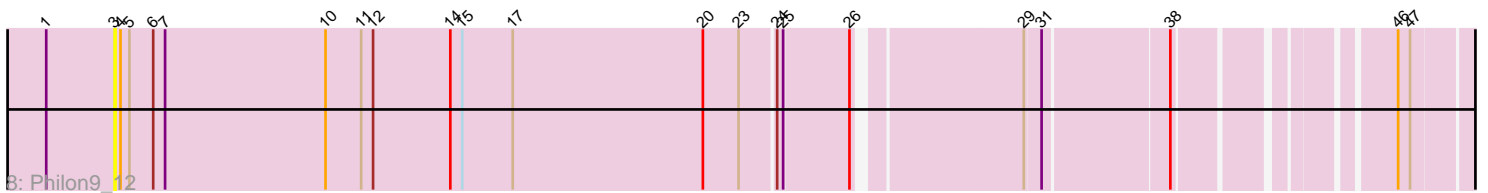
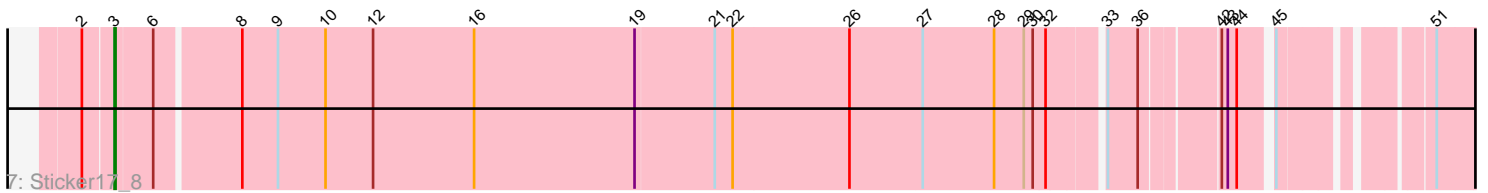
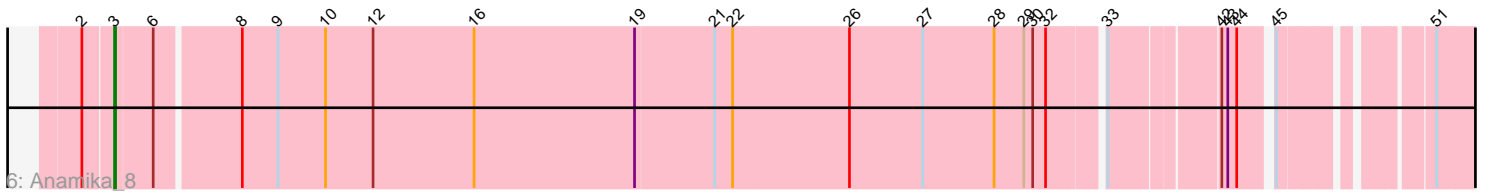
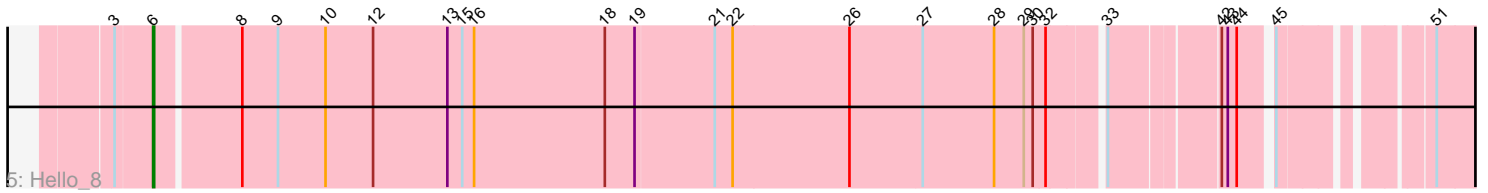
