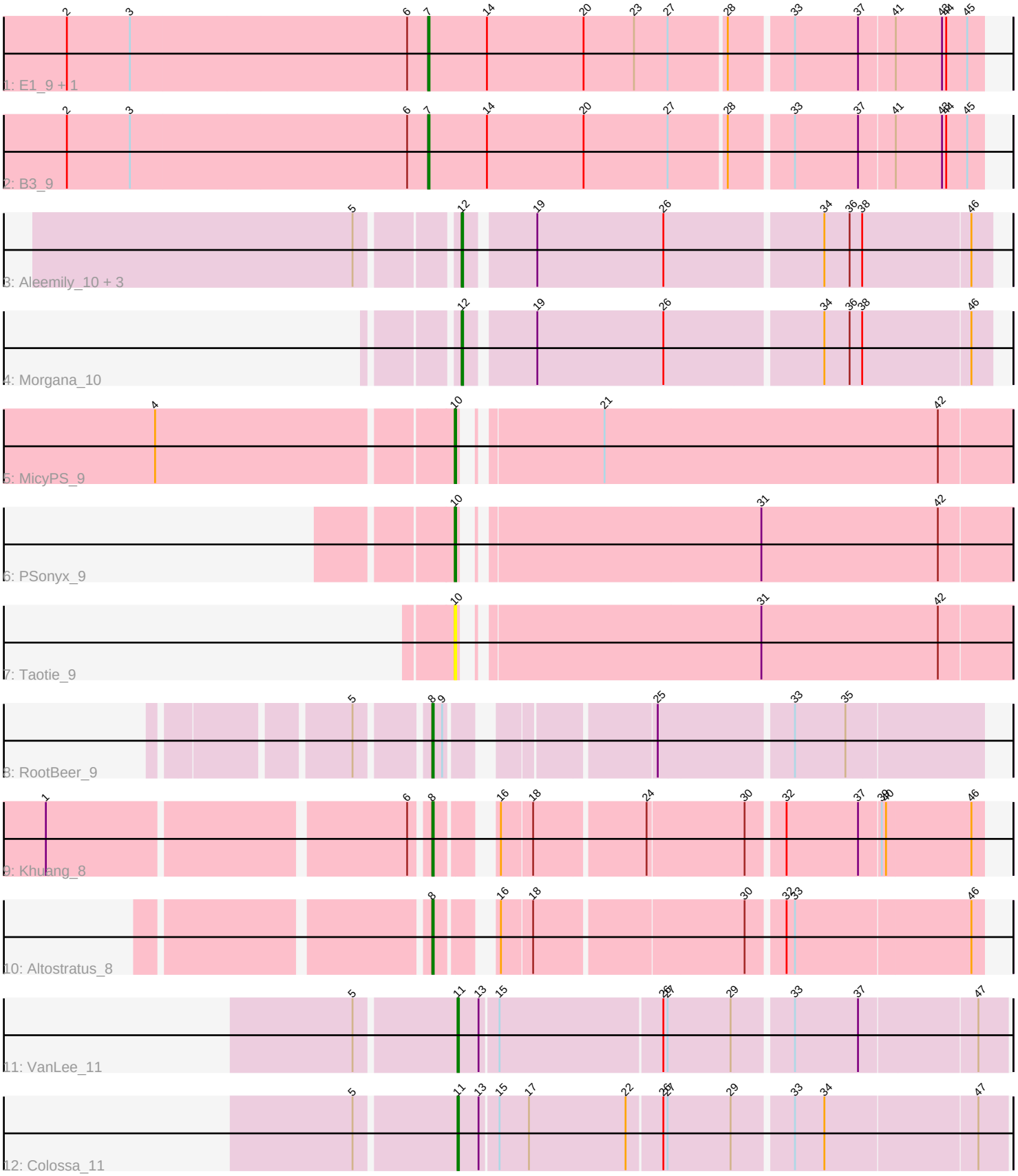
Pham 346246


1: E1_9 + 1
2: B3_9
3: Aleemily_10 + 3
4: Morgana_10
5: MicyPS_9
6: PSonyx_9
7: Taotie_9
8: RootBeer_9
9: Khuang_8
10: Altostratus_8
11: VanLee_11
12: Colossa_11

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 346246 Report

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

Pham number 346246 has 16 members, 1 are drafts.

