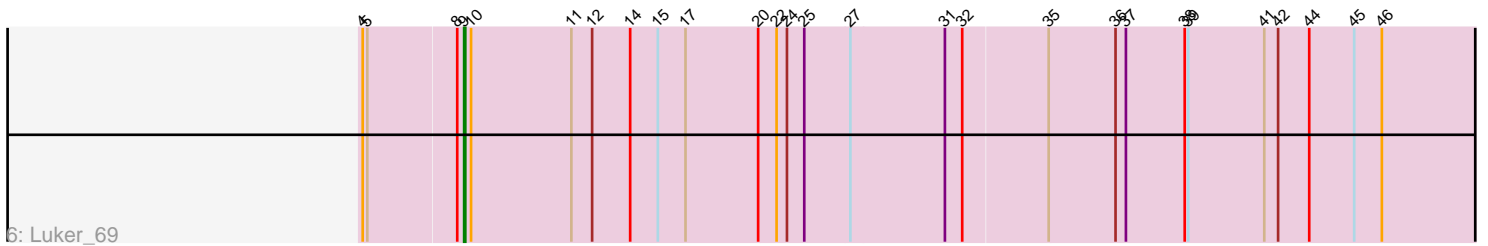
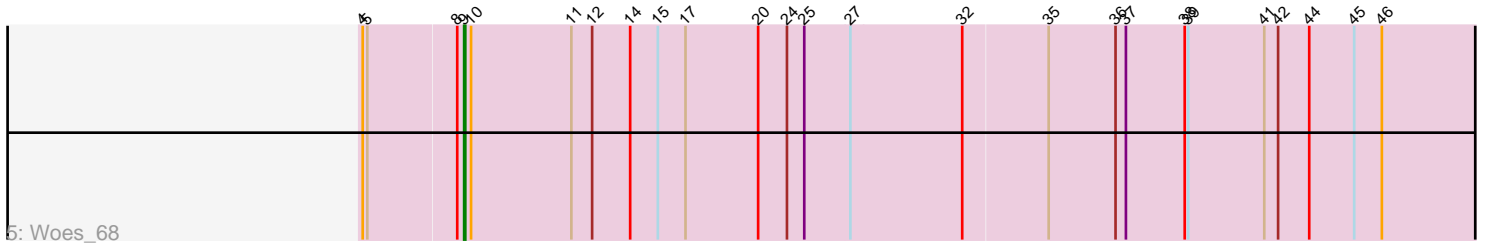
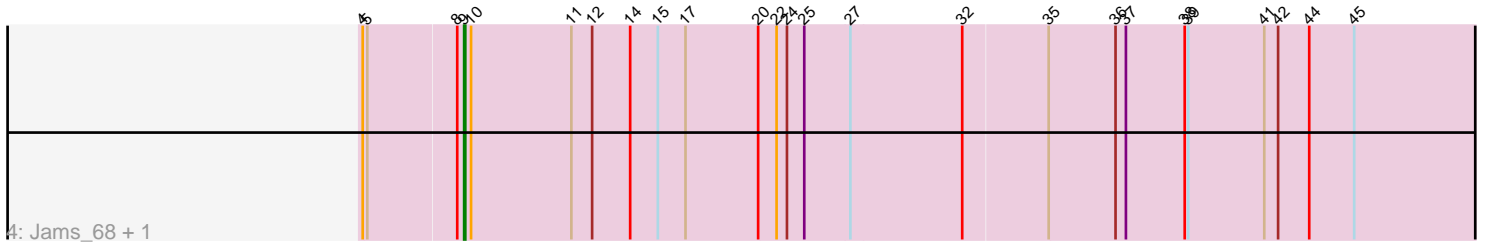
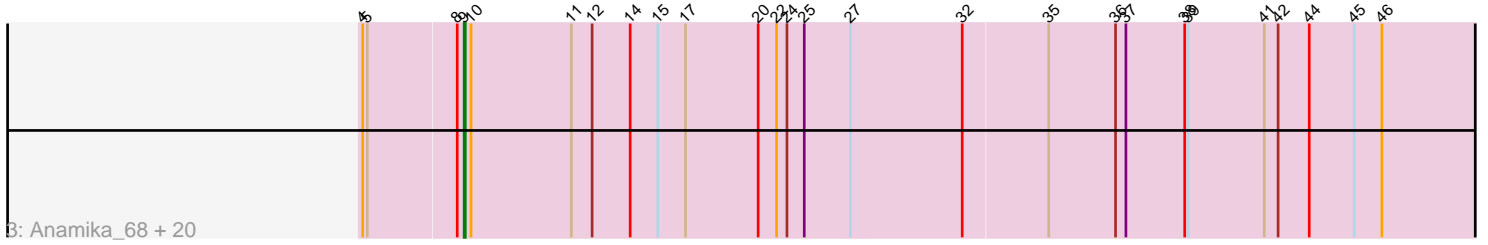
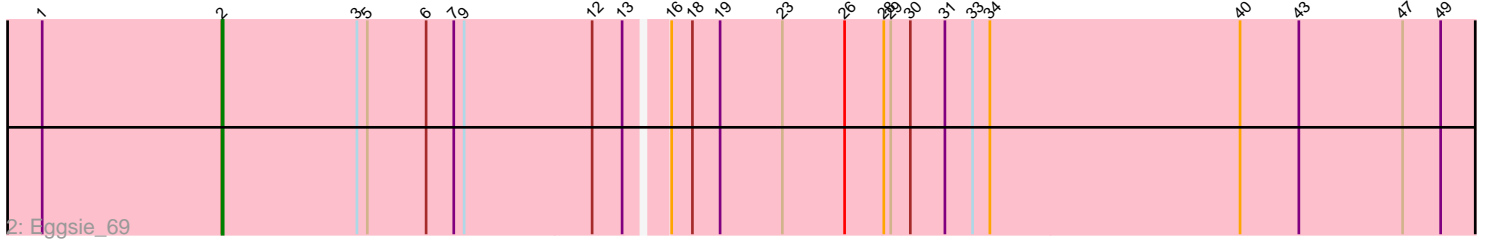
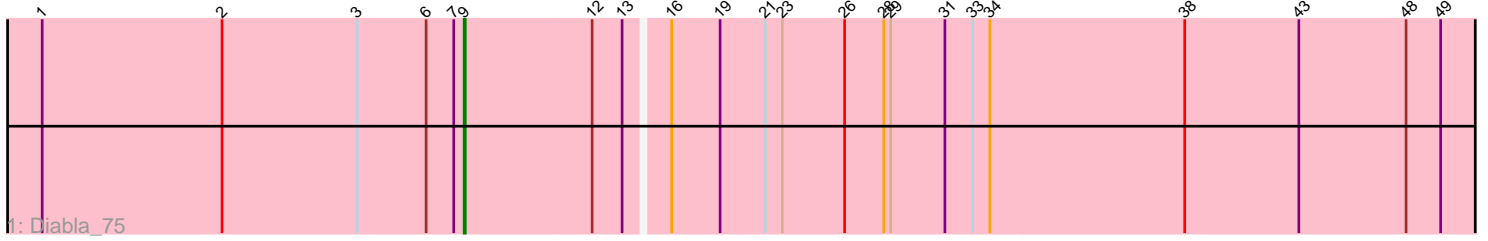


