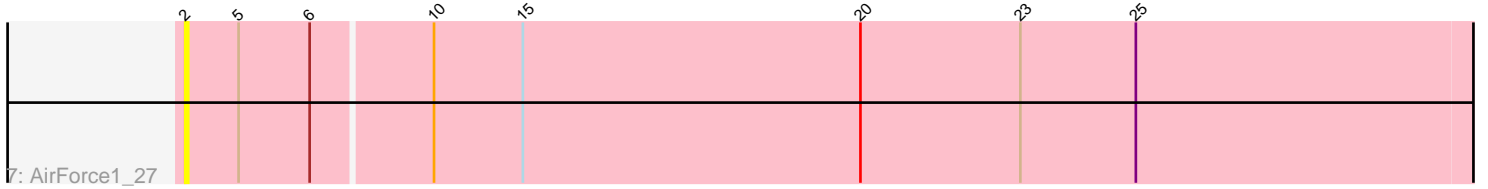
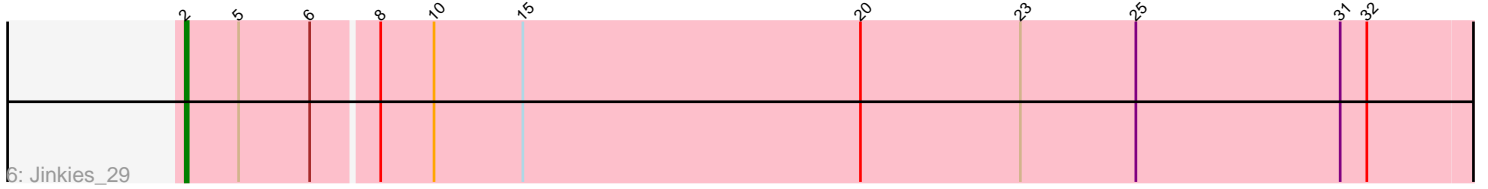
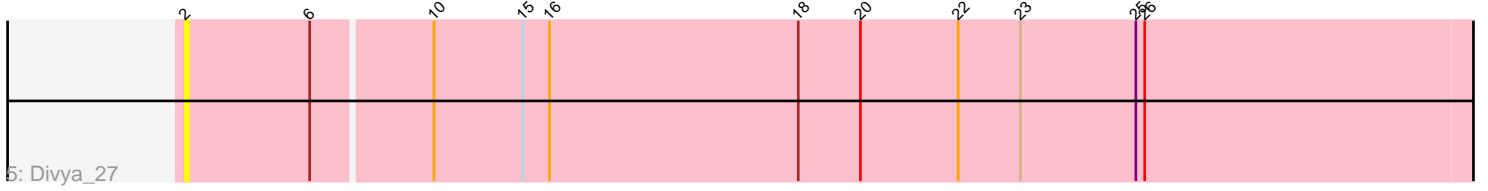
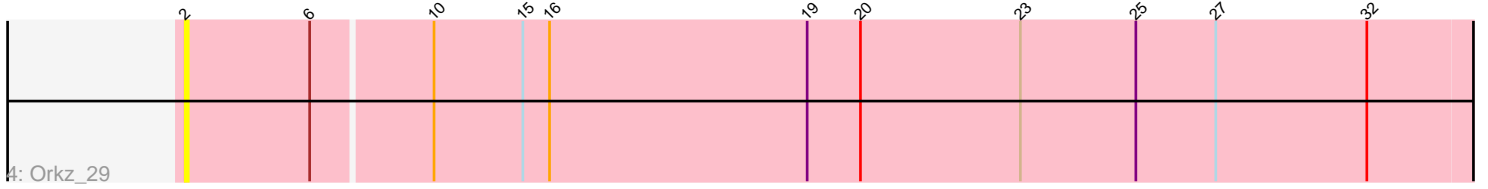
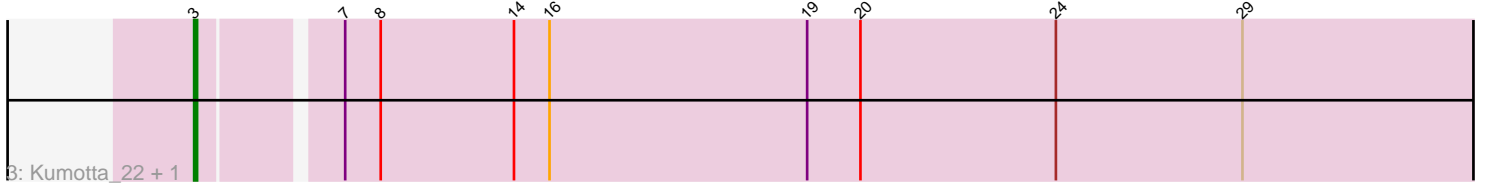
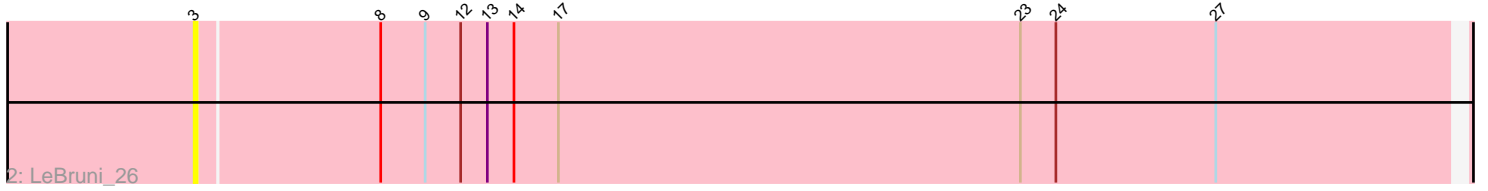
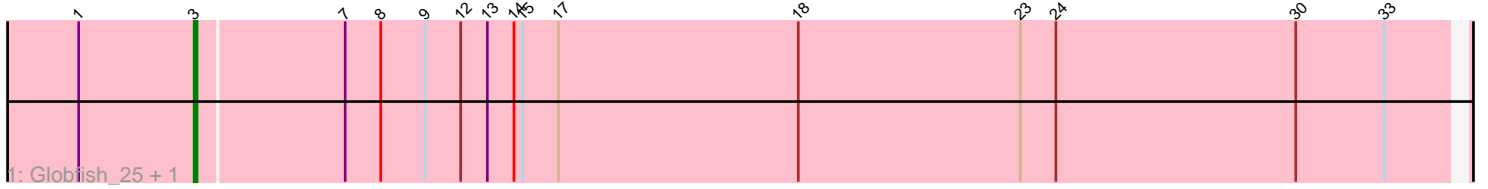


