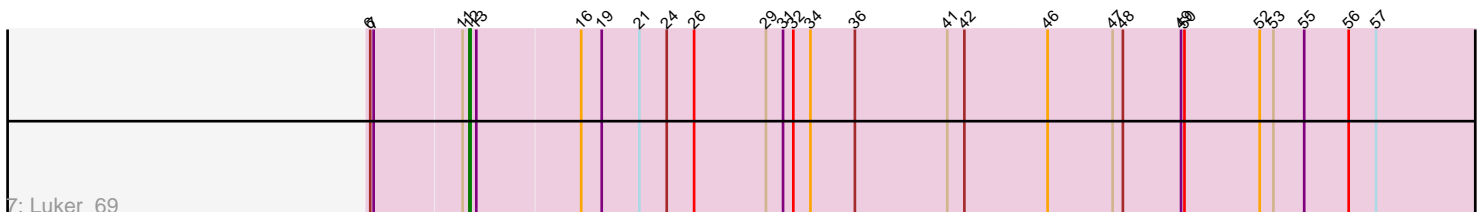
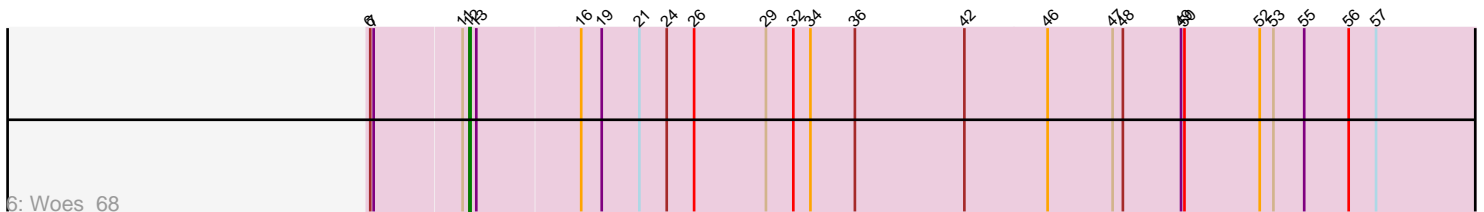
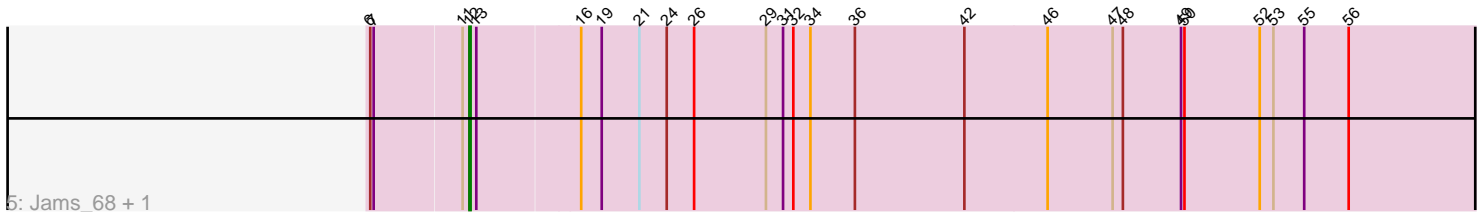
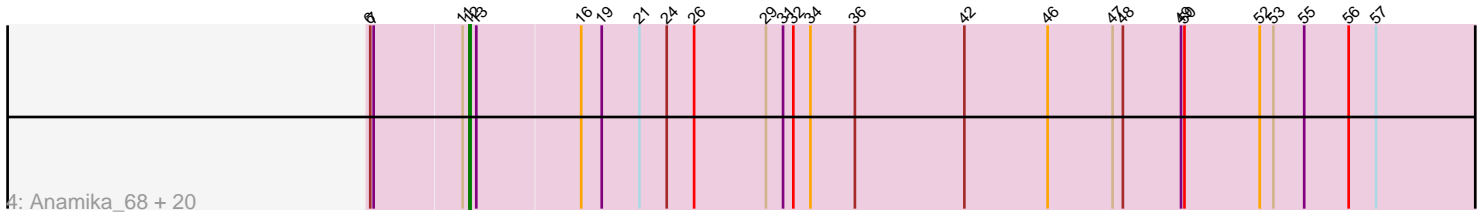
