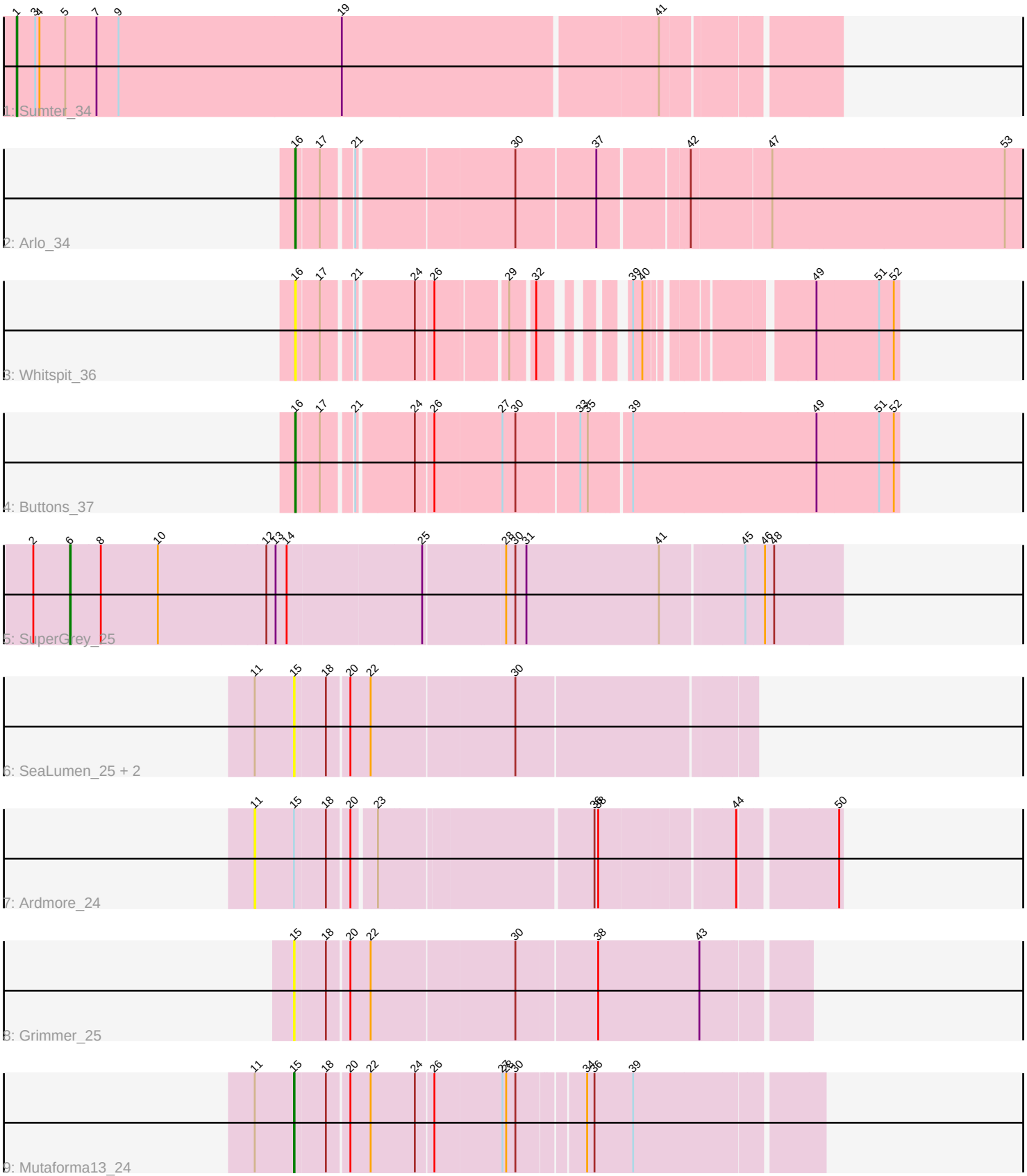
Pham 291726


1: Sumter_34
2: Arlo_34
3: Whitspit_36
4: Buttons_37
5: SuperGrey_25
6: SeaLumen_25 + 2
7: Ardmore_24
8: Grimmer_25
9: Mutaforma13_24

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 291726 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291726 has 11 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Sumter_34
• Track 2 : Arlo_34
• Track 3 : Whitspit_36
• Track 4 : Buttons_37
• Track 5 : SuperGrey_25
• Track 6 : SeaLumen_25, Enzomatic_26, Polo2Bam_26
• Track 7 : Ardmore_24
• Track 8 : Grimmer_25
• Track 9 : Mutaforma13_24

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

The start number called the most often in the published annotations is 16, it was called in 2 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arlo_34, Buttons_37, Whitspit_36,