Pham 295292



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 295292 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295292 has 11 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Globfish\_25, SpicyFrank\_25
- Track 2 : LeBruni\_26
- Track 3 : Kumotta\_22, MargaretKali\_22
- Track 4 : Orkz\_29
- Track 5 : Divya\_27
- Track 6 : Jinkies\_29
- Track 7 : AirForce1\_27
- Track 8 : Bauer\_24, Zucker\_23

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

The start number called the most often in the published annotations is 3, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Globfish\_25, Kumotta\_22, LeBruni\_26, MargaretKali\_22, SpicyFrank\_25,

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

- 

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

- AirForce1\_27, Bauer\_24, Divya\_27, Jinkies\_29, Orkz\_29, Zucker\_23,

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

Start 2:

- Found in 4 of 11 ( 36.4% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AirForce1\_27 (FL), Divya\_27 (FL), Jinkies\_29 (FL), Orkz\_29 (FL),

Start 3:

- Found in 5 of 11 ( 45.5% ) of genes in pham

- Manual Annotations of this start: 4 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Globfish\_25 (AY), Kumotta\_22 (FB), LeBruni\_26 (AY), MargaretKali\_22 (FB), SpicyFrank\_25 (AY),

Start 4:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bauer\_24 (FN), Zucker\_23 (FN),

### **Summary by clusters:**

There are 4 clusters represented in this pham: AY, FB, FL, FN,

Info for manual annotations of cluster AY:

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

Info for manual annotations of cluster FB:

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

Info for manual annotations of cluster FL:

- Start number 2 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster FN:

- Start number 4 was manually annotated 2 times for cluster FN.

