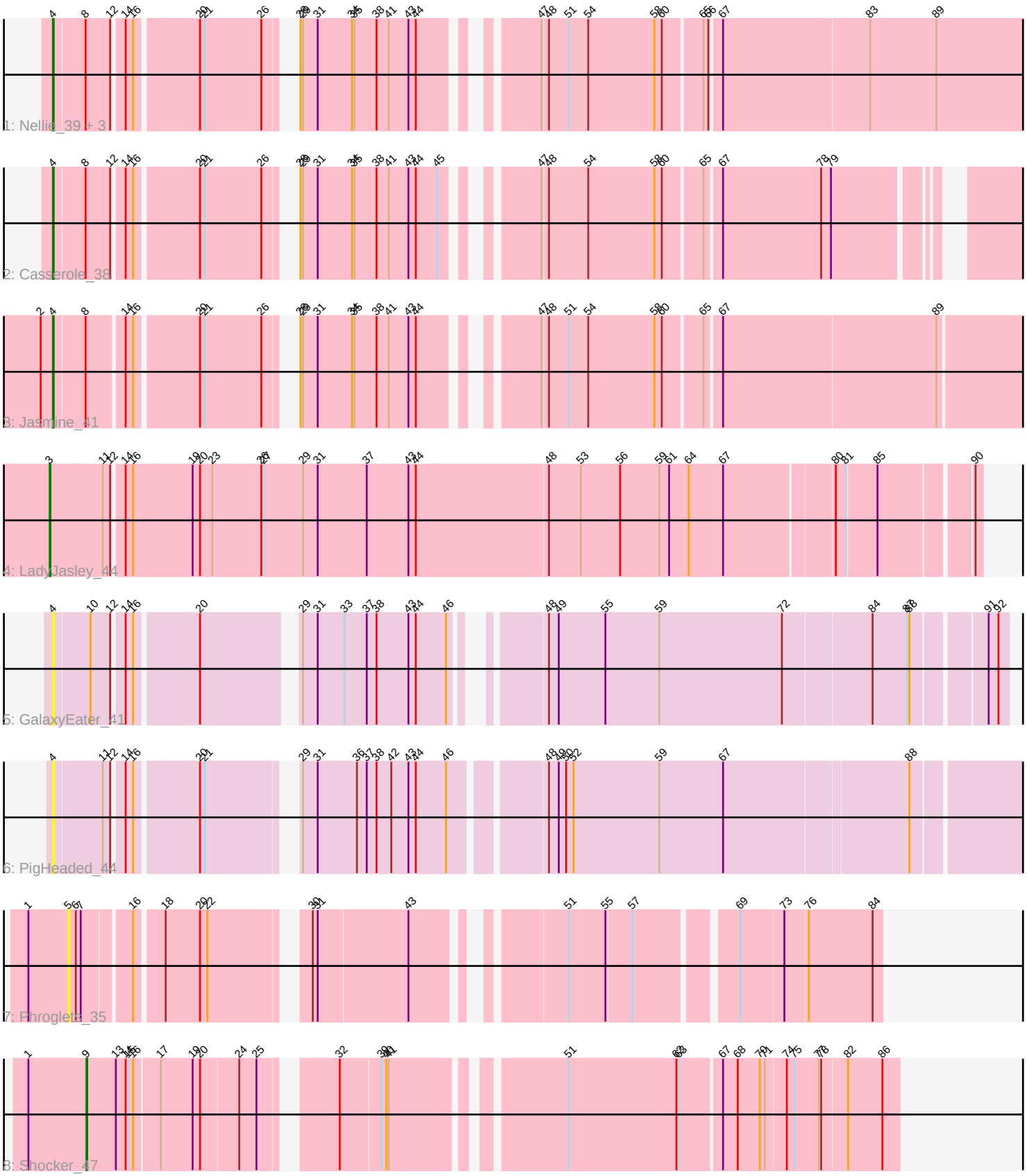
Pham 281104


1: Nellie_39 + 3
2: Casserole_38
3: Jasmine_41
4: LadyJasley_44
5: GalaxyEater_41
6: PigHeaded_44
7: Phroglets_35
8: Shocker_47

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 281104 Report

This analysis was run 02/07/26 on database version 634.