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

Genes that do not have the "Most Annotated" start:
• Ardmore_24, Enzomatic_26, Grimmer_25, Mutaforma13_24, Polo2Bam_26, SeaLumen_25, Sumter_34, SuperGrey_25,

Summary by start number:

Start 1:
• Found in 1 of 11 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sumter_34 (A1),

Start 6:

• Found in 1 of 11 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SuperGrey_25 (F1),

Start 11:
• Found in 5 of 11 (45.5%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Ardmore_24 (F1),

Start 15:
• Found in 6 of 11 (54.5%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Enzomatic_26 (F1), Grimmer_25 (F1), Mutaforma13_24 (F1), Polo2Bam_26 (F1), SeaLumen_25 (F1),

Start 16:
• Found in 3 of 11 (27.3%) of genes in pham
• Manual Annotations of this start: 2 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arlo_34 (A1), Buttons_37 (A1), Whitspit_36 (A1),

Summary by clusters:

There are 2 clusters represented in this pham: A1, F1,

Info for manual annotations of cluster A1:
•Start number 1 was manually annotated 1 time for cluster A1.
•Start number 16 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster F1:
•Start number 6 was manually annotated 1 time for cluster F1.
•Start number 15 was manually annotated 1 time for cluster F1.

Gene Information:

Gene: Ardmore_24 Start: 24249, Stop: 25115, Start Num: 11
Candidate Starts for Ardmore_24:
(11, 24249), (Start: 15 @24309 has 1 MA's), (18, 24357), (20, 24390), (23, 24423), (36, 24753), (38, 24759), (44, 24963), (50, 25110),

Gene: Arlo_34 Start: 27660, Stop: 28868, Start Num: 16
Candidate Starts for Arlo_34:
(Start: 16 @27660 has 2 MA's), (17, 27696), (21, 27738), (30, 27981), (37, 28107), (42, 28242), (47, 28368), (53, 28743),

Gene: Buttons_37 Start: 29009, Stop: 29929, Start Num: 16
Candidate Starts for Buttons_37:

(Start: 16 @29009 has 2 MA's), (17, 29045), (21, 29087), (24, 29174), (26, 29201), (27, 29309), (30, 29330), (33, 29429), (35, 29441), (39, 29504), (49, 29798), (51, 29897), (52, 29921),

Gene: Enzomatic_26 Start: 24314, Stop: 25024, Start Num: 15
Candidate Starts for Enzomatic_26:
(11, 24254), (Start: 15 @24314 has 1 MA's), (18, 24362), (20, 24395), (22, 24428), (30, 24656),

Gene: Grimmer_25 Start: 24869, Stop: 25660, Start Num: 15
Candidate Starts for Grimmer_25:
(Start: 15 @24869 has 1 MA's), (18, 24917), (20, 24950), (22, 24983), (30, 25211), (38, 25337), (43, 25502),

Gene: Mutaforma13_24 Start: 24312, Stop: 25115, Start Num: 15
Candidate Starts for Mutaforma13_24:
(11, 24252), (Start: 15 @24312 has 1 MA's), (18, 24360), (20, 24393), (22, 24426), (24, 24498), (26, 24525), (27, 24633), (28, 24639), (30, 24654), (34, 24753), (36, 24765), (39, 24828),

Gene: Polo2Bam_26 Start: 24314, Stop: 25024, Start Num: 15
Candidate Starts for Polo2Bam_26:
(11, 24254), (Start: 15 @24314 has 1 MA's), (18, 24362), (20, 24395), (22, 24428), (30, 24656),

Gene: SeaLumen_25 Start: 24314, Stop: 25024, Start Num: 15
Candidate Starts for SeaLumen_25:
(11, 24254), (Start: 15 @24314 has 1 MA's), (18, 24362), (20, 24395), (22, 24428), (30, 24656),

Gene: Sumter_34 Start: 27596, Stop: 28885, Start Num: 1
Candidate Starts for Sumter_34:
(Start: 1 @27596 has 1 MA's), (3, 27626), (4, 27632), (5, 27674), (7, 27725), (9, 27761), (19, 28124), (41, 28622),

Gene: SuperGrey_25 Start: 24942, Stop: 26156, Start Num: 6
Candidate Starts for SuperGrey_25:
(2, 24882), (Start: 6 @24942 has 1 MA's), (8, 24990), (10, 25083), (12, 25254), (13, 25269), (14, 25287), (25, 25500), (28, 25626), (30, 25641), (31, 25659), (41, 25872), (45, 26001), (46, 26031), (48, 26046),

Gene: Whitspit_36 Start: 28700, Stop: 29473, Start Num: 16
Candidate Starts for Whitspit_36:
(Start: 16 @28700 has 2 MA's), (17, 28736), (21, 28778), (24, 28865), (26, 28892), (29, 28994), (32, 29027), (39, 29108), (40, 29123), (49, 29342), (51, 29441), (52, 29465),