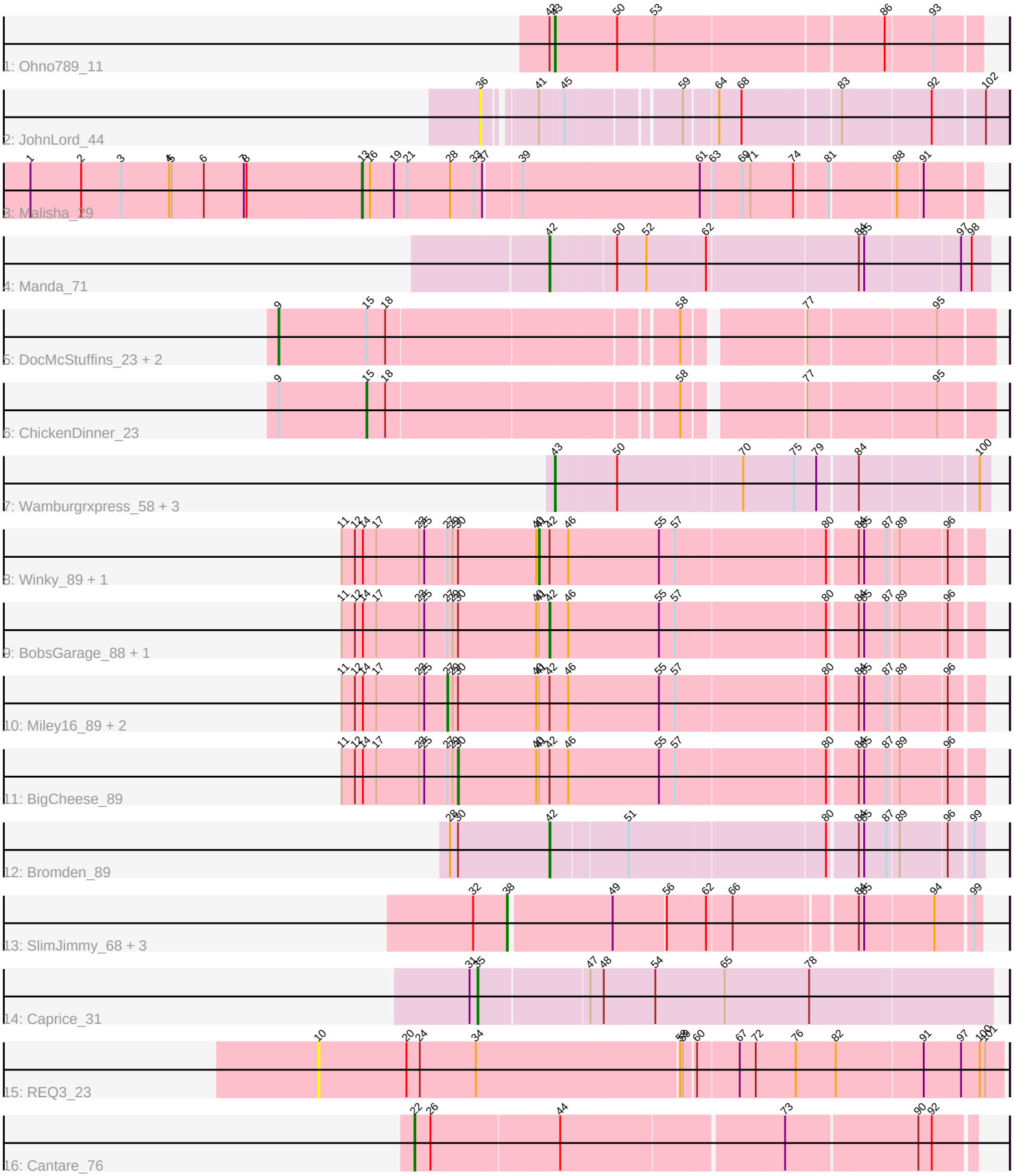
Pham 347936


1: Ohno789_11
2: JohnLord_44
3: Malisha_29
4: Manda_71
5: DocMcStuffins_23 + 2
6: ChickenDinner_23
7: Wamburgrxpress_58 + 3
8: Winky_89 + 1
9: BobsGarage_88 + 1
10: Miley16_89 + 2
11: BigCheese_89
12: Bromden_89
13: SlimJimmy_68 + 3
14: Caprice_31
15: REQ3_23
16: Cantare_76

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 347936 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347936 has 28 members, 4 are drafts.

