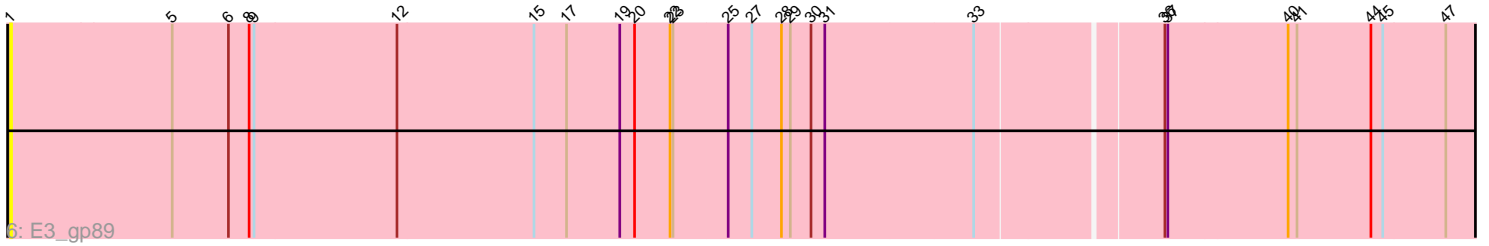
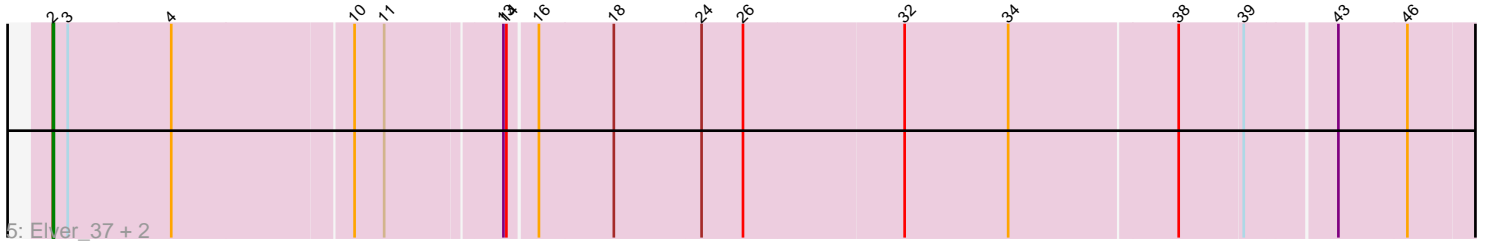
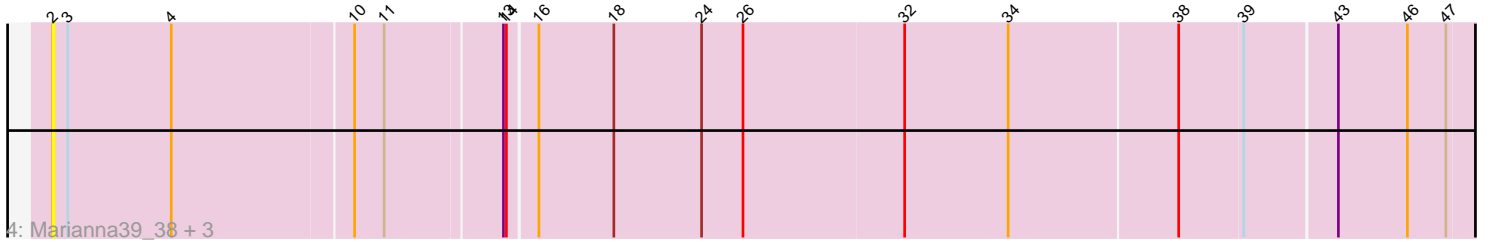
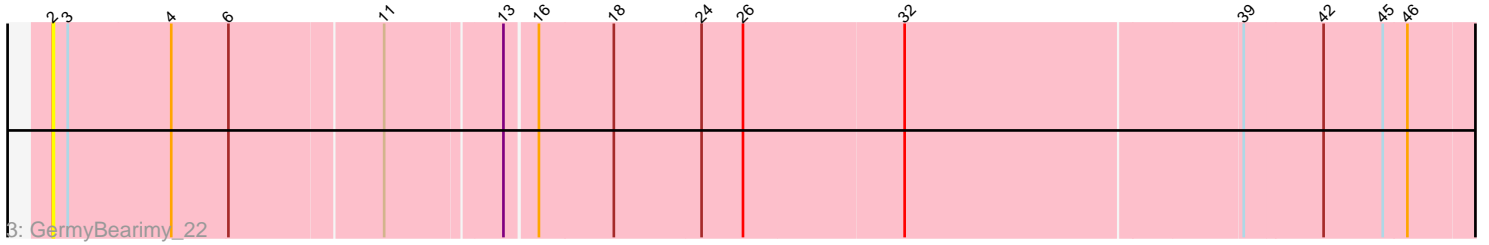
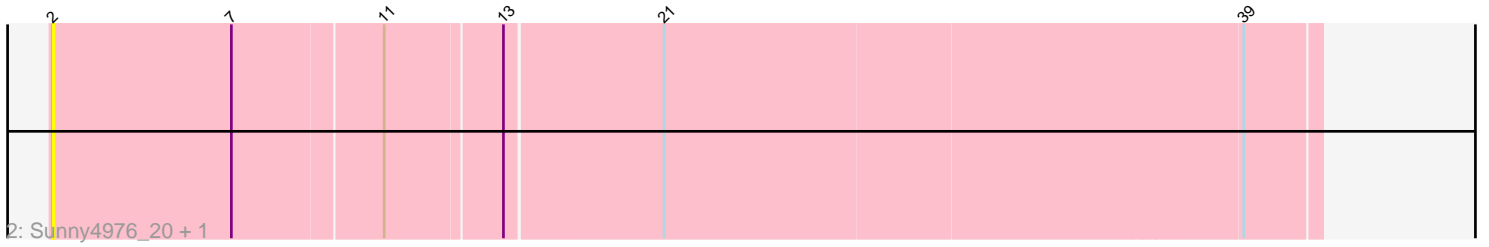
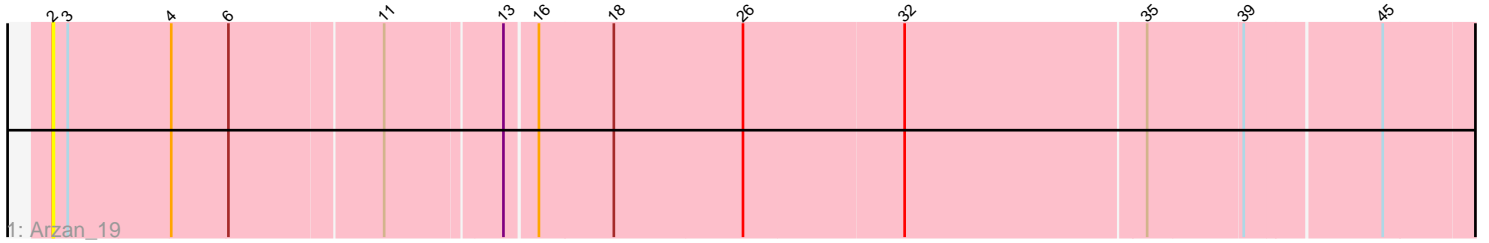