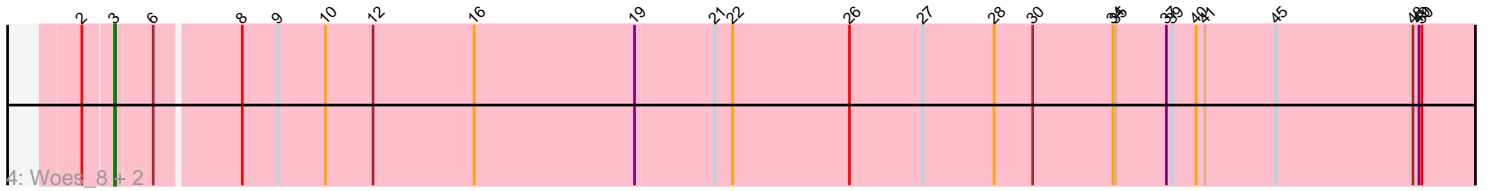
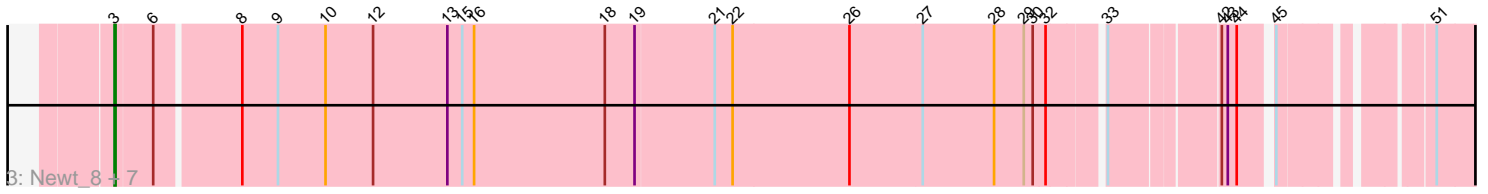
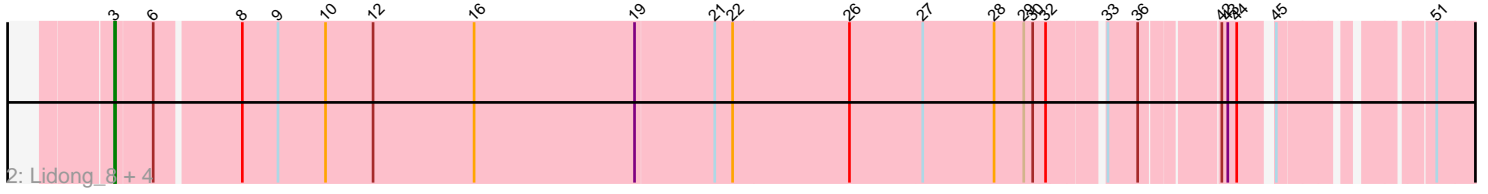
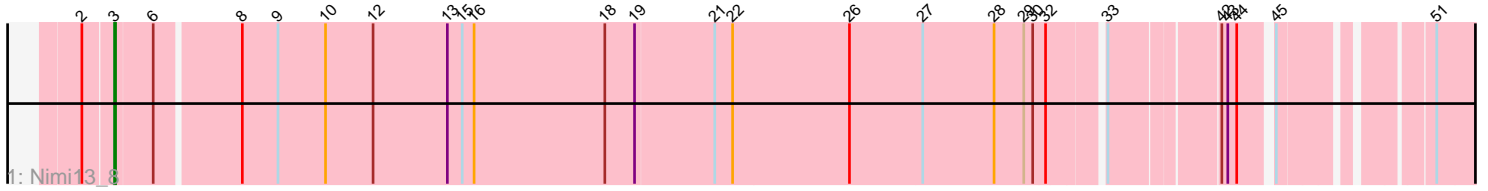