Pham number 281104 has 11 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Nellie_39, Adat_39, GurgleFerb_39, Brad_39
• Track 2 : Casserole_38
• Track 3 : Jasmine_41
• Track 4 : LadyJasley_44
• Track 5 : GalaxyEater_41
• Track 6 : PigHeaded_44
• Track 7 : Phroglets_35
• Track 8 : Shocker_47

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

The start number called the most often in the published annotations is 4, it was called in 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adat_39, Brad_39, Casserole_38, GalaxyEater_41, GurgleFerb_39, Jasmine_41, Nellie_39, PigHeaded_44,

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

Genes that do not have the "Most Annotated" start:
• LadyJasley_44, Phroglets_35, Shocker_47,

Summary by start number:

Start 3:
• Found in 1 of 11 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LadyJasley_44 (AV),

Start 4:
• Found in 8 of 11 (72.7%) of genes in pham

• Manual Annotations of this start: 6 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adat_39 (AV), Brad_39 (AV), Casserole_38 (AV), GalaxyEater_41 (UNK), GurgleFerb_39 (AV), Jasmine_41 (AV), Nellie_39 (AV), PigHeaded_44 (UNK),

Start 5:
• Found in 1 of 11 (9.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phroglets_35 (singleton),

Start 9:
• Found in 1 of 11 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shocker_47 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, UNK, AV,

Info for manual annotations of cluster AV:
•Start number 3 was manually annotated 1 time for cluster AV.
•Start number 4 was manually annotated 6 times for cluster AV.

Gene Information:

Gene: Adat_39 Start: 35564, Stop: 34482, Start Num: 4
Candidate Starts for Adat_39:
(Start: 4 @35564 has 6 MA's), (8, 35528), (12, 35498), (14, 35486), (16, 35477), (20, 35405), (21, 35399), (26, 35330), (28, 35312), (29, 35309), (31, 35291), (34, 35249), (35, 35246), (38, 35219), (41, 35204), (43, 35180), (44, 35171), (47, 35066), (48, 35060), (51, 35036), (54, 35012), (58, 34931), (60, 34922), (65, 34877), (66, 34871), (67, 34859), (83, 34682), (89, 34601),

Gene: Brad_39 Start: 35562, Stop: 34480, Start Num: 4
Candidate Starts for Brad_39:
(Start: 4 @35562 has 6 MA's), (8, 35526), (12, 35496), (14, 35484), (16, 35475), (20, 35403), (21, 35397), (26, 35328), (28, 35310), (29, 35307), (31, 35289), (34, 35247), (35, 35244), (38, 35217), (41, 35202), (43, 35178), (44, 35169), (47, 35064), (48, 35058), (51, 35034), (54, 35010), (58, 34929), (60, 34920), (65, 34875), (66, 34869), (67, 34857), (83, 34680), (89, 34599),

Gene: Casserole_38 Start: 36505, Stop: 35474, Start Num: 4
Candidate Starts for Casserole_38:
(Start: 4 @36505 has 6 MA's), (8, 36469), (12, 36439), (14, 36427), (16, 36418), (20, 36346), (21, 36340), (26, 36271), (28, 36253), (29, 36250), (31, 36232), (34, 36190), (35, 36187), (38, 36160), (41, 36145), (43, 36121), (44, 36112), (45, 36088), (47, 36007), (48, 36001), (54, 35953), (58, 35872), (60, 35863), (65, 35818), (67, 35800), (78, 35680), (79, 35668),

Gene: GalaxyEater_41 Start: 37582, Stop: 36536, Start Num: 4

Candidate Starts for GalaxyEater_41:
(Start: 4 @37582 has 6 MA's), (10, 37540), (12, 37516), (14, 37504), (16, 37495), (20, 37423), (29, 37321), (31, 37303), (33, 37270), (37, 37243), (38, 37231), (43, 37192), (44, 37183), (46, 37147), (48, 37072), (49, 37060), (55, 37003), (59, 36937), (72, 36787), (84, 36682), (87, 36640), (88, 36637), (91, 36559), (92, 36547),

