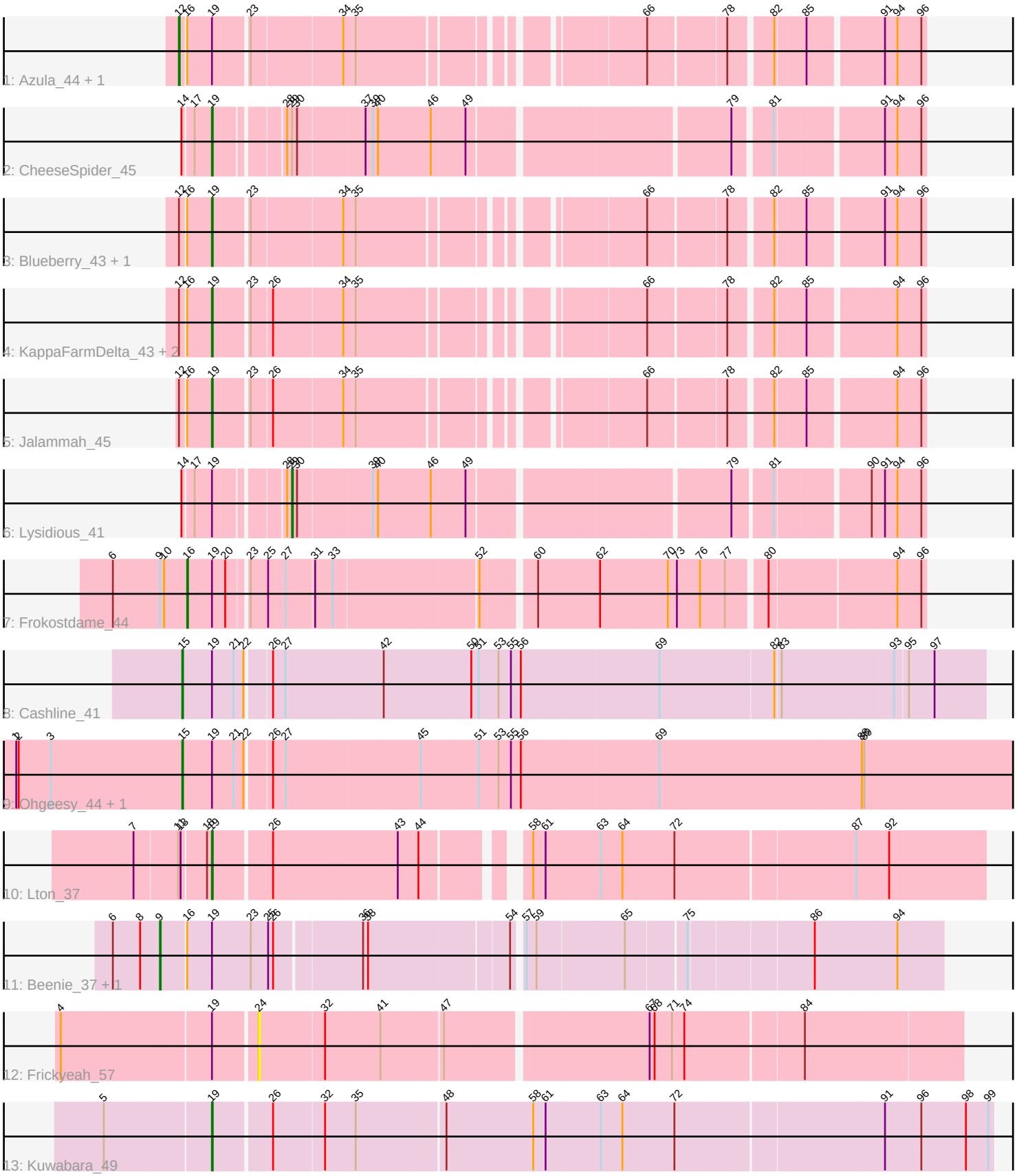
Pham 348078


1: Azula_44 + 1
2: CheeseSpider_45
3: Blueberry_43 + 1
4: KappaFarmDelta_43 + 2
5: Jalammah_45
6: Lysidious_41
7: Frokostdame_44
8: Cashline_41
9: Ohgeesy_44 + 1
10: Lton_37
11: Beenie_37 + 1
12: Frickyeah_57
13: Kuwabara_49

