusters represented in this pham: BI5, BI2, BI1,

Info for manual annotations of cluster BI1:

- Start number 2 was manually annotated 15 times for cluster BI1.
- Start number 3 was manually annotated 8 times for cluster BI1.

Info for manual annotations of cluster BI2:

- Start number 5 was manually annotated 10 times for cluster BI2.

Info for manual annotations of cluster BI5:

- Start number 2 was manually annotated 1 time for cluster BI5.

Gene Information:

Gene: Annihilus_41 Start: 29092, Stop: 29790, Start Num: 5

Candidate Starts for Annihilus_41:

(Start: 5 @29092 has 10 MA's), (6, 29107), (7, 29110), (11, 29158), (12, 29170), (17, 29266), (18, 29296), (19, 29323), (29, 29437), (32, 29500), (38, 29683), (39, 29695), (40, 29704), (41, 29725),

Gene: Bilo_39 Start: 29209, Stop: 29907, Start Num: 5

Candidate Starts for Bilo_39:

(Start: 5 @29209 has 10 MA's), (6, 29224), (7, 29227), (11, 29275), (17, 29383), (18, 29413), (19, 29440), (22, 29470), (29, 29554), (38, 29800), (39, 29812), (41, 29842), (42, 29854),

Gene: Bing_62 Start: 37589, Stop: 38362, Start Num: 2

Candidate Starts for Bing_62:

(Start: 2 @37589 has 16 MA's), (Start: 3 @37601 has 8 MA's), (9, 37733), (13, 37811), (20, 37937), (23, 37964), (30, 38060), (41, 38294), (42, 38306),

Gene: CherryBlossom_58 Start: 36769, Stop: 37482, Start Num: 3

Candidate Starts for CherryBlossom_58:

(Start: 2 @36760 has 16 MA's), (Start: 3 @36769 has 8 MA's), (16, 37006), (21, 37096), (33, 37237), (34, 37276), (35, 37303), (41, 37426), (44, 37468),

Gene: Doxi13_41 Start: 29065, Stop: 29763, Start Num: 5

Candidate Starts for Doxi13_41:

(Start: 5 @29065 has 10 MA's), (6, 29080), (7, 29083), (11, 29131), (12, 29143), (17, 29239), (18, 29269), (22, 29326), (29, 29410), (32, 29473), (38, 29656), (39, 29668), (41, 29698), (42, 29710),

Gene: DrGrey_57 Start: 37134, Stop: 37850, Start Num: 3

Candidate Starts for DrGrey_57:

(Start: 2 @37125 has 16 MA's), (Start: 3 @37134 has 8 MA's), (10, 37281), (16, 37371), (21, 37461), (33, 37605), (34, 37644), (35, 37671), (41, 37794), (44, 37836),

Gene: Esketit_58 Start: 36870, Stop: 37625, Start Num: 2

Candidate Starts for Esketit_58:

(Start: 2 @36870 has 16 MA's), (Start: 3 @36879 has 8 MA's), (16, 37149), (21, 37239), (33, 37380), (34, 37419), (35, 37446), (41, 37569), (44, 37611),

Gene: FidgetOrca_58 Start: 36869, Stop: 37615, Start Num: 3

Candidate Starts for FidgetOrca_58:

(Start: 2 @36860 has 16 MA's), (Start: 3 @36869 has 8 MA's), (16, 37139), (21, 37229), (33, 37370), (34, 37409), (35, 37436), (41, 37559), (44, 37601),

Gene: FrodoSwaggins_58 Start: 37519, Stop: 38244, Start Num: 2

Candidate Starts for FrodoSwaggins_58:

(Start: 2 @37519 has 16 MA's), (Start: 3 @37528 has 8 MA's), (10, 37675), (16, 37765), (21, 37855), (33, 37999), (34, 38038), (35, 38065), (41, 38188), (44, 38230),

Gene: GirlPower_52 Start: 37115, Stop: 37828, Start Num: 3

Candidate Starts for GirlPower_52:

(Start: 2 @37106 has 16 MA's), (Start: 3 @37115 has 8 MA's), (4, 37196), (10, 37262), (22, 37460), (24, 37475), (25, 37487), (28, 37508), (33, 37589), (34, 37628), (36, 37676), (41, 37775), (44, 37817),

Gene: GoblinVoyage_41 Start: 29065, Stop: 29763, Start Num: 5

Candidate Starts for GoblinVoyage_41:

(Start: 5 @29065 has 10 MA's), (6, 29080), (7, 29083), (11, 29131), (12, 29143), (17, 29239), (18, 29269), (22, 29326), (29, 29410), (32, 29473), (38, 29656), (39, 29668), (41, 29698),

Gene: HazuAndZazu_57 Start: 37120, Stop: 37878, Start Num: 2

Candidate Starts for HazuAndZazu_57:

(Start: 2 @37120 has 16 MA's), (Start: 3 @37129 has 8 MA's), (16, 37399), (21, 37489), (33, 37633), (34, 37672), (35, 37699), (41, 37822), (44, 37864),

Gene: Hoshi_57 Start: 36467, Stop: 37222, Start Num: 2

Candidate Starts for Hoshi_57:

(Start: 2 @36467 has 16 MA's), (Start: 3 @36476 has 8 MA's), (16, 36746), (21, 36836), (33, 36977), (34, 37016), (35, 37043), (41, 37166), (44, 37208),

Gene: HotFries_40 Start: 29110, Stop: 29808, Start Num: 5

Candidate Starts for HotFries_40:

(Start: 5 @29110 has 10 MA's), (6, 29125), (7, 29128), (11, 29176), (12, 29188), (17, 29284), (18, 29314), (19, 29341), (22, 29371), (32, 29518), (38, 29701), (39, 29713), (40, 29722), (41, 29743), (42, 29755),

Gene: IceWarrior_57 Start: 36546, Stop: 37301, Start Num: 2

Candidate Starts for IceWarrior_57:

(Start: 2 @36546 has 16 MA's), (Start: 3 @36555 has 8 MA's), (16, 36825), (21, 36915), (33, 37056), (34, 37095), (35, 37122), (41, 37245), (44, 37287),

Gene: Indigenous_58 Start: 36873, Stop: 37619, Start Num: 3

Candidate Starts for Indigenous_58:

(Start: 2 @36864 has 16 MA's), (Start: 3 @36873 has 8 MA's), (16, 37143), (21, 37233), (33, 37374), (34, 37413), (35, 37440), (41, 37563), (44, 37605),

Gene: Jaylociraptor_58 Start: 36872, Stop: 37618, Start Num: 3

Candidate Starts for Jaylociraptor_58:

(Start: 2 @36863 has 16 MA's), (Start: 3 @36872 has 8 MA's), (16, 37142), (21, 37232), (33, 37373), (34, 37412), (35, 37439), (41, 37562), (44, 37604),

Gene: Madamoto_60 Start: 37006, Stop: 37764, Start Num: 2

Candidate Starts for Madamoto_60:

(1, 36988), (Start: 2 @37006 has 16 MA's), (Start: 3 @37015 has 8 MA's), (26, 37408), (27, 37417), (31, 37471), (33, 37510), (35, 37576), (41, 37699), (43, 37738),

Gene: Maya_58 Start: 36877, Stop: 37632, Start Num: 2

Candidate Starts for Maya_58:

(Start: 2 @36877 has 16 MA's), (Start: 3 @36886 has 8 MA's), (16, 37156), (21, 37246), (33, 37387), (34, 37426), (35, 37453), (41, 37576), (44, 37618),

Gene: Meibysrarus_56 Start: 36240, Stop: 36995, Start Num: 2

Candidate Starts for Meibysrarus_56:

(Start: 2 @36240 has 16 MA's), (Start: 3 @36249 has 8 MA's), (16, 36519), (21, 36609), (33, 36750), (34, 36789), (35, 36816), (41, 36939), (44, 36981),

Gene: Moozy_40 Start: 29067, Stop: 29765, Start Num: 5

Candidate Starts for Moozy_40:

(Start: 5 @29067 has 10 MA's), (6, 29082), (7, 29085), (11, 29133), (12, 29145), (17, 29241), (18, 29271), (19, 29298), (29, 29412), (32, 29475), (38, 29658), (39, 29670), (40, 29679), (41, 29700),

Gene: Namo_59 Start: 37214, Stop: 37969, Start Num: 2

Candidate Starts for Namo_59:

(Start: 2 @37214 has 16 MA's), (Start: 3 @37223 has 8 MA's), (16, 37493), (33, 37724), (34, 37763), (35, 37790), (41, 37913), (44, 37955),

Gene: OlympicHelado_58 Start: 36900, Stop: 37625, Start Num: 3

Candidate Starts for OlympicHelado_58:

(Start: 2 @36891 has 16 MA's), (Start: 3 @36900 has 8 MA's), (16, 37170), (33, 37380), (34, 37419), (35, 37446), (41, 37569), (44, 37611),

Gene: PherryCruz_40 Start: 29061, Stop: 29759, Start Num: 5

Candidate Starts for PherryCruz_40:

(Start: 5 @29061 has 10 MA's), (6, 29076), (7, 29079), (11, 29127), (12, 29139), (17, 29235), (18, 29265), (19, 29292), (22, 29322), (32, 29469), (38, 29652), (39, 29664), (40, 29673), (41, 29694),

Gene: Popy_58 Start: 37519, Stop: 38244, Start Num: 2

Candidate Starts for Popy_58:

(Start: 2 @37519 has 16 MA's), (Start: 3 @37528 has 8 MA's), (10, 37675), (16, 37765), (21, 37855), (33, 37999), (34, 38038), (35, 38065), (41, 38188), (44, 38230),

Gene: RavenPuff_40 Start: 29061, Stop: 29759, Start Num: 5

Candidate Starts for RavenPuff_40:

(Start: 5 @29061 has 10 MA's), (6, 29076), (7, 29079), (11, 29127), (12, 29139), (17, 29235), (18, 29265), (19, 29292), (22, 29322), (32, 29469), (38, 29652), (39, 29664), (40, 29673), (41, 29694),

Gene: Rima_59 Start: 37214, Stop: 37969, Start Num: 2

Candidate Starts for Rima_59:

(Start: 2 @37214 has 16 MA's), (Start: 3 @37223 has 8 MA's), (16, 37493), (33, 37724), (34, 37763), (35, 37790), (41, 37913), (44, 37955),

Gene: Scap1_40 Start: 28953, Stop: 29648, Start Num: 5

Candidate Starts for Scap1_40:

(Start: 5 @28953 has 10 MA's), (6, 28968), (7, 28971), (14, 29064), (15, 29070), (17, 29127), (18, 29157), (22, 29214), (25, 29268), (32, 29358), (34, 29412), (37, 29496), (38, 29541), (39, 29553), (41, 29583), (42, 29595),

Gene: SheRa_41 Start: 29108, Stop: 29806, Start Num: 5

Candidate Starts for SheRa_41:

(Start: 5 @29108 has 10 MA's), (6, 29123), (7, 29126), (11, 29174), (12, 29186), (17, 29282), (18, 29312), (19, 29339), (22, 29369), (32, 29516), (38, 29699), (39, 29711), (40, 29720), (41, 29741), (42, 29753),

Gene: Soshi_57 Start: 37138, Stop: 37860, Start Num: 2

Candidate Starts for Soshi_57:

(Start: 2 @37138 has 16 MA's), (Start: 3 @37147 has 8 MA's), (8, 37276), (16, 37384), (21, 37474), (33, 37615), (34, 37654), (35, 37681), (41, 37804), (44, 37846),

Gene: Spectropatronm_58 Start: 36879, Stop: 37625, Start Num: 3

Candidate Starts for Spectropatronm_58:

(Start: 2 @36870 has 16 MA's), (Start: 3 @36879 has 8 MA's), (16, 37149), (21, 37239), (33, 37380), (34, 37419), (35, 37446), (41, 37569), (44, 37611),

Gene: TaidaOne_58 Start: 37373, Stop: 38128, Start Num: 2

Candidate Starts for TaidaOne_58:

(Start: 2 @37373 has 16 MA's), (Start: 3 @37382 has 8 MA's), (16, 37652), (21, 37742), (33, 37883), (34, 37922), (35, 37949), (41, 38072), (44, 38114),

Gene: TieDye_57 Start: 36461, Stop: 37204, Start Num: 2

Candidate Starts for TieDye_57:

(Start: 2 @36461 has 16 MA's), (Start: 3 @36470 has 8 MA's), (16, 36728), (21, 36818), (33, 36959), (34, 36998), (35, 37025), (41, 37148), (44, 37190),

Gene: TonyStarch_57 Start: 36612, Stop: 37367, Start Num: 2

Candidate Starts for TonyStarch_57:

(Start: 2 @36612 has 16 MA's), (Start: 3 @36621 has 8 MA's), (16, 36891), (21, 36981), (33, 37122), (34, 37161), (35, 37188), (41, 37311), (44, 37353),