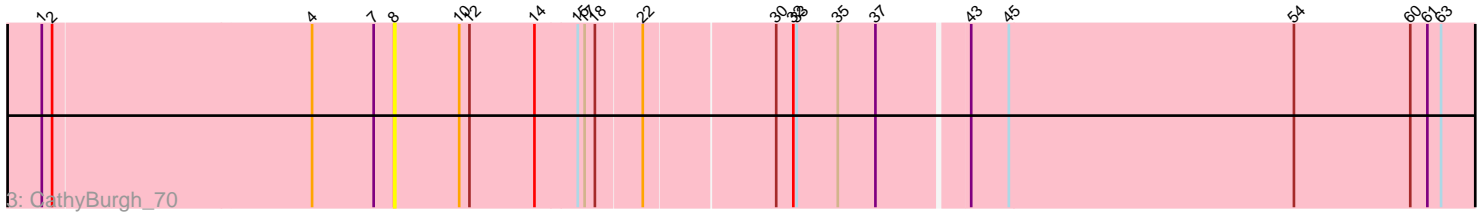
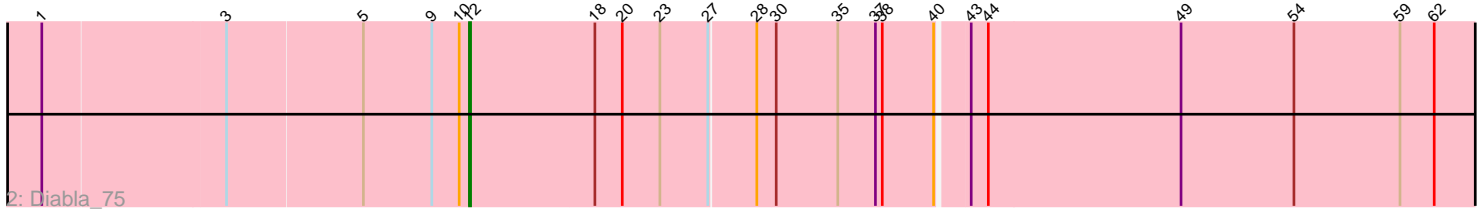
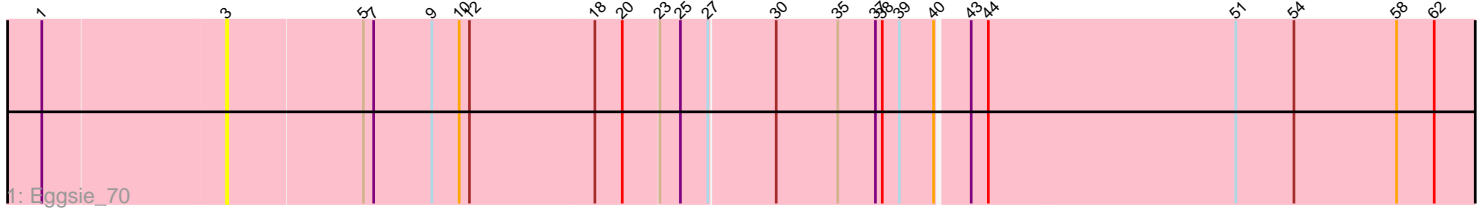