Pham 297141



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 297141 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297141 has 12 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Arzan\_19
- Track 2 : Sunny4976\_20, Jazzy4900\_21
- Track 3 : GermyBearimy\_22
- Track 4 : Marianna39\_38, JeNeSaisPas\_36, Kureo\_38, Gandionco\_38
- Track 5 : Elver\_37, Paella\_37, Qui\_37
- Track 6 : E3\_gp89

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

The start number called the most often in the published annotations is 2, it was called in 3 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arzan\_19, Elver\_37, Gandionco\_38, GermyBearimy\_22, Jazzy4900\_21, JeNeSaisPas\_36, Kureo\_38, Marianna39\_38, Paella\_37, Qui\_37, Sunny4976\_20,

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

- 

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

- E3\_gp89,

### **Summary by start number:**

Start 1:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: E3\_gp89 (singleton),

Start 2:

- Found in 11 of 12 ( 91.7% ) of genes in pham
- Manual Annotations of this start: 3 of 3
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Arzan\_19 (FI), Elver\_37 (FK), Gandionco\_38 (FK), GermyBearimy\_22 (FI), Jazzy4900\_21 (FI), JeNeSaisPas\_36 (FK), Kureo\_38 (FK), Marianna39\_38 (FK), Paella\_37 (FK), Qui\_37 (FK), Sunny4976\_20 (FI),

### **Summary by clusters:**

There are 3 clusters represented in this pham: FI, singleton, FK,

Info for manual annotations of cluster FK:

- Start number 2 was manually annotated 3 times for cluster FK.