### **Gene Information:**

Gene: AirForce1\_27 Start: 20939, Stop: 21397, Start Num: 2

Candidate Starts for AirForce1\_27:

(Start: 2 @20939 has 1 MA's), (5, 20957), (6, 20981), (10, 21020), (15, 21050), (20, 21164), (23, 21218), (25, 21257),

Gene: Bauer\_24 Start: 18620, Stop: 19075, Start Num: 4

Candidate Starts for Bauer\_24:

(Start: 4 @18620 has 2 MA's), (8, 18680), (11, 18704), (21, 18845), (22, 18875), (23, 18896), (28, 18968), (29, 18971), (30, 18989),

Gene: Divya\_27 Start: 20088, Stop: 20546, Start Num: 2

Candidate Starts for Divya\_27:

(Start: 2 @20088 has 1 MA's), (6, 20130), (10, 20169), (15, 20199), (16, 20208), (18, 20292), (20, 20313), (22, 20346), (23, 20367), (25, 20406), (26, 20409),

Gene: Globfish\_25 Start: 19120, Stop: 19575, Start Num: 3

Candidate Starts for Globfish\_25:

(1, 19081), (Start: 3 @19120 has 4 MA's), (7, 19168), (8, 19180), (9, 19195), (12, 19207), (13, 19216), (14, 19225), (15, 19228), (17, 19240), (18, 19321), (23, 19396), (24, 19408), (30, 19489), (33, 19519),

Gene: Jinkies\_29 Start: 23425, Stop: 23883, Start Num: 2

Candidate Starts for Jinkies\_29:

(Start: 2 @23425 has 1 MA's), (5, 23443), (6, 23467), (8, 23488), (10, 23506), (15, 23536), (20, 23650), (23, 23704), (25, 23743), (31, 23812), (32, 23821),

Gene: Kumotta\_22 Start: 17606, Stop: 18061, Start Num: 3

Candidate Starts for Kumotta\_22:

(Start: 3 @17606 has 4 MA's), (7, 17648), (8, 17660), (14, 17705), (16, 17717), (19, 17804), (20, 17822), (24, 17888), (29, 17951),

Gene: LeBruni\_26 Start: 18847, Stop: 19302, Start Num: 3

Candidate Starts for LeBruni\_26:

(Start: 3 @18847 has 4 MA's), (8, 18907), (9, 18922), (12, 18934), (13, 18943), (14, 18952), (17, 18967), (23, 19123), (24, 19135), (27, 19189),

Gene: MargaretKali\_22 Start: 17241, Stop: 17696, Start Num: 3

Candidate Starts for MargaretKali\_22:

(Start: 3 @17241 has 4 MA's), (7, 17283), (8, 17295), (14, 17340), (16, 17352), (19, 17439), (20, 17457), (24, 17523), (29, 17586),

Gene: Orkz\_29 Start: 20184, Stop: 20642, Start Num: 2

Candidate Starts for Orkz\_29:

(Start: 2 @20184 has 1 MA's), (6, 20226), (10, 20265), (15, 20295), (16, 20304), (19, 20391), (20, 20409), (23, 20463), (25, 20502), (27, 20529), (32, 20580),

Gene: SpicyFrank\_25 Start: 19121, Stop: 19576, Start Num: 3

Candidate Starts for SpicyFrank\_25:

(1, 19082), (Start: 3 @19121 has 4 MA's), (7, 19169), (8, 19181), (9, 19196), (12, 19208), (13, 19217), (14, 19226), (15, 19229), (17, 19241), (18, 19322), (23, 19397), (24, 19409), (30, 19490), (33, 19520),

Gene: Zucker\_23 Start: 17933, Stop: 18388, Start Num: 4

Candidate Starts for Zucker\_23:

(Start: 4 @17933 has 2 MA's), (8, 17993), (11, 18017), (21, 18158), (22, 18188), (23, 18209), (28, 18281), (29, 18284), (30, 18302),