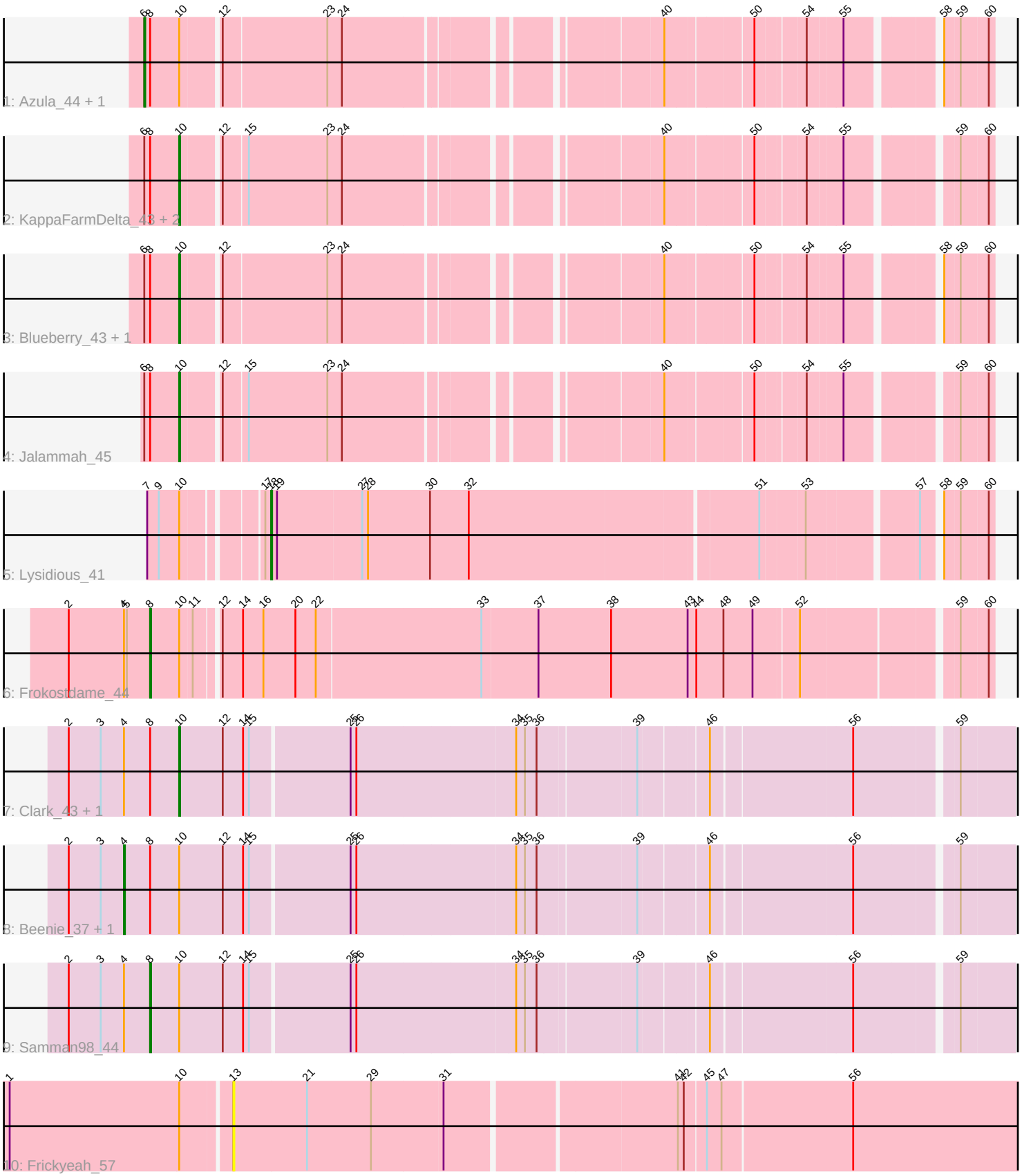
Pham 171848


1: Azula_44 + 1
2: KappaFarmDelta_43 + 2
3: Blueberry_43 + 1
4: Jalammah_45
5: Lysidious_41
6: Frokostdame_44
7: Clark_43 + 1
8: Beenie_37 + 1
9: Samman98_44
10: Frickyeah_57

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 171848 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171848 has 16 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Azula_44, Gambino_46
• Track 2 : KappaFarmDelta_43, Fenry_40, Wocket_42
• Track 3 : Blueberry_43, MissRona_44
• Track 4 : Jalammah_45
• Track 5 : Lysidious_41
• Track 6 : Frokostdame_44
• Track 7 : Clark_43, MichaelScott_44
• Track 8 : Beenie_37, Sekhmet_44
• Track 9 : Samman98_44
• Track 10 : Frickyeah_57