# Zoomed Pham 188439



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 188439 Report

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

Pham number 188439 has 21 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Nimi13\_8
- Track 2 : Lidong\_8, Minos\_8, GalacticEye\_8, Charianelly\_8, Berries\_8
- Track 3 : Newt\_8, Jormungandr\_8, Guillaume\_8, Harambe\_8, Neoevie\_8, Bianmat\_8, Luker\_8, Teal\_8
- Track 4 : Woes\_8, Hail2Pitt\_8, Lahirium\_8
- Track 5 : Hello\_8
- Track 6 : Anamika\_8
- Track 7 : Sticker17\_8
- Track 8 : Philon9\_12

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

The start number called the most often in the published annotations is 3, it was called in 19 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anamika\_8, Berries\_8, Bianmat\_8, Charianelly\_8, GalacticEye\_8, Guillaume\_8, Hail2Pitt\_8, Harambe\_8, Jormungandr\_8, Lahirium\_8, Lidong\_8, Luker\_8, Minos\_8, Neoevie\_8, Newt\_8, Nimi13\_8, Philon9\_12, Sticker17\_8, Teal\_8, Woes\_8,

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

- Hello\_8,

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

- 

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

Start 3:

- Found in 21 of 21 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 19 of 20
- Called 95.2% of time when present
- Phage (with cluster) where this start called: Anamika\_8 (CS3), Berries\_8 (CS3), Bianmat\_8 (CS3), Charianelly\_8 (CS3), GalacticEye\_8 (CS3), Guillaume\_8 (CS3),

Hail2Pitt\_8 (CS3), Harambe\_8 (CS3), Jormungandr\_8 (CS3), Lahirium\_8 (CS3), Lidong\_8 (CS3), Luker\_8 (CS3), Minos\_8 (CS3), Neoevie\_8 (CS3), Newt\_8 (CS3), Nimi13\_8 (CS3), Philon9\_12 (CS4), Sticker17\_8 (CS3), Teal\_8 (CS3), Woes\_8 (CS3),

Start 6:

- Found in 21 of 21 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 4.8% of time when present
- Phage (with cluster) where this start called: Hello\_8 (CS3),

### **Summary by clusters:**

There are 2 clusters represented in this pham: CS4, CS3,

Info for manual annotations of cluster CS3:

- Start number 3 was manually annotated 19 times for cluster CS3.
- Start number 6 was manually annotated 1 time for cluster CS3.

### **Gene Information:**

Gene: Anamika\_8 Start: 8400, Stop: 10952, Start Num: 3

Candidate Starts for Anamika\_8:

(2, 8373), (Start: 3 @8400 has 19 MA's), (Start: 6 @8436 has 1 MA's), (8, 8517), (9, 8553), (10, 8601), (12, 8649), (16, 8751), (19, 8913), (21, 8991), (22, 9009), (26, 9126), (27, 9198), (28, 9270), (29, 9300), (30, 9309), (32, 9321), (33, 9369), (42, 9468), (43, 9474), (44, 9483), (45, 9510), (51, 9633), (52, 9690), (53, 9693), (54, 9705), (56, 9726), (62, 9900), (66, 9945), (69, 9978), (70, 9996), (71, 10035), (81, 10188), (87, 10290), (88, 10302), (89, 10314), (90, 10350), (93, 10452), (96, 10632), (97, 10728), (98, 10767), (99, 10788), (100, 10797), (101, 10821), (102, 10836), (103, 10845), (105, 10866),

Gene: Berries\_8 Start: 8384, Stop: 10936, Start Num: 3

Candidate Starts for Berries\_8:

(Start: 3 @8384 has 19 MA's), (Start: 6 @8420 has 1 MA's), (8, 8501), (9, 8537), (10, 8585), (12, 8633), (16, 8735), (19, 8897), (21, 8975), (22, 8993), (26, 9110), (27, 9182), (28, 9254), (29, 9284), (30, 9293), (32, 9305), (33, 9353), (36, 9383), (42, 9452), (43, 9458), (44, 9467), (45, 9494), (51, 9617), (52, 9674), (53, 9677), (54, 9689), (56, 9710), (62, 9884), (66, 9929), (69, 9962), (70, 9980), (71, 10019), (81, 10172), (87, 10274), (88, 10286), (89, 10298), (90, 10334), (93, 10436), (96, 10616), (97, 10712), (98, 10751), (99, 10772), (100, 10781), (101, 10805), (102, 10820), (103, 10829), (105, 10850),