Phages represented in each track:
- Track 1 : Ohno789_11
- Track 2 : JohnLord_44
- Track 3 : Malisha_29
- Track 4 : Manda_71
- Track 5 : DocMcStuffins_23, Aloeri_23, Piper2020_23
- Track 6 : ChickenDinner_23
- Track 7 : Wamburgrxpress_58, OhShagHennessy_56, Calm_59, Zaria_59
- Track 8 : Winky_89, Sarshaun_90
- Track 9 : BobsGarage_88, Soap141_89
- Track 10 : Miley16_89, Breezona_89, DrSeegs_88
- Track 11 : BigCheese_89
- Track 12 : Bromden_89
- Track 13 : SlimJimmy_68, Glaske16_70, FreakyGoo_70, Skinny_71
- Track 14 : Caprice_31
- Track 15 : REQ3_23
- Track 16 : Cantare_76

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

The start number called the most often in the published annotations is 43, it was called in 5 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Calm_59, OhShagHennessy_56, Ohno789_11, Wamburgrxpress_58, Zaria_59,

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

Genes that do not have the "Most Annotated" start:
- Aloeri_23, BigCheese_89, BobsGarage_88, Breezona_89, Bromden_89, Cantare_76, Caprice_31, ChickenDinner_23, DocMcStuffins_23, DrSeegs_88, FreakyGoo_70, Glaske16_70, JohnLord_44, Malisha_29, Manda_71, Miley16_89, Piper2020_23, REQ3_23, Sarshaun_90, Skinny_71, SlimJimmy_68, Soap141_89, Winky_89,

Summary by start number:

Start 9:
• Found in 4 of 28 (14.3%) of genes in pham
• Manual Annotations of this start: 3 of 24
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Aloeri_23 (F1), DocMcStuffins_23 (F1), Piper2020_23 (F1),

Start 10:
• Found in 1 of 28 (3.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: REQ3_23 (singleton),

Start 13:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Malisha_29 (DN),

Start 15:
• Found in 4 of 28 (14.3%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 25.0% of time when present
• Phage (with cluster) where this start called: ChickenDinner_23 (F1),

Start 22:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cantare_76 (singleton),

Start 27:
• Found in 8 of 28 (28.6%) of genes in pham
• Manual Annotations of this start: 3 of 24
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Breezona_89 (L2), DrSeegs_88 (L2), Miley16_89 (L2),

Start 30:
• Found in 9 of 28 (32.1%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 11.1% of time when present
• Phage (with cluster) where this start called: BigCheese_89 (L2),

Start 35:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Caprice_31 (S),

Start 36:
• Found in 1 of 28 (3.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JohnLord_44 (AD),

Start 38:
• Found in 4 of 28 (14.3%) of genes in pham
• Manual Annotations of this start: 4 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FreakyGoo_70 (M1), Glaske16_70 (M1), Skinny_71 (M1), SlimJimmy_68 (M1),

Start 41:
• Found in 9 of 28 (32.1%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 22.2% of time when present
• Phage (with cluster) where this start called: Sarshaun_90 (L2), Winky_89 (L2),

Start 42:
• Found in 11 of 28 (39.3%) of genes in pham
• Manual Annotations of this start: 3 of 24
• Called 36.4% of time when present
• Phage (with cluster) where this start called: BobsGarage_88 (L2), Bromden_89 (L4), Manda_71 (E), Soap141_89 (L2),

Start 43:
• Found in 5 of 28 (17.9%) of genes in pham
• Manual Annotations of this start: 5 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Calm_59 (L1), OhShagHennessy_56 (L1), Ohno789_11 (A1), Wamburgrxpress_58 (L1), Zaria_59 (L1),

Summary by clusters:

There are 11 clusters represented in this pham: DN, F1, singleton, E, AD, S, A1, L4, M1, L1, L2,

Info for manual annotations of cluster A1:
•Start number 43 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster DN:
•Start number 13 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster E:
•Start number 42 was manually annotated 1 time for cluster E.