### **Gene Information:**

Gene: Arzan\_19 Start: 14397, Stop: 15788, Start Num: 2

Candidate Starts for Arzan\_19:

(Start: 2 @14397 has 3 MA's), (3, 14412), (4, 14514), (6, 14571), (11, 14721), (13, 14832), (16, 14862), (18, 14937), (26, 15066), (32, 15225), (35, 15465), (39, 15558), (45, 15690),

Gene: E3\_gp89 Start: 50133, Stop: 51623, Start Num: 1

Candidate Starts for E3\_gp89:

(1, 50133), (5, 50295), (6, 50352), (8, 50373), (9, 50376), (12, 50520), (15, 50658), (17, 50691), (19, 50745), (20, 50760), (22, 50796), (23, 50799), (25, 50853), (27, 50877), (28, 50907), (29, 50916), (30, 50937), (31, 50949), (33, 51096), (36, 51273), (37, 51276), (40, 51396), (41, 51405), (44, 51480), (45, 51492), (47, 51555),

Gene: Elver\_37 Start: 25431, Stop: 26822, Start Num: 2

Candidate Starts for Elver\_37:

(Start: 2 @25431 has 3 MA's), (3, 25446), (4, 25548), (10, 25725), (11, 25755), (13, 25866), (14, 25869), (16, 25896), (18, 25971), (24, 26058), (26, 26100), (32, 26259), (34, 26364), (38, 26529), (39, 26592), (43, 26679), (46, 26748),

Gene: Gandionco\_38 Start: 25953, Stop: 27344, Start Num: 2

Candidate Starts for Gandionco\_38:

(Start: 2 @25953 has 3 MA's), (3, 25968), (4, 26070), (10, 26247), (11, 26277), (13, 26388), (14, 26391), (16, 26418), (18, 26493), (24, 26580), (26, 26622), (32, 26781), (34, 26886), (38, 27051), (39, 27114), (43, 27201), (46, 27270), (47, 27309),

Gene: GermyBearimy\_22 Start: 14822, Stop: 16219, Start Num: 2

Candidate Starts for GermyBearimy\_22:

(Start: 2 @14822 has 3 MA's), (3, 14837), (4, 14939), (6, 14996), (11, 15146), (13, 15257), (16, 15287), (18, 15362), (24, 15449), (26, 15491), (32, 15650), (39, 15983), (42, 16061), (45, 16121), (46, 16145),

Gene: Jazzy4900\_21 Start: 14415, Stop: 15650, Start Num: 2

Candidate Starts for Jazzy4900\_21:

(Start: 2 @14415 has 3 MA's), (7, 14592), (11, 14739), (13, 14850), (21, 15006), (39, 15576),

Gene: JeNeSaisPas\_36 Start: 25966, Stop: 27357, Start Num: 2

Candidate Starts for JeNeSaisPas\_36:

(Start: 2 @25966 has 3 MA's), (3, 25981), (4, 26083), (10, 26260), (11, 26290), (13, 26401), (14, 26404), (16, 26431), (18, 26506), (24, 26593), (26, 26635), (32, 26794), (34, 26899), (38, 27064), (39, 27127), (43, 27214), (46, 27283), (47, 27322),

Gene: Kureo\_38 Start: 24776, Stop: 26167, Start Num: 2

Candidate Starts for Kureo\_38:

(Start: 2 @24776 has 3 MA's), (3, 24791), (4, 24893), (10, 25070), (11, 25100), (13, 25211), (14, 25214), (16, 25241), (18, 25316), (24, 25403), (26, 25445), (32, 25604), (34, 25709), (38, 25874), (39, 25937), (43, 26024), (46, 26093), (47, 26132),

Gene: Marianna39\_38 Start: 25953, Stop: 27344, Start Num: 2

Candidate Starts for Marianna39\_38:

(Start: 2 @25953 has 3 MA's), (3, 25968), (4, 26070), (10, 26247), (11, 26277), (13, 26388), (14, 26391), (16, 26418), (18, 26493), (24, 26580), (26, 26622), (32, 26781), (34, 26886), (38, 27051), (39, 27114), (43, 27201), (46, 27270), (47, 27309),

Gene: Paella\_37 Start: 25433, Stop: 26824, Start Num: 2

Candidate Starts for Paella\_37:

(Start: 2 @25433 has 3 MA's), (3, 25448), (4, 25550), (10, 25727), (11, 25757), (13, 25868), (14, 25871), (16, 25898), (18, 25973), (24, 26060), (26, 26102), (32, 26261), (34, 26366), (38, 26531), (39, 26594), (43, 26681), (46, 26750),

Gene: Qui\_37 Start: 25433, Stop: 26824, Start Num: 2

Candidate Starts for Qui\_37:

(Start: 2 @25433 has 3 MA's), (3, 25448), (4, 25550), (10, 25727), (11, 25757), (13, 25868), (14, 25871), (16, 25898), (18, 25973), (24, 26060), (26, 26102), (32, 26261), (34, 26366), (38, 26531), (39, 26594), (43, 26681), (46, 26750),

Gene: Sunny4976\_20 Start: 14415, Stop: 15650, Start Num: 2

Candidate Starts for Sunny4976\_20:

(Start: 2 @14415 has 3 MA's), (7, 14592), (11, 14739), (13, 14850), (21, 15006), (39, 15576),