Pham 295010



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 295010 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295010 has 27 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Diabla_75
- Track 2 : Eggsie_69
- Track 3 : Anamika_68, Lahirium_68, Newt_69, Hail2Pitt_67, Kaseim_68, Neoevie_68, Charianelly_68, Nimi13_68, Minos_69, Lidong_68, Sticker17_68, Bianmat_68, Jormungandr_68, Damp_68, Guillaume_68, GalacticEye_68, Teal_68, Berries_68, Shelley_68, MrWormie_68, Hello_68
- Track 4 : Jams_68, Harambe_68
- Track 5 : Woes_68
- Track 6 : Luker_69

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

The start number called the most often in the published annotations is 9, it was called in 26 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anamika_68, Berries_68, Bianmat_68, Charianelly_68, Damp_68, Diabla_75, GalacticEye_68, Guillaume_68, Hail2Pitt_67, Harambe_68, Hello_68, Jams_68, Jormungandr_68, Kaseim_68, Lahirium_68, Lidong_68, Luker_69, Minos_69, MrWormie_68, Neoevie_68, Newt_69, Nimi13_68, Shelley_68, Sticker17_68, Teal_68, Woes_68,

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

- Eggsie_69,

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

-

Summary by start number:

Start 2:

- Found in 2 of 27 (7.4%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 50.0% of time when present

- Phage (with cluster) where this start called: Eggsie_69 (CS2),

Start 9:

- Found in 27 of 27 (100.0%) of genes in pham
- Manual Annotations of this start: 26 of 27
- Called 96.3% of time when present
- Phage (with cluster) where this start called: Anamika_68 (CS3), Berries_68 (CS3), Bianmat_68 (CS3), Charianelly_68 (CS3), Damp_68 (CS3), Diabla_75 (CS2), GalacticEye_68 (CS3), Guillaume_68 (CS3), Hail2Pitt_67 (CS3), Harambe_68 (CS3), Hello_68 (CS3), Jams_68 (CS3), Jormungandr_68 (CS3), Kaseim_68 (CS3), Lahirium_68 (CS3), Lidong_68 (CS3), Luker_69 (CS3), Minos_69 (CS3), MrWormie_68 (CS3), Neoevie_68 (CS3), Newt_69 (CS3), Nimi13_68 (CS3), Shelley_68 (CS3), Sticker17_68 (CS3), Teal_68 (CS3), Woes_68 (CS3),

Summary by clusters:

There are 2 clusters represented in this pham: CS3, CS2,

Info for manual annotations of cluster CS2:

- Start number 2 was manually annotated 1 time for cluster CS2.
- Start number 9 was manually annotated 1 time for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 9 was manually annotated 25 times for cluster CS3.

Gene Information:

Gene: Anamika_68 Start: 58220, Stop: 57327, Start Num: 9

Candidate Starts for Anamika_68:

(4, 58304), (5, 58301), (8, 58226), (Start: 9 @58220 has 26 MA's), (10, 58214), (11, 58127), (12, 58109), (14, 58076), (15, 58052), (17, 58028), (20, 57965), (22, 57950), (24, 57941), (25, 57926), (27, 57887), (32, 57791), (35, 57719), (36, 57662), (37, 57653), (38, 57602), (39, 57599), (41, 57533), (42, 57521), (44, 57494), (45, 57455), (46, 57431),

Gene: Berries_68 Start: 58192, Stop: 57299, Start Num: 9

Candidate Starts for Berries_68:

(4, 58276), (5, 58273), (8, 58198), (Start: 9 @58192 has 26 MA's), (10, 58186), (11, 58099), (12, 58081), (14, 58048), (15, 58024), (17, 58000), (20, 57937), (22, 57922), (24, 57913), (25, 57898), (27, 57859), (32, 57763), (35, 57691), (36, 57634), (37, 57625), (38, 57574), (39, 57571), (41, 57505), (42, 57493), (44, 57466), (45, 57427), (46, 57403),

Gene: Bianmat_68 Start: 58232, Stop: 57339, Start Num: 9

Candidate Starts for Bianmat_68:

(4, 58316), (5, 58313), (8, 58238), (Start: 9 @58232 has 26 MA's), (10, 58226), (11, 58139), (12, 58121), (14, 58088), (15, 58064), (17, 58040), (20, 57977), (22, 57962), (24, 57953), (25, 57938), (27, 57899), (32, 57803), (35, 57731), (36, 57674), (37, 57665), (38, 57614), (39, 57611), (41, 57545), (42, 57533), (44, 57506), (45, 57467), (46, 57443),

Gene: Charianelly_68 Start: 57942, Stop: 57049, Start Num: 9

Candidate Starts for Charianelly_68:

(4, 58026), (5, 58023), (8, 57948), (Start: 9 @57942 has 26 MA's), (10, 57936), (11, 57849), (12, 57831), (14, 57798), (15, 57774), (17, 57750), (20, 57687), (22, 57672), (24, 57663), (25, 57648), (27, 57609), (32, 57513), (35, 57441), (36, 57384), (37, 57375), (38, 57324), (39, 57321), (41, 57255), (42, 57243), (44, 57216), (45, 57177), (46, 57153),

Gene: Damp_68 Start: 57106, Stop: 56213, Start Num: 9

Candidate Starts for Damp_68:

(4, 57190), (5, 57187), (8, 57112), (Start: 9 @57106 has 26 MA's), (10, 57100), (11, 57013), (12, 56995), (14, 56962), (15, 56938), (17, 56914), (20, 56851), (22, 56836), (24, 56827), (25, 56812), (27, 56773), (32, 56677), (35, 56605), (36, 56548), (37, 56539), (38, 56488), (39, 56485), (41, 56419), (42, 56407), (44, 56380), (45, 56341), (46, 56317),

Gene: Diabla_75 Start: 59496, Stop: 58618, Start Num: 9

Candidate Starts for Diabla_75:

(1, 59862), (Start: 2 @59706 has 1 MA's), (3, 59589), (6, 59529), (7, 59505), (Start: 9 @59496 has 26 MA's), (12, 59388), (13, 59364), (16, 59331), (19, 59289), (21, 59250), (23, 59235), (26, 59181), (28, 59148), (29, 59142), (31, 59097), (33, 59073), (34, 59058), (38, 58890), (43, 58791), (48, 58698), (49, 58668),

Gene: Eggsie_69 Start: 57507, Stop: 56422, Start Num: 2

Candidate Starts for Eggsie_69:

(1, 57663), (Start: 2 @57507 has 1 MA's), (3, 57390), (5, 57381), (6, 57330), (7, 57306), (Start: 9 @57297 has 26 MA's), (12, 57189), (13, 57165), (16, 57135), (18, 57117), (19, 57093), (23, 57039), (26, 56985), (28, 56952), (29, 56946), (30, 56931), (31, 56901), (33, 56877), (34, 56862), (40, 56646), (43, 56595), (47, 56505), (49, 56472),

Gene: GalacticEye_68 Start: 57903, Stop: 57010, Start Num: 9

Candidate Starts for GalacticEye_68:

(4, 57987), (5, 57984), (8, 57909), (Start: 9 @57903 has 26 MA's), (10, 57897), (11, 57810), (12, 57792), (14, 57759), (15, 57735), (17, 57711), (20, 57648), (22, 57633), (24, 57624), (25, 57609), (27, 57570), (32, 57474), (35, 57402), (36, 57345), (37, 57336), (38, 57285), (39, 57282), (41, 57216), (42, 57204), (44, 57177), (45, 57138), (46, 57114),

Gene: Guillaume_68 Start: 57953, Stop: 57060, Start Num: 9

Candidate Starts for Guillaume_68:

(4, 58037), (5, 58034), (8, 57959), (Start: 9 @57953 has 26 MA's), (10, 57947), (11, 57860), (12, 57842), (14, 57809), (15, 57785), (17, 57761), (20, 57698), (22, 57683), (24, 57674), (25, 57659), (27, 57620), (32, 57524), (35, 57452), (36, 57395), (37, 57386), (38, 57335), (39, 57332), (41, 57266), (42, 57254), (44, 57227), (45, 57188), (46, 57164),

Gene: Hail2Pitt_67 Start: 58429, Stop: 57536, Start Num: 9

Candidate Starts for Hail2Pitt_67:

(4, 58513), (5, 58510), (8, 58435), (Start: 9 @58429 has 26 MA's), (10, 58423), (11, 58336), (12, 58318), (14, 58285), (15, 58261), (17, 58237), (20, 58174), (22, 58159), (24, 58150), (25, 58135), (27, 58096), (32, 58000), (35, 57928), (36, 57871), (37, 57862), (38, 57811), (39, 57808), (41, 57742), (42, 57730), (44, 57703), (45, 57664), (46, 57640),

Gene: Harambe_68 Start: 58220, Stop: 57327, Start Num: 9

Candidate Starts for Harambe_68:

(4, 58304), (5, 58301), (8, 58226), (Start: 9 @58220 has 26 MA's), (10, 58214), (11, 58127), (12, 58109), (14, 58076), (15, 58052), (17, 58028), (20, 57965), (22, 57950), (24, 57941), (25, 57926), (27, 57887), (32, 57791), (35, 57719), (36, 57662), (37, 57653), (38, 57602), (39, 57599), (41, 57533), (42, 57521), (44, 57494), (45, 57455),

Gene: Hello_68 Start: 58182, Stop: 57289, Start Num: 9

Candidate Starts for Hello_68:

(4, 58266), (5, 58263), (8, 58188), (Start: 9 @58182 has 26 MA's), (10, 58176), (11, 58089), (12, 58071), (14, 58038), (15, 58014), (17, 57990), (20, 57927), (22, 57912), (24, 57903), (25, 57888), (27, 57849), (32, 57753), (35, 57681), (36, 57624), (37, 57615), (38, 57564), (39, 57561), (41, 57495), (42, 57483), (44, 57456), (45, 57417), (46, 57393),

Gene: Jams_68 Start: 57392, Stop: 56499, Start Num: 9

Candidate Starts for Jams_68:

(4, 57476), (5, 57473), (8, 57398), (Start: 9 @57392 has 26 MA's), (10, 57386), (11, 57299), (12, 57281), (14, 57248), (15, 57224), (17, 57200), (20, 57137), (22, 57122), (24, 57113), (25, 57098), (27, 57059), (32, 56963), (35, 56891), (36, 56834), (37, 56825), (38, 56774), (39, 56771), (41, 56705), (42, 56693), (44, 56666), (45, 56627),

Gene: Jormungandr_68 Start: 57935, Stop: 57042, Start Num: 9

Candidate Starts for Jormungandr_68:

(4, 58019), (5, 58016), (8, 57941), (Start: 9 @57935 has 26 MA's), (10, 57929), (11, 57842), (12, 57824), (14, 57791), (15, 57767), (17, 57743), (20, 57680), (22, 57665), (24, 57656), (25, 57641), (27, 57602), (32, 57506), (35, 57434), (36, 57377), (37, 57368), (38, 57317), (39, 57314), (41, 57248), (42, 57236), (44, 57209), (45, 57170), (46, 57146),

Gene: Kaseim_68 Start: 57377, Stop: 56484, Start Num: 9

Candidate Starts for Kaseim_68:

(4, 57461), (5, 57458), (8, 57383), (Start: 9 @57377 has 26 MA's), (10, 57371), (11, 57284), (12, 57266), (14, 57233), (15, 57209), (17, 57185), (20, 57122), (22, 57107), (24, 57098), (25, 57083), (27, 57044), (32, 56948), (35, 56876), (36, 56819), (37, 56810), (38, 56759), (39, 56756), (41, 56690), (42, 56678), (44, 56651), (45, 56612), (46, 56588),

Gene: Lahirium_68 Start: 58457, Stop: 57564, Start Num: 9

Candidate Starts for Lahirium_68:

(4, 58541), (5, 58538), (8, 58463), (Start: 9 @58457 has 26 MA's), (10, 58451), (11, 58364), (12, 58346), (14, 58313), (15, 58289), (17, 58265), (20, 58202), (22, 58187), (24, 58178), (25, 58163), (27, 58124), (32, 58028), (35, 57956), (36, 57899), (37, 57890), (38, 57839), (39, 57836), (41, 57770), (42, 57758), (44, 57731), (45, 57692), (46, 57668),

Gene: Lidong_68 Start: 58192, Stop: 57299, Start Num: 9

Candidate Starts for Lidong_68:

(4, 58276), (5, 58273), (8, 58198), (Start: 9 @58192 has 26 MA's), (10, 58186), (11, 58099), (12, 58081), (14, 58048), (15, 58024), (17, 58000), (20, 57937), (22, 57922), (24, 57913), (25, 57898), (27, 57859), (32, 57763), (35, 57691), (36, 57634), (37, 57625), (38, 57574), (39, 57571), (41, 57505), (42, 57493), (44, 57466), (45, 57427), (46, 57403),

Gene: Luker_69 Start: 58410, Stop: 57517, Start Num: 9

Candidate Starts for Luker_69:

(4, 58494), (5, 58491), (8, 58416), (Start: 9 @58410 has 26 MA's), (10, 58404), (11, 58317), (12, 58299), (14, 58266), (15, 58242), (17, 58218), (20, 58155), (22, 58140), (24, 58131), (25, 58116), (27, 58077), (31, 57996), (32, 57981), (35, 57909), (36, 57852), (37, 57843), (38, 57792), (39, 57789), (41, 57723), (42, 57711), (44, 57684), (45, 57645), (46, 57621),

Gene: Minos_69 Start: 57934, Stop: 57041, Start Num: 9

Candidate Starts for Minos_69:

(4, 58018), (5, 58015), (8, 57940), (Start: 9 @57934 has 26 MA's), (10, 57928), (11, 57841), (12, 57823), (14, 57790), (15, 57766), (17, 57742), (20, 57679), (22, 57664), (24, 57655), (25, 57640), (27, 57601), (32, 57505), (35, 57433), (36, 57376), (37, 57367), (38, 57316), (39, 57313), (41, 57247), (42, 57235), (44, 57208), (45, 57169), (46, 57145),

Gene: MrWormie_68 Start: 57095, Stop: 56202, Start Num: 9

Candidate Starts for MrWormie_68:

(4, 57179), (5, 57176), (8, 57101), (Start: 9 @57095 has 26 MA's), (10, 57089), (11, 57002), (12, 56984), (14, 56951), (15, 56927), (17, 56903), (20, 56840), (22, 56825), (24, 56816), (25, 56801), (27, 56762), (32, 56666), (35, 56594), (36, 56537), (37, 56528), (38, 56477), (39, 56474), (41, 56408), (42, 56396), (44, 56369), (45, 56330), (46, 56306),