Info for manual annotations of cluster F1:
•Start number 9 was manually annotated 3 times for cluster F1.
•Start number 15 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster L1:

•Start number 43 was manually annotated 4 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 27 was manually annotated 3 times for cluster L2.
•Start number 30 was manually annotated 1 time for cluster L2.
•Start number 41 was manually annotated 1 time for cluster L2.
•Start number 42 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L4:
•Start number 42 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster M1:
•Start number 38 was manually annotated 4 times for cluster M1.

Info for manual annotations of cluster S:
•Start number 35 was manually annotated 1 time for cluster S.

Gene Information:

Gene: Aloeri_23 Start: 23233, Stop: 23961, Start Num: 9
Candidate Starts for Aloeri_23:
(Start: 9 @23233 has 3 MA's), (Start: 15 @23332 has 1 MA's), (18, 23353), (58, 23656), (77, 23767), (95, 23905),

Gene: BigCheese_89 Start: 57485, Stop: 58045, Start Num: 30
Candidate Starts for BigCheese_89:
(11, 57356), (12, 57371), (14, 57380), (17, 57395), (23, 57443), (25, 57449), (Start: 27 @57473 has 3 MA's), (29, 57479), (Start: 30 @57485 has 1 MA's), (40, 57572), (Start: 41 @57575 has 1 MA's), (Start: 42 @57587 has 3 MA's), (46, 57608), (55, 57707), (57, 57725), (80, 57887), (84, 57917), (85, 57923), (87, 57947), (89, 57959), (96, 58010),

Gene: BobsGarage_88 Start: 57587, Stop: 58045, Start Num: 42
Candidate Starts for BobsGarage_88:
(11, 57356), (12, 57371), (14, 57380), (17, 57395), (23, 57443), (25, 57449), (Start: 27 @57473 has 3 MA's), (29, 57479), (Start: 30 @57485 has 1 MA's), (40, 57572), (Start: 41 @57575 has 1 MA's), (Start: 42 @57587 has 3 MA's), (46, 57608), (55, 57707), (57, 57725), (80, 57887), (84, 57917), (85, 57923), (87, 57947), (89, 57959), (96, 58010),

Gene: Breezona_89 Start: 57473, Stop: 58045, Start Num: 27
Candidate Starts for Breezona_89:
(11, 57356), (12, 57371), (14, 57380), (17, 57395), (23, 57443), (25, 57449), (Start: 27 @57473 has 3 MA's), (29, 57479), (Start: 30 @57485 has 1 MA's), (40, 57572), (Start: 41 @57575 has 1 MA's), (Start: 42 @57587 has 3 MA's), (46, 57608), (55, 57707), (57, 57725), (80, 57887), (84, 57917), (85, 57923), (87, 57947), (89, 57959), (96, 58010),

Gene: Bromden_89 Start: 57826, Stop: 58278, Start Num: 42
Candidate Starts for Bromden_89:
(28, 57715), (Start: 30 @57724 has 1 MA's), (Start: 42 @57826 has 3 MA's), (51, 57907), (80, 58120), (84, 58150), (85, 58156), (87, 58180), (89, 58192), (96, 58243), (99, 58267),

Gene: Calm_59 Start: 41416, Stop: 41874, Start Num: 43

Candidate Starts for Calm_59:
(Start: 43 @41416 has 5 MA's), (50, 41482), (70, 41617), (75, 41674), (79, 41698), (84, 41740), (100, 41863),

Gene: Cantare_76 Start: 62423, Stop: 63022, Start Num: 22
Candidate Starts for Cantare_76:
(Start: 22 @62423 has 1 MA's), (26, 62441), (44, 62582), (73, 62819), (90, 62963), (92, 62978),

Gene: Caprice_31 Start: 9282, Stop: 9845, Start Num: 35
Candidate Starts for Caprice_31:
(31, 9273), (Start: 35 @9282 has 1 MA's), (47, 9402), (48, 9417), (54, 9474), (65, 9552), (78, 9645),