Phages represented in each track:
• Track 1 : E1_9, Anatole_9
• Track 2 : B3_9
• Track 3 : Aleemily_10, ObLaDi_10, ModicumRichard_10, Cafasso_10
• Track 4 : Morgana_10
• Track 5 : MicyPS_9
• Track 6 : PSonyx_9
• Track 7 : Taotie_9
• Track 8 : RootBeer_9
• Track 9 : Khuang_8
• Track 10 : Altostratus_8
• Track 11 : VanLee_11
• Track 12 : Colossa_11

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

The start number called the most often in the published annotations is 12, it was called in 5 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aleemily_10, Cafasso_10, ModicumRichard_10, Morgana_10, ObLaDi_10,

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

Genes that do not have the "Most Annotated" start:
• Altostratus_8, Anatole_9, B3_9, Colossa_11, E1_9, Khuang_8, MicyPS_9, PSonyx_9, RootBeer_9, Taotie_9, VanLee_11,

Summary by start number:

Start 7:
• Found in 3 of 16 (18.8%) of genes in pham
• Manual Annotations of this start: 3 of 15
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Anatole_9 (BV), B3_9 (BV), E1_9 (BV),

Start 8:
• Found in 3 of 16 (18.8%) of genes in pham
• Manual Annotations of this start: 3 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altostratus_8 (FS), Khuang_8 (FS), RootBeer_9 (FA),

Start 10:
• Found in 3 of 16 (18.8%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MicyPS_9 (EQ), PSonyx_9 (EQ), Taotie_9 (EQ),

Start 11:
• Found in 2 of 16 (12.5%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Colossa_11 (KA), VanLee_11 (KA),

Start 12:
• Found in 5 of 16 (31.2%) of genes in pham
• Manual Annotations of this start: 5 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aleemily_10 (DZ), Cafasso_10 (DZ), ModicumRichard_10 (DZ), Morgana_10 (DZ), ObLaDi_10 (DZ),

Summary by clusters:

There are 6 clusters represented in this pham: KA, FS, FA, BV, DZ, EQ,

Info for manual annotations of cluster BV:
•Start number 7 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster DZ:
•Start number 12 was manually annotated 5 times for cluster DZ.

Info for manual annotations of cluster EQ:
•Start number 10 was manually annotated 2 times for cluster EQ.

Info for manual annotations of cluster FA:
•Start number 8 was manually annotated 1 time for cluster FA.

Info for manual annotations of cluster FS:
•Start number 8 was manually annotated 2 times for cluster FS.

Info for manual annotations of cluster KA:
•Start number 11 was manually annotated 2 times for cluster KA.

Gene Information:

Gene: Aleemily_10 Start: 7738, Stop: 8097, Start Num: 12
Candidate Starts for Aleemily_10:
(5, 7675), (Start: 12 @7738 has 5 MA's), (19, 7783), (26, 7873), (34, 7981), (36, 7999), (38, 8008), (46, 8083),

Gene: Altostratus_8 Start: 6384, Stop: 6734, Start Num: 8
Candidate Starts for Altostratus_8:
(Start: 8 @6384 has 3 MA's), (16, 6411), (18, 6432), (30, 6573), (32, 6597), (33, 6603), (46, 6726),

Gene: Anatole_9 Start: 6977, Stop: 7360, Start Num: 7
Candidate Starts for Anatole_9:
(2, 6722), (3, 6767), (6, 6962), (Start: 7 @6977 has 3 MA's), (14, 7019), (20, 7088), (23, 7124), (27, 7148), (28, 7187), (33, 7229), (37, 7274), (41, 7298), (43, 7331), (44, 7334), (45, 7349),