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

The start number called the most often in the published annotations is 10, it was called in 8 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Blueberry_43, Clark_43, Fenry_40, Jalammah_45, KappaFarmDelta_43, MichaelScott_44, MissRona_44, Wocket_42,

Genes that have the "Most Annotated" start but do not call it:
• Azula_44, Beenie_37, Frickyeah_57, Frokostdame_44, Gambino_46, Lysidious_41, Samman98_44, Sekhmet_44,

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

Summary by start number:

Start 4:
• Found in 6 of 16 (37.5%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Beenie_37 (CZ4), Sekhmet_44 (CZ4),

Start 6:
• Found in 8 of 16 (50.0%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Azula_44 (CV), Gambino_46 (CV),

Start 8:
• Found in 14 of 16 (87.5%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Frokostdame_44 (CV), Samman98_44 (CZ4),

Start 10:
• Found in 16 of 16 (100.0%) of genes in pham
• Manual Annotations of this start: 8 of 15
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Blueberry_43 (CV), Clark_43 (CZ4), Fenry_40 (CV), Jalammah_45 (CV), KappaFarmDelta_43 (CV), MichaelScott_44 (CZ4), MissRona_44 (CV), Wocket_42 (CV),

Start 13:
• Found in 1 of 16 (6.2%) 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 18:
• Found in 1 of 16 (6.2%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lysidious_41 (CV),

Summary by clusters:

There are 3 clusters represented in this pham: DN1, CV, CZ4,

Info for manual annotations of cluster CV:
•Start number 6 was manually annotated 2 times for cluster CV.
•Start number 8 was manually annotated 1 time for cluster CV.
•Start number 10 was manually annotated 6 times for cluster CV.
•Start number 18 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CZ4:
•Start number 4 was manually annotated 2 times for cluster CZ4.
•Start number 8 was manually annotated 1 time for cluster CZ4.
•Start number 10 was manually annotated 2 times for cluster CZ4.

Gene Information:

Gene: Azula_44 Start: 34596, Stop: 33832, Start Num: 6
Candidate Starts for Azula_44:
(Start: 6 @34596 has 2 MA's), (Start: 8 @34590 has 2 MA's), (Start: 10 @34560 has 8 MA's), (12, 34524), (23, 34419), (24, 34404), (40, 34119), (50, 34038), (54, 33993), (55, 33960), (58, 33879), (59, 33864), (60, 33837),

Gene: Beenie_37 Start: 32686, Stop: 31826, Start Num: 4
Candidate Starts for Beenie_37:
(2, 32743), (3, 32710), (Start: 4 @32686 has 2 MA's), (Start: 8 @32659 has 2 MA's), (Start: 10 @32629 has 8 MA's), (12, 32584), (14, 32563), (15, 32557), (25, 32458), (26, 32452), (34, 32293), (35, 32284), (36, 32272), (39, 32176), (46, 32113), (56, 31975), (59, 31879),

Gene: Blueberry_43 Start: 34560, Stop: 33832, Start Num: 10
Candidate Starts for Blueberry_43:
(Start: 6 @34596 has 2 MA's), (Start: 8 @34590 has 2 MA's), (Start: 10 @34560 has 8 MA's), (12, 34524), (23, 34419), (24, 34404), (40, 34119), (50, 34038), (54, 33993), (55, 33960), (58, 33879), (59, 33864), (60, 33837),

Gene: Clark_43 Start: 32446, Stop: 31643, Start Num: 10
Candidate Starts for Clark_43:
(2, 32560), (3, 32527), (Start: 4 @32503 has 2 MA's), (Start: 8 @32476 has 2 MA's), (Start: 10 @32446 has 8 MA's), (12, 32401), (14, 32380), (15, 32374), (25, 32275), (26, 32269), (34, 32110), (35, 32101), (36, 32089), (39, 31993), (46, 31930), (56, 31792), (59, 31696),

Gene: Fenry_40 Start: 33564, Stop: 32836, Start Num: 10
Candidate Starts for Fenry_40:
(Start: 6 @33600 has 2 MA's), (Start: 8 @33594 has 2 MA's), (Start: 10 @33564 has 8 MA's), (12, 33528), (15, 33504), (23, 33423), (24, 33408), (40, 33123), (50, 33042), (54, 32997), (55, 32964), (59, 32868), (60, 32841),

Gene: Frickyeah_57 Start: 35160, Stop: 34366, Start Num: 13
Candidate Starts for Frickyeah_57:
(1, 35382), (Start: 10 @35208 has 8 MA's), (13, 35160), (21, 35085), (29, 35019), (31, 34947), (41, 34722), (42, 34716), (45, 34695), (47, 34680), (56, 34548),