Gene: ChickenDinner_23 Start: 23332, Stop: 23961, Start Num: 15
Candidate Starts for ChickenDinner_23:
(Start: 9 @23233 has 3 MA's), (Start: 15 @23332 has 1 MA's), (18, 23353), (58, 23656), (77, 23767), (95, 23905),

Gene: DocMcStuffins_23 Start: 23233, Stop: 23961, Start Num: 9
Candidate Starts for DocMcStuffins_23:
(Start: 9 @23233 has 3 MA's), (Start: 15 @23332 has 1 MA's), (18, 23353), (58, 23656), (77, 23767), (95, 23905),

Gene: DrSeegs_88 Start: 57473, Stop: 58045, Start Num: 27
Candidate Starts for DrSeegs_88:
(11, 57356), (12, 57371), (14, 57380), (17, 57395), (23, 57443), (25, 57449), (Start: 27 @57473 has 3 MA's), (29, 57479), (Start: 30 @57485 has 1 MA's), (40, 57572), (Start: 41 @57575 has 1 MA's), (Start: 42 @57587 has 3 MA's), (46, 57608), (55, 57707), (57, 57725), (80, 57887), (84, 57917), (85, 57923), (87, 57947), (89, 57959), (96, 58010),

Gene: FreakyGoo_70 Start: 44854, Stop: 45342, Start Num: 38
Candidate Starts for FreakyGoo_70:
(32, 44818), (Start: 38 @44854 has 4 MA's), (49, 44962), (56, 45019), (62, 45061), (66, 45088), (84, 45214), (85, 45220), (94, 45295), (99, 45334),

Gene: Glaske16_70 Start: 44853, Stop: 45341, Start Num: 38
Candidate Starts for Glaske16_70:
(32, 44817), (Start: 38 @44853 has 4 MA's), (49, 44961), (56, 45018), (62, 45060), (66, 45087), (84, 45213), (85, 45219), (94, 45294), (99, 45333),

Gene: JohnLord_44 Start: 39902, Stop: 39378, Start Num: 36
Candidate Starts for JohnLord_44:
(36, 39902), (Start: 41 @39854 has 1 MA's), (45, 39827), (59, 39713), (64, 39680), (68, 39656), (83, 39554), (92, 39458), (102, 39404),

Gene: Malisha_29 Start: 23381, Stop: 24040, Start Num: 13
Candidate Starts for Malisha_29:
(1, 23009), (2, 23066), (3, 23111), (4, 23165), (5, 23168), (6, 23204), (7, 23249), (8, 23252), (Start: 13 @23381 has 1 MA's), (16, 23390), (19, 23417), (21, 23432), (28, 23480), (33, 23507), (37, 23516), (39, 23555), (61, 23750), (63, 23762), (69, 23795), (71, 23804), (74, 23849), (81, 23885), (88, 23954), (91, 23981),

Gene: Manda_71 Start: 47070, Stop: 47540, Start Num: 42
Candidate Starts for Manda_71:

(Start: 42 @47070 has 3 MA's), (50, 47139), (52, 47172), (62, 47235), (84, 47400), (85, 47406), (97, 47508), (98, 47520),

Gene: Miley16_89 Start: 57473, Stop: 58045, Start Num: 27
Candidate Starts for Miley16_89:
(11, 57356), (12, 57371), (14, 57380), (17, 57395), (23, 57443), (25, 57449), (Start: 27 @57473 has 3 MA's), (29, 57479), (Start: 30 @57485 has 1 MA's), (40, 57572), (Start: 41 @57575 has 1 MA's), (Start: 42 @57587 has 3 MA's), (46, 57608), (55, 57707), (57, 57725), (80, 57887), (84, 57917), (85, 57923), (87, 57947), (89, 57959), (96, 58010),

Gene: OhShagHennessy_56 Start: 40304, Stop: 40762, Start Num: 43
Candidate Starts for OhShagHennessy_56:
(Start: 43 @40304 has 5 MA's), (50, 40370), (70, 40505), (75, 40562), (79, 40586), (84, 40628), (100, 40751),