Gene: Bianmat\_8 Start: 8407, Stop: 10959, Start Num: 3

Candidate Starts for Bianmat\_8:

(Start: 3 @8407 has 19 MA's), (Start: 6 @8443 has 1 MA's), (8, 8524), (9, 8560), (10, 8608), (12, 8656), (13, 8731), (15, 8746), (16, 8758), (18, 8890), (19, 8920), (21, 8998), (22, 9016), (26, 9133), (27, 9205), (28, 9277), (29, 9307), (30, 9316), (32, 9328), (33, 9376), (42, 9475), (43, 9481), (44, 9490), (45, 9517), (51, 9640), (52, 9697), (53, 9700), (54, 9712), (56, 9733), (62, 9907), (66, 9952), (69, 9985), (70, 10003), (71, 10042), (81, 10195), (87, 10297), (88, 10309), (89, 10321), (90, 10357), (93, 10459), (96, 10639), (97, 10735), (98, 10774), (99, 10795), (100, 10804), (101, 10828), (102, 10843), (103, 10852), (105, 10873),

Gene: Charianelly\_8 Start: 8395, Stop: 10947, Start Num: 3

Candidate Starts for Charianelly\_8:

(Start: 3 @8395 has 19 MA's), (Start: 6 @8431 has 1 MA's), (8, 8512), (9, 8548), (10, 8596), (12, 8644), (16, 8746), (19, 8908), (21, 8986), (22, 9004), (26, 9121), (27, 9193), (28, 9265), (29, 9295), (30, 9304), (32, 9316), (33, 9364), (36, 9394), (42, 9463), (43, 9469), (44, 9478), (45, 9505), (51, 9628), (52, 9685), (53, 9688), (54, 9700), (56, 9721), (62, 9895), (66, 9940), (69, 9973), (70, 9991), (71, 10030), (81, 10183), (87, 10285), (88, 10297), (89, 10309), (90, 10345), (93, 10447), (96, 10627), (97, 10723), (98, 10762), (99, 10783), (100, 10792), (101, 10816), (102, 10831), (103, 10840), (105, 10861),

Gene: GalacticEye\_8 Start: 8384, Stop: 10936, Start Num: 3

Candidate Starts for GalacticEye\_8:

(Start: 3 @8384 has 19 MA's), (Start: 6 @8420 has 1 MA's), (8, 8501), (9, 8537), (10, 8585), (12, 8633), (16, 8735), (19, 8897), (21, 8975), (22, 8993), (26, 9110), (27, 9182), (28, 9254), (29, 9284), (30, 9293), (32, 9305), (33, 9353), (36, 9383), (42, 9452), (43, 9458), (44, 9467), (45, 9494), (51, 9617), (52, 9674), (53, 9677), (54, 9689), (56, 9710), (62, 9884), (66, 9929), (69, 9962), (70, 9980), (71, 10019), (81, 10172), (87, 10274), (88, 10286), (89, 10298), (90, 10334), (93, 10436), (96, 10616), (97, 10712), (98, 10751), (99, 10772), (100, 10781), (101, 10805), (102, 10820), (103, 10829), (105, 10850),

Gene: Guillaume\_8 Start: 8395, Stop: 10947, Start Num: 3

Candidate Starts for Guillaume\_8:

(Start: 3 @8395 has 19 MA's), (Start: 6 @8431 has 1 MA's), (8, 8512), (9, 8548), (10, 8596), (12, 8644), (13, 8719), (15, 8734), (16, 8746), (18, 8878), (19, 8908), (21, 8986), (22, 9004), (26, 9121), (27, 9193), (28, 9265), (29, 9295), (30, 9304), (32, 9316), (33, 9364), (42, 9463), (43, 9469), (44, 9478), (45, 9505), (51, 9628), (52, 9685), (53, 9688), (54, 9700), (56, 9721), (62, 9895), (66, 9940), (69, 9973), (70, 9991), (71, 10030), (81, 10183), (87, 10285), (88, 10297), (89, 10309), (90, 10345), (93, 10447), (96, 10627), (97, 10723), (98, 10762), (99, 10783), (100, 10792), (101, 10816), (102, 10831), (103, 10840), (105, 10861),