Gene: GurgleFerb_39 Start: 35563, Stop: 34481, Start Num: 4
Candidate Starts for GurgleFerb_39:
(Start: 4 @35563 has 6 MA's), (8, 35527), (12, 35497), (14, 35485), (16, 35476), (20, 35404), (21, 35398), (26, 35329), (28, 35311), (29, 35308), (31, 35290), (34, 35248), (35, 35245), (38, 35218), (41, 35203), (43, 35179), (44, 35170), (47, 35065), (48, 35059), (51, 35035), (54, 35011), (58, 34930), (60, 34921), (65, 34876), (66, 34870), (67, 34858), (83, 34681), (89, 34600),

Gene: Jasmine_41 Start: 37089, Stop: 36013, Start Num: 4
Candidate Starts for Jasmine_41:
(2, 37104), (Start: 4 @37089 has 6 MA's), (8, 37053), (14, 37011), (16, 37002), (20, 36930), (21, 36924), (26, 36855), (28, 36837), (29, 36834), (31, 36816), (34, 36774), (35, 36771), (38, 36744), (41, 36729), (43, 36705), (44, 36696), (47, 36591), (48, 36585), (51, 36561), (54, 36537), (58, 36456), (60, 36447), (65, 36402), (67, 36384), (89, 36126),

Gene: LadyJasley_44 Start: 37568, Stop: 36474, Start Num: 3
Candidate Starts for LadyJasley_44:
(Start: 3 @37568 has 1 MA's), (11, 37505), (12, 37496), (14, 37484), (16, 37475), (19, 37403), (20, 37394), (23, 37379), (26, 37319), (27, 37316), (29, 37268), (31, 37250), (37, 37190), (43, 37139), (44, 37130), (48, 36971), (53, 36932), (56, 36884), (59, 36836), (61, 36824), (64, 36800), (67, 36758), (80, 36632), (81, 36620), (85, 36584), (90, 36482),

Gene: Nellie_39 Start: 35564, Stop: 34482, Start Num: 4
Candidate Starts for Nellie_39:
(Start: 4 @35564 has 6 MA's), (8, 35528), (12, 35498), (14, 35486), (16, 35477), (20, 35405), (21, 35399), (26, 35330), (28, 35312), (29, 35309), (31, 35291), (34, 35249), (35, 35246), (38, 35219), (41, 35204), (43, 35180), (44, 35171), (47, 35066), (48, 35060), (51, 35036), (54, 35012), (58, 34931), (60, 34922), (65, 34877), (66, 34871), (67, 34859), (83, 34682), (89, 34601),

Gene: Phroglets_35 Start: 35115, Stop: 34255, Start Num: 5
Candidate Starts for Phroglets_35:
(1, 35163), (5, 35115), (6, 35106), (7, 35100), (16, 35046), (18, 35016), (20, 34974), (22, 34965), (30, 34866), (31, 34860), (43, 34752), (51, 34608), (55, 34563), (57, 34533), (69, 34422), (73, 34371), (76, 34344), (84, 34266),

Gene: PigHeaded_44 Start: 36823, Stop: 35723, Start Num: 4
Candidate Starts for PigHeaded_44:
(Start: 4 @36823 has 6 MA's), (11, 36766), (12, 36757), (14, 36745), (16, 36736), (20, 36664), (21, 36658), (29, 36568), (31, 36550), (36, 36502), (37, 36490), (38, 36478), (42, 36460), (43, 36439), (44, 36430), (46, 36394), (48, 36292), (49, 36280), (50, 36271), (52, 36262), (59, 36157), (67, 36079), (88, 35860),

Gene: Shocker_47 Start: 37197, Stop: 36292, Start Num: 9
Candidate Starts for Shocker_47:
(1, 37266), (Start: 9 @37197 has 1 MA's), (13, 37161), (14, 37149), (15, 37146), (16, 37140), (17, 37110), (19, 37071), (20, 37062), (24, 37017), (25, 36996), (32, 36924), (39, 36876), (40, 36870), (41, 36867), (51, 36684), (62, 36552), (63, 36549), (67, 36501), (68, 36483), (70, 36456), (71, 36450), (74, 36426), (75, 36417), (77, 36387), (78, 36384), (82, 36354), (86, 36312),