Gene: Neoevie_68 Start: 58196, Stop: 57303, Start Num: 9

Candidate Starts for Neoevie_68:

(4, 58280), (5, 58277), (8, 58202), (Start: 9 @58196 has 26 MA's), (10, 58190), (11, 58103), (12, 58085), (14, 58052), (15, 58028), (17, 58004), (20, 57941), (22, 57926), (24, 57917), (25, 57902), (27, 57863), (32, 57767), (35, 57695), (36, 57638), (37, 57629), (38, 57578), (39, 57575), (41, 57509), (42, 57497), (44, 57470), (45, 57431), (46, 57407),

Gene: Newt_69 Start: 58424, Stop: 57531, Start Num: 9

Candidate Starts for Newt_69:

(4, 58508), (5, 58505), (8, 58430), (Start: 9 @58424 has 26 MA's), (10, 58418), (11, 58331), (12, 58313), (14, 58280), (15, 58256), (17, 58232), (20, 58169), (22, 58154), (24, 58145), (25, 58130), (27, 58091), (32, 57995), (35, 57923), (36, 57866), (37, 57857), (38, 57806), (39, 57803), (41, 57737), (42, 57725), (44, 57698), (45, 57659), (46, 57635),

Gene: Nimi13_68 Start: 57943, Stop: 57050, Start Num: 9

Candidate Starts for Nimi13_68:

(4, 58027), (5, 58024), (8, 57949), (Start: 9 @57943 has 26 MA's), (10, 57937), (11, 57850), (12, 57832), (14, 57799), (15, 57775), (17, 57751), (20, 57688), (22, 57673), (24, 57664), (25, 57649), (27, 57610), (32, 57514), (35, 57442), (36, 57385), (37, 57376), (38, 57325), (39, 57322), (41, 57256), (42, 57244), (44, 57217), (45, 57178), (46, 57154),

Gene: Shelley_68 Start: 57419, Stop: 56526, Start Num: 9

Candidate Starts for Shelley_68:

(4, 57503), (5, 57500), (8, 57425), (Start: 9 @57419 has 26 MA's), (10, 57413), (11, 57326), (12, 57308), (14, 57275), (15, 57251), (17, 57227), (20, 57164), (22, 57149), (24, 57140), (25, 57125), (27, 57086), (32, 56990), (35, 56918), (36, 56861), (37, 56852), (38, 56801), (39, 56798), (41, 56732), (42, 56720), (44, 56693), (45, 56654), (46, 56630),

Gene: Sticker17_68 Start: 57907, Stop: 57014, Start Num: 9

Candidate Starts for Sticker17_68:

(4, 57991), (5, 57988), (8, 57913), (Start: 9 @57907 has 26 MA's), (10, 57901), (11, 57814), (12, 57796), (14, 57763), (15, 57739), (17, 57715), (20, 57652), (22, 57637), (24, 57628), (25, 57613), (27, 57574), (32, 57478), (35, 57406), (36, 57349), (37, 57340), (38, 57289), (39, 57286), (41, 57220), (42, 57208), (44, 57181), (45, 57142), (46, 57118),

Gene: Teal_68 Start: 58401, Stop: 57508, Start Num: 9

Candidate Starts for Teal_68:

(4, 58485), (5, 58482), (8, 58407), (Start: 9 @58401 has 26 MA's), (10, 58395), (11, 58308), (12, 58290), (14, 58257), (15, 58233), (17, 58209), (20, 58146), (22, 58131), (24, 58122), (25, 58107), (27, 58068), (32, 57972), (35, 57900), (36, 57843), (37, 57834), (38, 57783), (39, 57780), (41, 57714), (42, 57702), (44, 57675), (45, 57636), (46, 57612),

Gene: Woes_68 Start: 58452, Stop: 57559, Start Num: 9

Candidate Starts for Woes_68:

(4, 58536), (5, 58533), (8, 58458), (Start: 9 @58452 has 26 MA's), (10, 58446), (11, 58359), (12, 58341), (14, 58308), (15, 58284), (17, 58260), (20, 58197), (24, 58173), (25, 58158), (27, 58119), (32, 58023), (35, 57951), (36, 57894), (37, 57885), (38, 57834), (39, 57831), (41, 57765), (42, 57753), (44, 57726), (45, 57687), (46, 57663),