Gene: Hail2Pitt\_8 Start: 8378, Stop: 11167, Start Num: 3

Candidate Starts for Hail2Pitt\_8:

(2, 8351), (Start: 3 @8378 has 19 MA's), (Start: 6 @8414 has 1 MA's), (8, 8495), (9, 8531), (10, 8579), (12, 8627), (16, 8729), (19, 8891), (21, 8969), (22, 8987), (26, 9104), (27, 9176), (28, 9248), (30, 9287), (34, 9368), (35, 9371), (37, 9422), (39, 9428), (40, 9452), (41, 9461), (45, 9533), (48, 9668), (49, 9674), (50, 9677), (52, 9758), (58, 9914), (59, 9935), (60, 9953), (64, 10019), (66, 10043), (68, 10061), (72, 10175), (74, 10184), (82, 10337), (83, 10361), (84, 10409), (86, 10493), (87, 10505), (88, 10517), (89, 10529), (90, 10565), (93, 10667), (96, 10847), (97, 10943), (98, 10982), (99, 11003), (100, 11012), (101, 11036), (102, 11051), (103, 11060), (105, 11081),

Gene: Harambe\_8 Start: 8399, Stop: 10951, Start Num: 3

Candidate Starts for Harambe\_8:

(Start: 3 @8399 has 19 MA's), (Start: 6 @8435 has 1 MA's), (8, 8516), (9, 8552), (10, 8600), (12, 8648), (13, 8723), (15, 8738), (16, 8750), (18, 8882), (19, 8912), (21, 8990), (22, 9008), (26, 9125), (27, 9197), (28, 9269), (29, 9299), (30, 9308), (32, 9320), (33, 9368), (42, 9467), (43, 9473), (44, 9482), (45, 9509), (51, 9632), (52, 9689), (53, 9692), (54, 9704), (56, 9725), (62, 9899), (66, 9944), (69, 9977), (70, 9995), (71, 10034), (81, 10187), (87, 10289), (88, 10301), (89, 10313), (90, 10349), (93, 10451), (96, 10631), (97, 10727), (98, 10766), (99, 10787), (100, 10796), (101, 10820), (102, 10835), (103, 10844), (105, 10865),

Gene: Hello\_8 Start: 8421, Stop: 10937, Start Num: 6

Candidate Starts for Hello\_8:

(Start: 3 @8385 has 19 MA's), (Start: 6 @8421 has 1 MA's), (8, 8502), (9, 8538), (10, 8586), (12, 8634), (13, 8709), (15, 8724), (16, 8736), (18, 8868), (19, 8898), (21, 8976), (22, 8994), (26, 9111), (27, 9183), (28, 9255), (29, 9285), (30, 9294), (32, 9306), (33, 9354), (42, 9453), (43, 9459), (44, 9468), (45, 9495), (51, 9618), (52, 9675), (53, 9678), (54, 9690), (56, 9711), (62, 9885), (66, 9930), (69, 9963), (70, 9981), (71, 10020), (81, 10173), (87, 10275), (88, 10287), (89, 10299), (90, 10335), (93, 10437), (96, 10617), (97, 10713), (98, 10752), (99, 10773), (100, 10782), (101, 10806), (102, 10821), (103, 10830), (105, 10851),

Gene: Jormungandr\_8 Start: 8398, Stop: 10950, Start Num: 3

Candidate Starts for Jormungandr\_8:

(Start: 3 @8398 has 19 MA's), (Start: 6 @8434 has 1 MA's), (8, 8515), (9, 8551), (10, 8599), (12, 8647), (13, 8722), (15, 8737), (16, 8749), (18, 8881), (19, 8911), (21, 8989), (22, 9007), (26, 9124), (27, 9196), (28, 9268), (29, 9298), (30, 9307), (32, 9319), (33, 9367), (42, 9466), (43, 9472), (44, 9481), (45, 9508), (51, 9631), (52, 9688), (53, 9691), (54, 9703), (56, 9724), (62, 9898), (66, 9943), (69, 9976), (70, 9994), (71, 10033), (81, 10186), (87, 10288), (88, 10300), (89, 10312), (90, 10348), (93, 10450), (96, 10630), (97, 10726), (98, 10765), (99, 10786), (100, 10795), (101, 10819), (102, 10834), (103, 10843), (105, 10864),