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 348078 Report

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

Pham number 348078 has 19 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Azula_44, Gambino_46
• Track 2 : CheeseSpider_45
• Track 3 : Blueberry_43, MissRona_44
• Track 4 : KappaFarmDelta_43, Fenry_40, Wocket_42
• Track 5 : Jalammah_45
• Track 6 : Lysidious_41
• Track 7 : Frokostdame_44
• Track 8 : Cashline_41
• Track 9 : Ohgeesy_44, Madeline_41
• Track 10 : Lton_37
• Track 11 : Beenie_37, Sekhmet_44
• Track 12 : Frickyeah_57
• Track 13 : Kuwabara_49

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

The start number called the most often in the published annotations is 19, it was called in 9 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Blueberry_43, CheeseSpider_45, Fenry_40, Jalammah_45, KappaFarmDelta_43, Kuwabara_49, Lton_37, MissRona_44, Wocket_42,

Genes that have the "Most Annotated" start but do not call it:
• Azula_44, Beenie_37, Cashline_41, Frickyeah_57, Frokostdame_44, Gambino_46, Lysidious_41, Madeline_41, Ohgeesy_44, Sekhmet_44,

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

Summary by start number:

Start 9:
• Found in 3 of 19 (15.8%) of genes in pham

• Manual Annotations of this start: 2 of 18
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Beenie_37 (CZ4), Sekhmet_44 (CZ4),

Start 12:
• Found in 8 of 19 (42.1%) of genes in pham
• Manual Annotations of this start: 2 of 18
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Azula_44 (CV), Gambino_46 (CV),

Start 15:
• Found in 3 of 19 (15.8%) of genes in pham
• Manual Annotations of this start: 3 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cashline_41 (CY6), Madeline_41 (CZ1), Ohgeesy_44 (CZ),

Start 16:
• Found in 11 of 19 (57.9%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 9.1% of time when present
• Phage (with cluster) where this start called: Frokostdame_44 (CV),

Start 19:
• Found in 19 of 19 (100.0%) of genes in pham
• Manual Annotations of this start: 9 of 18
• Called 47.4% of time when present
• Phage (with cluster) where this start called: Blueberry_43 (CV), CheeseSpider_45 (CV), Fenry_40 (CV), Jalammah_45 (CV), KappaFarmDelta_43 (CV), Kuwabara_49 (DN4), Lton_37 (CZ), MissRona_44 (CV), Wocket_42 (CV),

Start 24:
• Found in 1 of 19 (5.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Frickyeah_57 (DN1),

Start 29:
• Found in 2 of 19 (10.5%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Lysidious_41 (CV),

Summary by clusters:

There are 7 clusters represented in this pham: CY6, DN4, CZ1, CZ4, CZ, DN1, CV,

Info for manual annotations of cluster CV:
•Start number 12 was manually annotated 2 times for cluster CV.
•Start number 16 was manually annotated 1 time for cluster CV.
•Start number 19 was manually annotated 7 times for cluster CV.
•Start number 29 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CY6:
•Start number 15 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CZ:
•Start number 15 was manually annotated 1 time for cluster CZ.
•Start number 19 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 15 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ4:
•Start number 9 was manually annotated 2 times for cluster CZ4.

Info for manual annotations of cluster DN4:
•Start number 19 was manually annotated 1 time for cluster DN4.

Gene Information:

Gene: Azula_44 Start: 34596, Stop: 33832, Start Num: 12
Candidate Starts for Azula_44:
(Start: 12 @34596 has 2 MA's), (Start: 16 @34590 has 1 MA's), (Start: 19 @34560 has 9 MA's), (23, 34524), (34, 34419), (35, 34404), (66, 34119), (78, 34038), (82, 33993), (85, 33960), (91, 33879), (94, 33864), (96, 33837),