# Pham 194255



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 194255 Report

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

Pham number 194255 has 28 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Eggsie\_70
- Track 2 : Diabla\_75
- Track 3 : CathyBurgh\_70
- Track 4 : 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 5 : Jams\_68, Harambe\_68
- Track 6 : Woes\_68
- Track 7 : 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 12, it was called in 25 of the 25 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:

- CathyBurgh\_70, Eggsie\_70,

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

- 

### **Summary by start number:**

Start 3:

- Found in 2 of 28 ( 7.1% ) of genes in pham
- No Manual Annotations of this start.

- Called 50.0% of time when present
- Phage (with cluster) where this start called: Eggsie\_70 (CS2),

Start 8:

- 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: CathyBurgh\_70 (CS2),

Start 12:

- Found in 28 of 28 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 25 of 25
- Called 92.9% 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 12 was manually annotated 1 time for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 12 was manually annotated 24 times for cluster CS3.

### Gene Information:

Gene: Anamika\_68 Start: 58220, Stop: 57327, Start Num: 12

Candidate Starts for Anamika\_68:

(6, 58304), (7, 58301), (11, 58226), (Start: 12 @58220 has 25 MA's), (13, 58214), (16, 58127), (19, 58109), (21, 58076), (24, 58052), (26, 58028), (29, 57965), (31, 57950), (32, 57941), (34, 57926), (36, 57887), (42, 57791), (46, 57719), (47, 57662), (48, 57653), (49, 57602), (50, 57599), (52, 57533), (53, 57521), (55, 57494), (56, 57455), (57, 57431),

Gene: Berries\_68 Start: 58192, Stop: 57299, Start Num: 12

Candidate Starts for Berries\_68:

(6, 58276), (7, 58273), (11, 58198), (Start: 12 @58192 has 25 MA's), (13, 58186), (16, 58099), (19, 58081), (21, 58048), (24, 58024), (26, 58000), (29, 57937), (31, 57922), (32, 57913), (34, 57898), (36, 57859), (42, 57763), (46, 57691), (47, 57634), (48, 57625), (49, 57574), (50, 57571), (52, 57505), (53, 57493), (55, 57466), (56, 57427), (57, 57403),

Gene: Bianmat\_68 Start: 58232, Stop: 57339, Start Num: 12

Candidate Starts for Bianmat\_68:

(6, 58316), (7, 58313), (11, 58238), (Start: 12 @58232 has 25 MA's), (13, 58226), (16, 58139), (19, 58121), (21, 58088), (24, 58064), (26, 58040), (29, 57977), (31, 57962), (32, 57953), (34, 57938), (36,

57899), (42, 57803), (46, 57731), (47, 57674), (48, 57665), (49, 57614), (50, 57611), (52, 57545), (53, 57533), (55, 57506), (56, 57467), (57, 57443),

Gene: CathyBurgh\_70 Start: 58157, Stop: 57219, Start Num: 8

Candidate Starts for CathyBurgh\_70:

(1, 58460), (2, 58451), (4, 58229), (7, 58175), (8, 58157), (10, 58100), (Start: 12 @58091 has 25 MA's), (14, 58034), (15, 57998), (17, 57992), (18, 57983), (22, 57944), (30, 57836), (32, 57821), (33, 57818), (35, 57782), (37, 57749), (43, 57674), (45, 57641), (54, 57392), (60, 57290), (61, 57275), (63, 57263),

Gene: Charianelly\_68 Start: 57942, Stop: 57049, Start Num: 12

Candidate Starts for Charianelly\_68:

(6, 58026), (7, 58023), (11, 57948), (Start: 12 @57942 has 25 MA's), (13, 57936), (16, 57849), (19, 57831), (21, 57798), (24, 57774), (26, 57750), (29, 57687), (31, 57672), (32, 57663), (34, 57648), (36, 57609), (42, 57513), (46, 57441), (47, 57384), (48, 57375), (49, 57324), (50, 57321), (52, 57255), (53, 57243), (55, 57216), (56, 57177), (57, 57153),

Gene: Damp\_68 Start: 57106, Stop: 56213, Start Num: 12

Candidate Starts for Damp\_68:

(6, 57190), (7, 57187), (11, 57112), (Start: 12 @57106 has 25 MA's), (13, 57100), (16, 57013), (19, 56995), (21, 56962), (24, 56938), (26, 56914), (29, 56851), (31, 56836), (32, 56827), (34, 56812), (36, 56773), (42, 56677), (46, 56605), (47, 56548), (48, 56539), (49, 56488), (50, 56485), (52, 56419), (53, 56407), (55, 56380), (56, 56341), (57, 56317),

Gene: Diabla\_75 Start: 59496, Stop: 58618, Start Num: 12

Candidate Starts for Diabla\_75:

(1, 59862), (3, 59706), (5, 59589), (9, 59529), (10, 59505), (Start: 12 @59496 has 25 MA's), (18, 59388), (20, 59364), (23, 59331), (27, 59289), (28, 59250), (30, 59235), (35, 59181), (37, 59148), (38, 59142), (40, 59097), (43, 59073), (44, 59058), (49, 58890), (54, 58791), (59, 58698), (62, 58668),

Gene: Eggsie\_70 Start: 57507, Stop: 56422, Start Num: 3

Candidate Starts for Eggsie\_70:

(1, 57663), (3, 57507), (5, 57390), (7, 57381), (9, 57330), (10, 57306), (Start: 12 @57297 has 25 MA's), (18, 57189), (20, 57165), (23, 57135), (25, 57117), (27, 57093), (30, 57039), (35, 56985), (37, 56952), (38, 56946), (39, 56931), (40, 56901), (43, 56877), (44, 56862), (51, 56646), (54, 56595), (58, 56505), (62, 56472),

Gene: GalacticEye\_68 Start: 57903, Stop: 57010, Start Num: 12

Candidate Starts for GalacticEye\_68:

(6, 57987), (7, 57984), (11, 57909), (Start: 12 @57903 has 25 MA's), (13, 57897), (16, 57810), (19, 57792), (21, 57759), (24, 57735), (26, 57711), (29, 57648), (31, 57633), (32, 57624), (34, 57609), (36, 57570), (42, 57474), (46, 57402), (47, 57345), (48, 57336), (49, 57285), (50, 57282), (52, 57216), (53, 57204), (55, 57177), (56, 57138), (57, 57114),

Gene: Guillaume\_68 Start: 57953, Stop: 57060, Start Num: 12

Candidate Starts for Guillaume\_68:

(6, 58037), (7, 58034), (11, 57959), (Start: 12 @57953 has 25 MA's), (13, 57947), (16, 57860), (19, 57842), (21, 57809), (24, 57785), (26, 57761), (29, 57698), (31, 57683), (32, 57674), (34, 57659), (36, 57620), (42, 57524), (46, 57452), (47, 57395), (48, 57386), (49, 57335), (50, 57332), (52, 57266), (53, 57254), (55, 57227), (56, 57188), (57, 57164),

Gene: Hail2Pitt\_67 Start: 58429, Stop: 57536, Start Num: 12

Candidate Starts for Hail2Pitt\_67:

(6, 58513), (7, 58510), (11, 58435), (Start: 12 @58429 has 25 MA's), (13, 58423), (16, 58336), (19, 58318), (21, 58285), (24, 58261), (26, 58237), (29, 58174), (31, 58159), (32, 58150), (34, 58135), (36, 58096), (42, 58000), (46, 57928), (47, 57871), (48, 57862), (49, 57811), (50, 57808), (52, 57742), (53, 57730), (55, 57703), (56, 57664), (57, 57640),

Gene: Harambe\_68 Start: 58220, Stop: 57327, Start Num: 12

Candidate Starts for Harambe\_68:

(6, 58304), (7, 58301), (11, 58226), (Start: 12 @58220 has 25 MA's), (13, 58214), (16, 58127), (19, 58109), (21, 58076), (24, 58052), (26, 58028), (29, 57965), (31, 57950), (32, 57941), (34, 57926), (36, 57887), (42, 57791), (46, 57719), (47, 57662), (48, 57653), (49, 57602), (50, 57599), (52, 57533), (53, 57521), (55, 57494), (56, 57455),

Gene: Hello\_68 Start: 58182, Stop: 57289, Start Num: 12

Candidate Starts for Hello\_68:

(6, 58266), (7, 58263), (11, 58188), (Start: 12 @58182 has 25 MA's), (13, 58176), (16, 58089), (19, 58071), (21, 58038), (24, 58014), (26, 57990), (29, 57927), (31, 57912), (32, 57903), (34, 57888), (36, 57849), (42, 57753), (46, 57681), (47, 57624), (48, 57615), (49, 57564), (50, 57561), (52, 57495), (53, 57483), (55, 57456), (56, 57417), (57, 57393),

Gene: Jams\_68 Start: 57392, Stop: 56499, Start Num: 12

Candidate Starts for Jams\_68:

(6, 57476), (7, 57473), (11, 57398), (Start: 12 @57392 has 25 MA's), (13, 57386), (16, 57299), (19, 57281), (21, 57248), (24, 57224), (26, 57200), (29, 57137), (31, 57122), (32, 57113), (34, 57098), (36, 57059), (42, 56963), (46, 56891), (47, 56834), (48, 56825), (49, 56774), (50, 56771), (52, 56705), (53, 56693), (55, 56666), (56, 56627),

Gene: Jormungandr\_68 Start: 57935, Stop: 57042, Start Num: 12

Candidate Starts for Jormungandr\_68:

(6, 58019), (7, 58016), (11, 57941), (Start: 12 @57935 has 25 MA's), (13, 57929), (16, 57842), (19, 57824), (21, 57791), (24, 57767), (26, 57743), (29, 57680), (31, 57665), (32, 57656), (34, 57641), (36, 57602), (42, 57506), (46, 57434), (47, 57377), (48, 57368), (49, 57317), (50, 57314), (52, 57248), (53, 57236), (55, 57209), (56, 57170), (57, 57146),

Gene: Kaseim\_68 Start: 57377, Stop: 56484, Start Num: 12

Candidate Starts for Kaseim\_68:

(6, 57461), (7, 57458), (11, 57383), (Start: 12 @57377 has 25 MA's), (13, 57371), (16, 57284), (19, 57266), (21, 57233), (24, 57209), (26, 57185), (29, 57122), (31, 57107), (32, 57098), (34, 57083), (36, 57044), (42, 56948), (46, 56876), (47, 56819), (48, 56810), (49, 56759), (50, 56756), (52, 56690), (53, 56678), (55, 56651), (56, 56612), (57, 56588),

Gene: Lahirium\_68 Start: 58457, Stop: 57564, Start Num: 12

Candidate Starts for Lahirium\_68:

(6, 58541), (7, 58538), (11, 58463), (Start: 12 @58457 has 25 MA's), (13, 58451), (16, 58364), (19, 58346), (21, 58313), (24, 58289), (26, 58265), (29, 58202), (31, 58187), (32, 58178), (34, 58163), (36, 58124), (42, 58028), (46, 57956), (47, 57899), (48, 57890), (49, 57839), (50, 57836), (52, 57770), (53, 57758), (55, 57731), (56, 57692), (57, 57668),

Gene: Lidong\_68 Start: 58192, Stop: 57299, Start Num: 12

Candidate Starts for Lidong\_68:

(6, 58276), (7, 58273), (11, 58198), (Start: 12 @58192 has 25 MA's), (13, 58186), (16, 58099), (19, 58081), (21, 58048), (24, 58024), (26, 58000), (29, 57937), (31, 57922), (32, 57913), (34, 57898), (36, 57859), (42, 57763), (46, 57691), (47, 57634), (48, 57625), (49, 57574), (50, 57571), (52, 57505), (53, 57493), (55, 57466), (56, 57427), (57, 57403),

Gene: Luker\_69 Start: 58410, Stop: 57517, Start Num: 12

Candidate Starts for Luker\_69:

(6, 58494), (7, 58491), (11, 58416), (Start: 12 @58410 has 25 MA's), (13, 58404), (16, 58317), (19, 58299), (21, 58266), (24, 58242), (26, 58218), (29, 58155), (31, 58140), (32, 58131), (34, 58116), (36, 58077), (41, 57996), (42, 57981), (46, 57909), (47, 57852), (48, 57843), (49, 57792), (50, 57789), (52, 57723), (53, 57711), (55, 57684), (56, 57645), (57, 57621),

Gene: Minos\_69 Start: 57934, Stop: 57041, Start Num: 12

Candidate Starts for Minos\_69:

(6, 58018), (7, 58015), (11, 57940), (Start: 12 @57934 has 25 MA's), (13, 57928), (16, 57841), (19, 57823), (21, 57790), (24, 57766), (26, 57742), (29, 57679), (31, 57664), (32, 57655), (34, 57640), (36, 57601), (42, 57505), (46, 57433), (47, 57376), (48, 57367), (49, 57316), (50, 57313), (52, 57247), (53, 57235), (55, 57208), (56, 57169), (57, 57145),

Gene: MrWormie\_68 Start: 57095, Stop: 56202, Start Num: 12

Candidate Starts for MrWormie\_68:

(6, 57179), (7, 57176), (11, 57101), (Start: 12 @57095 has 25 MA's), (13, 57089), (16, 57002), (19, 56984), (21, 56951), (24, 56927), (26, 56903), (29, 56840), (31, 56825), (32, 56816), (34, 56801), (36, 56762), (42, 56666), (46, 56594), (47, 56537), (48, 56528), (49, 56477), (50, 56474), (52, 56408), (53, 56396), (55, 56369), (56, 56330), (57, 56306),