Gene: Lahirium\_8 Start: 8399, Stop: 11188, Start Num: 3

Candidate Starts for Lahirium\_8:

(2, 8372), (Start: 3 @8399 has 19 MA's), (Start: 6 @8435 has 1 MA's), (8, 8516), (9, 8552), (10, 8600), (12, 8648), (16, 8750), (19, 8912), (21, 8990), (22, 9008), (26, 9125), (27, 9197), (28, 9269), (30, 9308), (34, 9389), (35, 9392), (37, 9443), (39, 9449), (40, 9473), (41, 9482), (45, 9554), (48, 9689), (49, 9695), (50, 9698), (52, 9779), (58, 9935), (59, 9956), (60, 9974), (64, 10040), (66, 10064), (68, 10082), (72, 10196), (74, 10205), (82, 10358), (83, 10382), (84, 10430), (86, 10514), (87, 10526), (88, 10538), (89, 10550), (90, 10586), (93, 10688), (96, 10868), (97, 10964), (98, 11003), (99, 11024), (100, 11033), (101, 11057), (102, 11072), (103, 11081), (105, 11102),

Gene: Lidong\_8 Start: 8384, Stop: 10936, Start Num: 3

Candidate Starts for Lidong\_8:

(Start: 3 @8384 has 19 MA's), (Start: 6 @8420 has 1 MA's), (8, 8501), (9, 8537), (10, 8585), (12, 8633), (16, 8735), (19, 8897), (21, 8975), (22, 8993), (26, 9110), (27, 9182), (28, 9254), (29, 9284), (30, 9293), (32, 9305), (33, 9353), (36, 9383), (42, 9452), (43, 9458), (44, 9467), (45, 9494), (51, 9617), (52, 9674), (53, 9677), (54, 9689), (56, 9710), (62, 9884), (66, 9929), (69, 9962), (70, 9980), (71, 10019), (81, 10172), (87, 10274), (88, 10286), (89, 10298), (90, 10334), (93, 10436), (96, 10616), (97, 10712), (98, 10751), (99, 10772), (100, 10781), (101, 10805), (102, 10820), (103, 10829), (105, 10850),

Gene: Luker\_8 Start: 8378, Stop: 10930, Start Num: 3

Candidate Starts for Luker\_8:

(Start: 3 @8378 has 19 MA's), (Start: 6 @8414 has 1 MA's), (8, 8495), (9, 8531), (10, 8579), (12, 8627), (13, 8702), (15, 8717), (16, 8729), (18, 8861), (19, 8891), (21, 8969), (22, 8987), (26, 9104), (27, 9176), (28, 9248), (29, 9278), (30, 9287), (32, 9299), (33, 9347), (42, 9446), (43, 9452), (44, 9461), (45, 9488), (51, 9611), (52, 9668), (53, 9671), (54, 9683), (56, 9704), (62, 9878), (66, 9923), (69, 9956), (70, 9974), (71, 10013), (81, 10166), (87, 10268), (88, 10280), (89, 10292), (90, 10328), (93, 10430), (96, 10610), (97, 10706), (98, 10745), (99, 10766), (100, 10775), (101, 10799), (102, 10814), (103, 10823), (105, 10844),

Gene: Minos\_8 Start: 8384, Stop: 10936, Start Num: 3

Candidate Starts for Minos\_8:

(Start: 3 @8384 has 19 MA's), (Start: 6 @8420 has 1 MA's), (8, 8501), (9, 8537), (10, 8585), (12, 8633), (16, 8735), (19, 8897), (21, 8975), (22, 8993), (26, 9110), (27, 9182), (28, 9254), (29, 9284), (30, 9293), (32, 9305), (33, 9353), (36, 9383), (42, 9452), (43, 9458), (44, 9467), (45, 9494), (51,