Gene: Beenie_37 Start: 32686, Stop: 31826, Start Num: 9
Candidate Starts for Beenie_37:
(6, 32743), (8, 32710), (Start: 9 @32686 has 2 MA's), (Start: 16 @32659 has 1 MA's), (Start: 19 @32629 has 9 MA's), (23, 32584), (25, 32563), (26, 32557), (36, 32458), (38, 32452), (54, 32293), (57, 32284), (59, 32272), (65, 32176), (75, 32113), (86, 31975), (94, 31879),

Gene: Blueberry_43 Start: 34560, Stop: 33832, Start Num: 19
Candidate Starts for Blueberry_43:
(Start: 12 @34596 has 2 MA's), (Start: 16 @34590 has 1 MA's), (Start: 19 @34560 has 9 MA's), (23, 34524), (34, 34419), (35, 34404), (66, 34119), (78, 34038), (82, 33993), (85, 33960), (91, 33879), (94, 33864), (96, 33837),

Gene: Cashline_41 Start: 34849, Stop: 33920, Start Num: 15
Candidate Starts for Cashline_41:
(Start: 15 @34849 has 3 MA's), (Start: 19 @34813 has 9 MA's), (21, 34789), (22, 34777), (26, 34750), (27, 34735), (42, 34624), (50, 34519), (51, 34510), (53, 34486), (55, 34471), (56, 34459), (69, 34297), (82, 34162), (83, 34156), (93, 34024), (95, 34009), (97, 33979),

Gene: CheeseSpider_45 Start: 32997, Stop: 32239, Start Num: 19
Candidate Starts for CheeseSpider_45:
(14, 33030), (17, 33018), (Start: 19 @32997 has 9 MA's), (28, 32928), (Start: 29 @32922 has 1 MA's), (30, 32916), (37, 32841), (39, 32832), (40, 32826), (46, 32763), (49, 32724), (79, 32442), (81, 32403), (91, 32286), (94, 32271), (96, 32244),

Gene: Fenry_40 Start: 33564, Stop: 32836, Start Num: 19
Candidate Starts for Fenry_40:

(Start: 12 @33600 has 2 MA's), (Start: 16 @33594 has 1 MA's), (Start: 19 @33564 has 9 MA's), (23, 33528), (26, 33504), (34, 33423), (35, 33408), (66, 33123), (78, 33042), (82, 32997), (85, 32964), (94, 32868), (96, 32841),

Gene: Frickyeah_57 Start: 35160, Stop: 34366, Start Num: 24
Candidate Starts for Frickyeah_57:
(4, 35382), (Start: 19 @35208 has 9 MA's), (24, 35160), (32, 35085), (41, 35019), (47, 34947), (67, 34722), (68, 34716), (71, 34695), (74, 34680), (84, 34548),

Gene: Frokostdame_44 Start: 34314, Stop: 33496, Start Num: 16
Candidate Starts for Frokostdame_44:
(6, 34398), (Start: 9 @34341 has 2 MA's), (10, 34338), (Start: 16 @34314 has 1 MA's), (Start: 19 @34284 has 9 MA's), (20, 34272), (23, 34251), (25, 34230), (27, 34209), (31, 34176), (33, 34155), (52, 33990), (60, 33933), (62, 33858), (70, 33780), (73, 33771), (76, 33744), (77, 33714), (80, 33672), (94, 33528), (96, 33501),

Gene: Gambino_46 Start: 34596, Stop: 33832, Start Num: 12
Candidate Starts for Gambino_46:
(Start: 12 @34596 has 2 MA's), (Start: 16 @34590 has 1 MA's), (Start: 19 @34560 has 9 MA's), (23, 34524), (34, 34419), (35, 34404), (66, 34119), (78, 34038), (82, 33993), (85, 33960), (91, 33879), (94, 33864), (96, 33837),

Gene: Jalammah_45 Start: 34877, Stop: 34149, Start Num: 19
Candidate Starts for Jalammah_45:
(Start: 12 @34913 has 2 MA's), (Start: 16 @34907 has 1 MA's), (Start: 19 @34877 has 9 MA's), (23, 34841), (26, 34817), (34, 34736), (35, 34721), (66, 34436), (78, 34355), (82, 34310), (85, 34277), (94, 34181), (96, 34154),