Gene: Ohno789_11 Start: 8090, Stop: 8548, Start Num: 43
Candidate Starts for Ohno789_11:
(Start: 42 @8084 has 3 MA's), (Start: 43 @8090 has 5 MA's), (50, 8159), (53, 8201), (86, 8447), (93, 8498),

Gene: Piper2020_23 Start: 23232, Stop: 23960, Start Num: 9
Candidate Starts for Piper2020_23:
(Start: 9 @23232 has 3 MA's), (Start: 15 @23331 has 1 MA's), (18, 23352), (58, 23655), (77, 23766), (95, 23904),

Gene: REQ3_23 Start: 10266, Stop: 11021, Start Num: 10
Candidate Starts for REQ3_23:
(10, 10266), (20, 10365), (24, 10380), (34, 10443), (58, 10668), (59, 10671), (60, 10683), (67, 10728), (72, 10746), (76, 10791), (82, 10836), (91, 10932), (97, 10974), (100, 10995), (101, 11001),

Gene: Sarshaun_90 Start: 57970, Stop: 58440, Start Num: 41
Candidate Starts for Sarshaun_90:
(11, 57751), (12, 57766), (14, 57775), (17, 57790), (23, 57838), (25, 57844), (Start: 27 @57868 has 3 MA's), (29, 57874), (Start: 30 @57880 has 1 MA's), (40, 57967), (Start: 41 @57970 has 1 MA's), (Start: 42 @57982 has 3 MA's), (46, 58003), (55, 58102), (57, 58120), (80, 58282), (84, 58312), (85, 58318), (87, 58342), (89, 58354), (96, 58405),

Gene: Skinny_71 Start: 45287, Stop: 45775, Start Num: 38
Candidate Starts for Skinny_71:
(32, 45251), (Start: 38 @45287 has 4 MA's), (49, 45395), (56, 45452), (62, 45494), (66, 45521), (84, 45647), (85, 45653), (94, 45728), (99, 45767),

Gene: SlimJimmy_68 Start: 44842, Stop: 45330, Start Num: 38
Candidate Starts for SlimJimmy_68:
(32, 44806), (Start: 38 @44842 has 4 MA's), (49, 44950), (56, 45007), (62, 45049), (66, 45076), (84, 45202), (85, 45208), (94, 45283), (99, 45322),

Gene: Soap141_89 Start: 57982, Stop: 58440, Start Num: 42
Candidate Starts for Soap141_89:
(11, 57751), (12, 57766), (14, 57775), (17, 57790), (23, 57838), (25, 57844), (Start: 27 @57868 has 3 MA's), (29, 57874), (Start: 30 @57880 has 1 MA's), (40, 57967), (Start: 41 @57970 has 1 MA's), (Start: 42 @57982 has 3 MA's), (46, 58003), (55, 58102), (57, 58120), (80, 58282), (84, 58312), (85, 58318), (87, 58342), (89, 58354), (96, 58405),

Gene: Wamburgrxpress_58 Start: 41304, Stop: 41762, Start Num: 43
Candidate Starts for Wamburgrxpress_58:
(Start: 43 @41304 has 5 MA's), (50, 41370), (70, 41505), (75, 41562), (79, 41586), (84, 41628), (100, 41751),

Gene: Winky_89 Start: 57575, Stop: 58045, Start Num: 41
Candidate Starts for Winky_89:
(11, 57356), (12, 57371), (14, 57380), (17, 57395), (23, 57443), (25, 57449), (Start: 27 @57473 has 3 MA's), (29, 57479), (Start: 30 @57485 has 1 MA's), (40, 57572), (Start: 41 @57575 has 1 MA's), (Start: 42 @57587 has 3 MA's), (46, 57608), (55, 57707), (57, 57725), (80, 57887), (84, 57917), (85, 57923), (87, 57947), (89, 57959), (96, 58010),

Gene: Zaria_59 Start: 41416, Stop: 41874, Start Num: 43
Candidate Starts for Zaria_59:
(Start: 43 @41416 has 5 MA's), (50, 41482), (70, 41617), (75, 41674), (79, 41698), (84, 41740), (100, 41863),