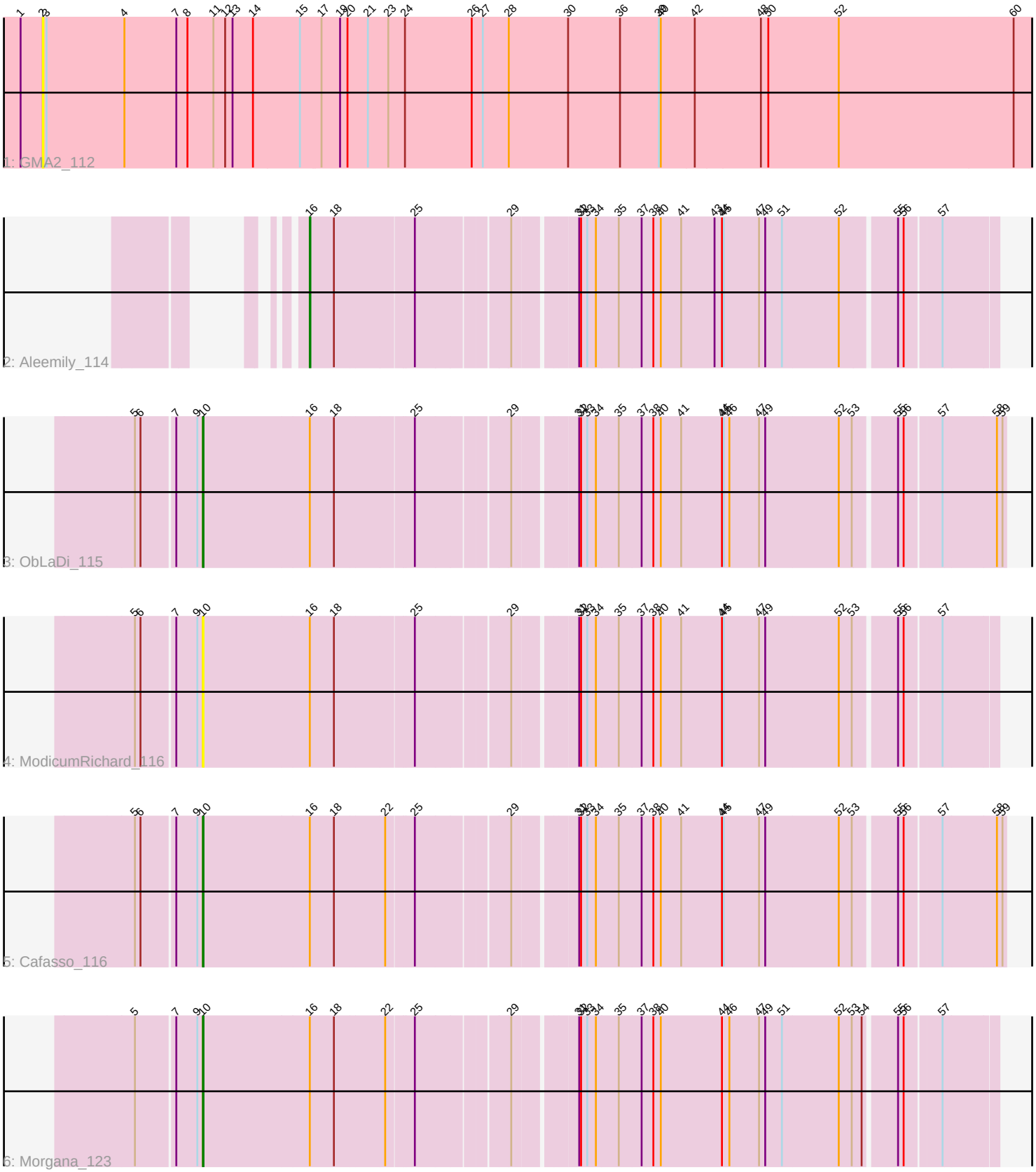
Pham 281284


1: GMA2_112
2: Aleemily_114
3: ObLaDi_115
4: ModicumRichard_116
5: Cafasso_116
6: Morgana_123

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 281284 Report

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

Pham number 281284 has 6 members, 2 are drafts.