Gene: KappaFarmDelta_43 Start: 32505, Stop: 31777, Start Num: 19
Candidate Starts for KappaFarmDelta_43:
(Start: 12 @32541 has 2 MA's), (Start: 16 @32535 has 1 MA's), (Start: 19 @32505 has 9 MA's), (23, 32469), (26, 32445), (34, 32364), (35, 32349), (66, 32064), (78, 31983), (82, 31938), (85, 31905), (94, 31809), (96, 31782),

Gene: Kuwabara_49 Start: 35751, Stop: 34855, Start Num: 19
Candidate Starts for Kuwabara_49:
(5, 35874), (Start: 19 @35751 has 9 MA's), (26, 35688), (32, 35628), (35, 35592), (48, 35490), (58, 35385), (61, 35370), (63, 35304), (64, 35280), (72, 35220), (91, 34983), (96, 34941), (98, 34887), (99, 34860),

Gene: Lton_37 Start: 27834, Stop: 26986, Start Num: 19
Candidate Starts for Lton_37:
(7, 27918), (11, 27870), (13, 27867), (18, 27840), (Start: 19 @27834 has 9 MA's), (26, 27771), (43, 27627), (44, 27603), (58, 27507), (61, 27492), (63, 27426), (64, 27402), (72, 27342), (87, 27138), (92, 27099),

Gene: Lysidious_41 Start: 33554, Stop: 32868, Start Num: 29
Candidate Starts for Lysidious_41:
(14, 33662), (17, 33650), (Start: 19 @33629 has 9 MA's), (28, 33560), (Start: 29 @33554 has 1 MA's), (30, 33548), (39, 33464), (40, 33458), (46, 33395), (49, 33356), (79, 33074), (81, 33032), (90, 32930), (91, 32915), (94, 32900), (96, 32873),

Gene: Madeline_41 Start: 34777, Stop: 33794, Start Num: 15

Candidate Starts for Madeline_41:
(1, 34978), (2, 34975), (3, 34936), (Start: 15 @34777 has 3 MA's), (Start: 19 @34741 has 9 MA's), (21, 34717), (22, 34705), (26, 34678), (27, 34663), (45, 34507), (51, 34438), (53, 34414), (55, 34399), (56, 34387), (69, 34225), (88, 33982), (89, 33979),

Gene: MissRona_44 Start: 34561, Stop: 33833, Start Num: 19
Candidate Starts for MissRona_44:
(Start: 12 @34597 has 2 MA's), (Start: 16 @34591 has 1 MA's), (Start: 19 @34561 has 9 MA's), (23, 34525), (34, 34420), (35, 34405), (66, 34120), (78, 34039), (82, 33994), (85, 33961), (91, 33880), (94, 33865), (96, 33838),

Gene: Ohgeesy_44 Start: 35572, Stop: 34589, Start Num: 15
Candidate Starts for Ohgeesy_44:
(1, 35773), (2, 35770), (3, 35731), (Start: 15 @35572 has 3 MA's), (Start: 19 @35536 has 9 MA's), (21, 35512), (22, 35500), (26, 35473), (27, 35458), (45, 35302), (51, 35233), (53, 35209), (55, 35194), (56, 35182), (69, 35020), (88, 34777), (89, 34774),

Gene: Sekhmet_44 Start: 33506, Stop: 32646, Start Num: 9
Candidate Starts for Sekhmet_44:
(6, 33563), (8, 33530), (Start: 9 @33506 has 2 MA's), (Start: 16 @33479 has 1 MA's), (Start: 19 @33449 has 9 MA's), (23, 33404), (25, 33383), (26, 33377), (36, 33278), (38, 33272), (54, 33113), (57, 33104), (59, 33092), (65, 32996), (75, 32933), (86, 32795), (94, 32699),

Gene: Wocket_42 Start: 32670, Stop: 31942, Start Num: 19
Candidate Starts for Wocket_42:
(Start: 12 @32706 has 2 MA's), (Start: 16 @32700 has 1 MA's), (Start: 19 @32670 has 9 MA's), (23, 32634), (26, 32610), (34, 32529), (35, 32514), (66, 32229), (78, 32148), (82, 32103), (85, 32070), (94, 31974), (96, 31947),