Gene: Frokostdame_44 Start: 34314, Stop: 33496, Start Num: 8
Candidate Starts for Frokostdame_44:
(2, 34398), (Start: 4 @34341 has 2 MA's), (5, 34338), (Start: 8 @34314 has 2 MA's), (Start: 10 @34284 has 8 MA's), (11, 34272), (12, 34251), (14, 34230), (16, 34209), (20, 34176), (22, 34155), (33, 33990), (37, 33933), (38, 33858), (43, 33780), (44, 33771), (48, 33744), (49, 33714), (52, 33672), (59, 33528), (60, 33501),

Gene: Gambino_46 Start: 34596, Stop: 33832, Start Num: 6
Candidate Starts for Gambino_46:
(Start: 6 @34596 has 2 MA's), (Start: 8 @34590 has 2 MA's), (Start: 10 @34560 has 8 MA's), (12, 34524), (23, 34419), (24, 34404), (40, 34119), (50, 34038), (54, 33993), (55, 33960), (58, 33879), (59, 33864), (60, 33837),

Gene: Jalammah_45 Start: 34877, Stop: 34149, Start Num: 10
Candidate Starts for Jalammah_45:
(Start: 6 @34913 has 2 MA's), (Start: 8 @34907 has 2 MA's), (Start: 10 @34877 has 8 MA's), (12, 34841), (15, 34817), (23, 34736), (24, 34721), (40, 34436), (50, 34355), (54, 34310), (55, 34277), (59, 34181), (60, 34154),

Gene: KappaFarmDelta_43 Start: 32505, Stop: 31777, Start Num: 10
Candidate Starts for KappaFarmDelta_43:
(Start: 6 @32541 has 2 MA's), (Start: 8 @32535 has 2 MA's), (Start: 10 @32505 has 8 MA's), (12, 32469), (15, 32445), (23, 32364), (24, 32349), (40, 32064), (50, 31983), (54, 31938), (55, 31905), (59, 31809), (60, 31782),

Gene: Lysidious_41 Start: 33554, Stop: 32868, Start Num: 18
Candidate Starts for Lysidious_41:
(7, 33662), (9, 33650), (Start: 10 @33629 has 8 MA's), (17, 33560), (Start: 18 @33554 has 1 MA's), (19, 33548), (27, 33464), (28, 33458), (30, 33395), (32, 33356), (51, 33074), (53, 33032), (57, 32930), (58, 32915), (59, 32900), (60, 32873),

Gene: MichaelScott_44 Start: 33922, Stop: 33119, Start Num: 10
Candidate Starts for MichaelScott_44:
(2, 34036), (3, 34003), (Start: 4 @33979 has 2 MA's), (Start: 8 @33952 has 2 MA's), (Start: 10 @33922 has 8 MA's), (12, 33877), (14, 33856), (15, 33850), (25, 33751), (26, 33745), (34, 33586), (35, 33577), (36, 33565), (39, 33469), (46, 33406), (56, 33268), (59, 33172),

Gene: MissRona_44 Start: 34561, Stop: 33833, Start Num: 10
Candidate Starts for MissRona_44:
(Start: 6 @34597 has 2 MA's), (Start: 8 @34591 has 2 MA's), (Start: 10 @34561 has 8 MA's), (12, 34525), (23, 34420), (24, 34405), (40, 34120), (50, 34039), (54, 33994), (55, 33961), (58, 33880), (59, 33865), (60, 33838),

Gene: Samman98_44 Start: 32579, Stop: 31746, Start Num: 8
Candidate Starts for Samman98_44:
(2, 32663), (3, 32630), (Start: 4 @32606 has 2 MA's), (Start: 8 @32579 has 2 MA's), (Start: 10 @32549 has 8 MA's), (12, 32504), (14, 32483), (15, 32477), (25, 32378), (26, 32372), (34, 32213), (35, 32204), (36, 32192), (39, 32096), (46, 32033), (56, 31895), (59, 31799),

Gene: Sekhmet_44 Start: 33506, Stop: 32646, Start Num: 4
Candidate Starts for Sekhmet_44:
(2, 33563), (3, 33530), (Start: 4 @33506 has 2 MA's), (Start: 8 @33479 has 2 MA's), (Start: 10 @33449 has 8 MA's), (12, 33404), (14, 33383), (15, 33377), (25, 33278), (26, 33272), (34, 33113), (35, 33104), (36, 33092), (39, 32996), (46, 32933), (56, 32795), (59, 32699),

Gene: Wocket_42 Start: 32670, Stop: 31942, Start Num: 10
Candidate Starts for Wocket_42:
(Start: 6 @32706 has 2 MA's), (Start: 8 @32700 has 2 MA's), (Start: 10 @32670 has 8 MA's), (12, 32634), (15, 32610), (23, 32529), (24, 32514), (40, 32229), (50, 32148), (54, 32103), (55, 32070), (59, 31974), (60, 31947),