Phages represented in each track:
• Track 1 : GMA2_112
• Track 2 : Aleemily_114
• Track 3 : ObLaDi_115
• Track 4 : ModicumRichard_116
• Track 5 : Cafasso_116
• Track 6 : Morgana_123

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 3 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Cafasso_116, ModicumRichard_116, Morgana_123, ObLaDi_115,

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

Genes that do not have the "Most Annotated" start:
• Aleemily_114, GMA2_112,

Summary by start number:

Start 2:
• Found in 1 of 6 (16.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA2_112 (DS),

Start 10:
• Found in 4 of 6 (66.7%) of genes in pham
• Manual Annotations of this start: 3 of 4
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Cafasso_116 (DZ), ModicumRichard_116 (DZ), Morgana_123 (DZ), ObLaDi_115 (DZ),

Start 16:
• Found in 5 of 6 (83.3%) of genes in pham
• Manual Annotations of this start: 1 of 4
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Aleemily_114 (DZ),

Summary by clusters:

There are 2 clusters represented in this pham: DZ, DS,

Info for manual annotations of cluster DZ:
•Start number 10 was manually annotated 3 times for cluster DZ.
•Start number 16 was manually annotated 1 time for cluster DZ.

Gene Information:

Gene: Aleemily_114 Start: 63942, Stop: 62920, Start Num: 16
Candidate Starts for Aleemily_114:
(Start: 16 @63942 has 1 MA's), (18, 63903), (25, 63783), (29, 63648), (31, 63561), (32, 63558), (33, 63549), (34, 63537), (35, 63501), (37, 63465), (38, 63447), (40, 63435), (41, 63402), (43, 63348), (44, 63336), (45, 63333), (47, 63276), (49, 63267), (51, 63240), (52, 63150), (55, 63066), (56, 63057), (57, 63003),

Gene: Cafasso_116 Start: 64579, Stop: 63371, Start Num: 10
Candidate Starts for Cafasso_116:
(5, 64681), (6, 64672), (7, 64621), (9, 64588), (Start: 10 @64579 has 3 MA's), (Start: 16 @64408 has 1 MA's), (18, 64369), (22, 64291), (25, 64249), (29, 64114), (31, 64027), (32, 64024), (33, 64015), (34, 64003), (35, 63967), (37, 63931), (38, 63913), (40, 63901), (41, 63868), (44, 63802), (45, 63799), (47, 63742), (49, 63733), (52, 63616), (53, 63595), (55, 63532), (56, 63523), (57, 63469), (58, 63385), (59, 63376),

Gene: GMA2_112 Start: 97174, Stop: 95579, Start Num: 2
Candidate Starts for GMA2_112:
(1, 97210), (2, 97174), (3, 97168), (4, 97042), (7, 96958), (8, 96940), (11, 96898), (12, 96880), (13, 96868), (14, 96835), (15, 96760), (17, 96727), (19, 96697), (20, 96685), (21, 96652), (23, 96619), (24, 96592), (26, 96484), (27, 96466), (28, 96424), (30, 96328), (36, 96244), (39, 96181), (40, 96178), (42, 96124), (48, 96019), (50, 96007), (52, 95893), (60, 95611),

Gene: ModicumRichard_116 Start: 64867, Stop: 63674, Start Num: 10
Candidate Starts for ModicumRichard_116:
(5, 64969), (6, 64960), (7, 64909), (9, 64876), (Start: 10 @64867 has 3 MA's), (Start: 16 @64696 has 1 MA's), (18, 64657), (25, 64537), (29, 64402), (31, 64315), (32, 64312), (33, 64303), (34, 64291), (35, 64255), (37, 64219), (38, 64201), (40, 64189), (41, 64156), (44, 64090), (45, 64087), (47, 64030), (49, 64021), (52, 63904), (53, 63883), (55, 63820), (56, 63811), (57, 63757),

Gene: Morgana_123 Start: 67037, Stop: 65844, Start Num: 10
Candidate Starts for Morgana_123:

(5, 67139), (7, 67079), (9, 67046), (Start: 10 @67037 has 3 MA's), (Start: 16 @66866 has 1 MA's), (18, 66827), (22, 66749), (25, 66707), (29, 66572), (31, 66485), (32, 66482), (33, 66473), (34, 66461), (35, 66425), (37, 66389), (38, 66371), (40, 66359), (44, 66260), (46, 66248), (47, 66200), (49, 66191), (51, 66164), (52, 66074), (53, 66053), (54, 66038), (55, 65990), (56, 65981), (57, 65927),

Gene: ObLaDi_115 Start: 64269, Stop: 63061, Start Num: 10
Candidate Starts for ObLaDi_115:
(5, 64371), (6, 64362), (7, 64311), (9, 64278), (Start: 10 @64269 has 3 MA's), (Start: 16 @64098 has 1 MA's), (18, 64059), (25, 63939), (29, 63804), (31, 63717), (32, 63714), (33, 63705), (34, 63693), (35, 63657), (37, 63621), (38, 63603), (40, 63591), (41, 63558), (44, 63492), (45, 63489), (46, 63480), (47, 63432), (49, 63423), (52, 63306), (53, 63285), (55, 63222), (56, 63213), (57, 63159), (58, 63075), (59, 63066),