Gene: Neoevie\_68 Start: 58196, Stop: 57303, Start Num: 12

Candidate Starts for Neoevie\_68:

(6, 58280), (7, 58277), (11, 58202), (Start: 12 @58196 has 25 MA's), (13, 58190), (16, 58103), (19, 58085), (21, 58052), (24, 58028), (26, 58004), (29, 57941), (31, 57926), (32, 57917), (34, 57902), (36, 57863), (42, 57767), (46, 57695), (47, 57638), (48, 57629), (49, 57578), (50, 57575), (52, 57509), (53, 57497), (55, 57470), (56, 57431), (57, 57407),

Gene: Newt\_69 Start: 58424, Stop: 57531, Start Num: 12

Candidate Starts for Newt\_69:

(6, 58508), (7, 58505), (11, 58430), (Start: 12 @58424 has 25 MA's), (13, 58418), (16, 58331), (19, 58313), (21, 58280), (24, 58256), (26, 58232), (29, 58169), (31, 58154), (32, 58145), (34, 58130), (36, 58091), (42, 57995), (46, 57923), (47, 57866), (48, 57857), (49, 57806), (50, 57803), (52, 57737), (53, 57725), (55, 57698), (56, 57659), (57, 57635),

Gene: Nimi13\_68 Start: 57943, Stop: 57050, Start Num: 12

Candidate Starts for Nimi13\_68:

(6, 58027), (7, 58024), (11, 57949), (Start: 12 @57943 has 25 MA's), (13, 57937), (16, 57850), (19, 57832), (21, 57799), (24, 57775), (26, 57751), (29, 57688), (31, 57673), (32, 57664), (34, 57649), (36, 57610), (42, 57514), (46, 57442), (47, 57385), (48, 57376), (49, 57325), (50, 57322), (52, 57256), (53, 57244), (55, 57217), (56, 57178), (57, 57154),

Gene: Shelley\_68 Start: 57419, Stop: 56526, Start Num: 12

Candidate Starts for Shelley\_68:

(6, 57503), (7, 57500), (11, 57425), (Start: 12 @57419 has 25 MA's), (13, 57413), (16, 57326), (19, 57308), (21, 57275), (24, 57251), (26, 57227), (29, 57164), (31, 57149), (32, 57140), (34, 57125), (36, 57086), (42, 56990), (46, 56918), (47, 56861), (48, 56852), (49, 56801), (50, 56798), (52, 56732), (53, 56720), (55, 56693), (56, 56654), (57, 56630),

Gene: Sticker17\_68 Start: 57907, Stop: 57014, Start Num: 12

Candidate Starts for Sticker17\_68:

(6, 57991), (7, 57988), (11, 57913), (Start: 12 @57907 has 25 MA's), (13, 57901), (16, 57814), (19, 57796), (21, 57763), (24, 57739), (26, 57715), (29, 57652), (31, 57637), (32, 57628), (34, 57613), (36, 57574), (42, 57478), (46, 57406), (47, 57349), (48, 57340), (49, 57289), (50, 57286), (52, 57220), (53, 57208), (55, 57181), (56, 57142), (57, 57118),

Gene: Teal\_68 Start: 58401, Stop: 57508, Start Num: 12

Candidate Starts for Teal\_68:

(6, 58485), (7, 58482), (11, 58407), (Start: 12 @58401 has 25 MA's), (13, 58395), (16, 58308), (19, 58290), (21, 58257), (24, 58233), (26, 58209), (29, 58146), (31, 58131), (32, 58122), (34, 58107), (36, 58068), (42, 57972), (46, 57900), (47, 57843), (48, 57834), (49, 57783), (50, 57780), (52, 57714), (53, 57702), (55, 57675), (56, 57636), (57, 57612),

Gene: Woes\_68 Start: 58452, Stop: 57559, Start Num: 12

Candidate Starts for Woes\_68:

(6, 58536), (7, 58533), (11, 58458), (Start: 12 @58452 has 25 MA's), (13, 58446), (16, 58359), (19, 58341), (21, 58308), (24, 58284), (26, 58260), (29, 58197), (32, 58173), (34, 58158), (36, 58119), (42, 58023), (46, 57951), (47, 57894), (48, 57885), (49, 57834), (50, 57831), (52, 57765), (53, 57753), (55, 57726), (56, 57687), (57, 57663),