9617), (52, 9674), (53, 9677), (54, 9689), (56, 9710), (62, 9884), (66, 9929), (69, 9962), (70, 9980), (71, 10019), (81, 10172), (87, 10274), (88, 10286), (89, 10298), (90, 10334), (93, 10436), (96, 10616), (97, 10712), (98, 10751), (99, 10772), (100, 10781), (101, 10805), (102, 10820), (103, 10829), (105, 10850),

Gene: Neoevie\_8 Start: 8376, Stop: 10928, Start Num: 3

Candidate Starts for Neoevie\_8:

(Start: 3 @8376 has 19 MA's), (Start: 6 @8412 has 1 MA's), (8, 8493), (9, 8529), (10, 8577), (12, 8625), (13, 8700), (15, 8715), (16, 8727), (18, 8859), (19, 8889), (21, 8967), (22, 8985), (26, 9102), (27, 9174), (28, 9246), (29, 9276), (30, 9285), (32, 9297), (33, 9345), (42, 9444), (43, 9450), (44, 9459), (45, 9486), (51, 9609), (52, 9666), (53, 9669), (54, 9681), (56, 9702), (62, 9876), (66, 9921), (69, 9954), (70, 9972), (71, 10011), (81, 10164), (87, 10266), (88, 10278), (89, 10290), (90, 10326), (93, 10428), (96, 10608), (97, 10704), (98, 10743), (99, 10764), (100, 10773), (101, 10797), (102, 10812), (103, 10821), (105, 10842),

Gene: Newt\_8 Start: 8395, Stop: 10947, Start Num: 3

Candidate Starts for Newt\_8:

(Start: 3 @8395 has 19 MA's), (Start: 6 @8431 has 1 MA's), (8, 8512), (9, 8548), (10, 8596), (12, 8644), (13, 8719), (15, 8734), (16, 8746), (18, 8878), (19, 8908), (21, 8986), (22, 9004), (26, 9121), (27, 9193), (28, 9265), (29, 9295), (30, 9304), (32, 9316), (33, 9364), (42, 9463), (43, 9469), (44, 9478), (45, 9505), (51, 9628), (52, 9685), (53, 9688), (54, 9700), (56, 9721), (62, 9895), (66, 9940), (69, 9973), (70, 9991), (71, 10030), (81, 10183), (87, 10285), (88, 10297), (89, 10309), (90, 10345), (93, 10447), (96, 10627), (97, 10723), (98, 10762), (99, 10783), (100, 10792), (101, 10816), (102, 10831), (103, 10840), (105, 10861),

Gene: Nimi13\_8 Start: 8396, Stop: 10948, Start Num: 3

Candidate Starts for Nimi13\_8:

(2, 8369), (Start: 3 @8396 has 19 MA's), (Start: 6 @8432 has 1 MA's), (8, 8513), (9, 8549), (10, 8597), (12, 8645), (13, 8720), (15, 8735), (16, 8747), (18, 8879), (19, 8909), (21, 8987), (22, 9005), (26, 9122), (27, 9194), (28, 9266), (29, 9296), (30, 9305), (32, 9317), (33, 9365), (42, 9464), (43, 9470), (44, 9479), (45, 9506), (51, 9629), (52, 9686), (53, 9689), (54, 9701), (56, 9722), (62, 9896), (66, 9941), (69, 9974), (70, 9992), (71, 10031), (81, 10184), (87, 10286), (88, 10298), (89, 10310), (90, 10346), (93, 10448), (96, 10628), (97, 10724), (98, 10763), (99, 10784), (100, 10793), (101, 10817), (102, 10832), (103, 10841), (105, 10862),

Gene: Philon9\_12 Start: 10358, Stop: 13012, Start Num: 3

Candidate Starts for Philon9\_12:

(1, 10289), (Start: 3 @10358 has 19 MA's), (4, 10364), (5, 10373), (Start: 6 @10397 has 1 MA's), (7, 10409), (10, 10571), (11, 10607), (12, 10619), (14, 10697), (15, 10709), (17, 10760), (20, 10952), (23, 10988), (24, 11021), (25, 11027), (26, 11090), (29, 11243), (31, 11258), (38, 11378), (46, 11555), (47, 11567), (55, 11675), (57, 11720), (61, 11852), (63, 11867), (65, 11885), (67, 11915), (71, 12002), (73, 12035), (75, 12056), (76, 12074), (77, 12095), (78, 12116), (79, 12119), (80, 12146), (83, 12197), (84, 12245), (85, 12275), (86, 12329), (87, 12341), (88, 12353), (90, 12401), (91, 12491), (92, 12494), (93, 12503), (94, 12524), (95, 12587), (97, 12770), (104, 12893), (106, 12944), (107, 12989),

Gene: Sticker17\_8 Start: 8395, Stop: 10947, Start Num: 3

Candidate Starts for Sticker17\_8:

(2, 8368), (Start: 3 @8395 has 19 MA's), (Start: 6 @8431 has 1 MA's), (8, 8512), (9, 8548), (10, 8596), (12, 8644), (16, 8746), (19, 8908), (21, 8986), (22, 9004), (26, 9121), (27, 9193), (28, 9265), (29, 9295), (30, 9304), (32, 9316), (33, 9364), (36, 9394), (42, 9463), (43, 9469), (44, 9478), (45, 9505), (51, 9628), (52, 9685), (53, 9688), (54, 9700), (56, 9721), (62, 9895), (66, 9940), (69, 9973), (70, 9991), (71, 10030), (81, 10183), (87, 10285), (88, 10297), (89, 10309), (90, 10345), (93, 10447), (96, 10627), (97, 10723), (98, 10762), (99, 10783), (100, 10792), (101, 10816), (102, 10831), (103, 10840),

(105, 10861),

Gene: Teal\_8 Start: 8372, Stop: 10924, Start Num: 3

Candidate Starts for Teal\_8:

(Start: 3 @8372 has 19 MA's), (Start: 6 @8408 has 1 MA's), (8, 8489), (9, 8525), (10, 8573), (12, 8621), (13, 8696), (15, 8711), (16, 8723), (18, 8855), (19, 8885), (21, 8963), (22, 8981), (26, 9098), (27, 9170), (28, 9242), (29, 9272), (30, 9281), (32, 9293), (33, 9341), (42, 9440), (43, 9446), (44, 9455), (45, 9482), (51, 9605), (52, 9662), (53, 9665), (54, 9677), (56, 9698), (62, 9872), (66, 9917), (69, 9950), (70, 9968), (71, 10007), (81, 10160), (87, 10262), (88, 10274), (89, 10286), (90, 10322), (93, 10424), (96, 10604), (97, 10700), (98, 10739), (99, 10760), (100, 10769), (101, 10793), (102, 10808), (103, 10817), (105, 10838),

Gene: Woes\_8 Start: 8408, Stop: 11197, Start Num: 3

Candidate Starts for Woes\_8:

(2, 8381), (Start: 3 @8408 has 19 MA's), (Start: 6 @8444 has 1 MA's), (8, 8525), (9, 8561), (10, 8609), (12, 8657), (16, 8759), (19, 8921), (21, 8999), (22, 9017), (26, 9134), (27, 9206), (28, 9278), (30, 9317), (34, 9398), (35, 9401), (37, 9452), (39, 9458), (40, 9482), (41, 9491), (45, 9563), (48, 9698), (49, 9704), (50, 9707), (52, 9788), (58, 9944), (59, 9965), (60, 9983), (64, 10049), (66, 10073), (68, 10091), (72, 10205), (74, 10214), (82, 10367), (83, 10391), (84, 10439), (86, 10523), (87, 10535), (88, 10547), (89, 10559), (90, 10595), (93, 10697), (96, 10877), (97, 10973), (98, 11012), (99, 11033), (100, 11042), (101, 11066), (102, 11081), (103, 11090), (105, 11111),