Gene: B3_9 Start: 6977, Stop: 7360, Start Num: 7
Candidate Starts for B3_9:
(2, 6722), (3, 6767), (6, 6962), (Start: 7 @6977 has 3 MA's), (14, 7019), (20, 7088), (27, 7148), (28, 7187), (33, 7229), (37, 7274), (41, 7298), (43, 7331), (44, 7334), (45, 7349),

Gene: Cafasso_10 Start: 7738, Stop: 8097, Start Num: 12
Candidate Starts for Cafasso_10:
(5, 7675), (Start: 12 @7738 has 5 MA's), (19, 7783), (26, 7873), (34, 7981), (36, 7999), (38, 8008), (46, 8083),

Gene: Colossa_11 Start: 7622, Stop: 7996, Start Num: 11
Candidate Starts for Colossa_11:
(5, 7553), (Start: 11 @7622 has 2 MA's), (13, 7637), (15, 7649), (17, 7670), (22, 7739), (26, 7763), (27, 7766), (29, 7811), (33, 7850), (34, 7871), (47, 7976),

Gene: E1_9 Start: 6977, Stop: 7360, Start Num: 7
Candidate Starts for E1_9:
(2, 6722), (3, 6767), (6, 6962), (Start: 7 @6977 has 3 MA's), (14, 7019), (20, 7088), (23, 7124), (27, 7148), (28, 7187), (33, 7229), (37, 7274), (41, 7298), (43, 7331), (44, 7334), (45, 7349),

Gene: Khuang_8 Start: 6379, Stop: 6729, Start Num: 8
Candidate Starts for Khuang_8:
(1, 6124), (6, 6367), (Start: 8 @6379 has 3 MA's), (16, 6406), (18, 6427), (24, 6502), (30, 6568), (32, 6592), (37, 6643), (39, 6658), (40, 6661), (46, 6721),

Gene: MicyPS_9 Start: 7562, Stop: 7933, Start Num: 10
Candidate Starts for MicyPS_9:
(4, 7364), (Start: 10 @7562 has 2 MA's), (21, 7646), (42, 7883),

Gene: ModicumRichard_10 Start: 7738, Stop: 8097, Start Num: 12
Candidate Starts for ModicumRichard_10:
(5, 7675), (Start: 12 @7738 has 5 MA's), (19, 7783), (26, 7873), (34, 7981), (36, 7999), (38, 8008), (46, 8083),

Gene: Morgana_10 Start: 7742, Stop: 8101, Start Num: 12
Candidate Starts for Morgana_10:
(Start: 12 @7742 has 5 MA's), (19, 7787), (26, 7877), (34, 7985), (36, 8003), (38, 8012), (46, 8087),

Gene: ObLaDi_10 Start: 7738, Stop: 8097, Start Num: 12
Candidate Starts for ObLaDi_10:
(5, 7675), (Start: 12 @7738 has 5 MA's), (19, 7783), (26, 7873), (34, 7981), (36, 7999), (38, 8008), (46, 8083),

Gene: PSonyx_9 Start: 7709, Stop: 8080, Start Num: 10
Candidate Starts for PSonyx_9:
(Start: 10 @7709 has 2 MA's), (31, 7904), (42, 8030),

Gene: RootBeer_9 Start: 6513, Stop: 6860, Start Num: 8
Candidate Starts for RootBeer_9:
(5, 6468), (Start: 8 @6513 has 3 MA's), (9, 6519), (25, 6639), (33, 6729), (35, 6765),

Gene: Taotie_9 Start: 8606, Stop: 8977, Start Num: 10
Candidate Starts for Taotie_9:
(Start: 10 @8606 has 2 MA's), (31, 8801), (42, 8927),

Gene: VanLee_11 Start: 7616, Stop: 7990, Start Num: 11
Candidate Starts for VanLee_11:
(5, 7547), (Start: 11 @7616 has 2 MA's), (13, 7631), (15, 7643), (26, 7757), (27, 7760), (29, 7805), (33, 7844), (37, 7889), (47, 7970),