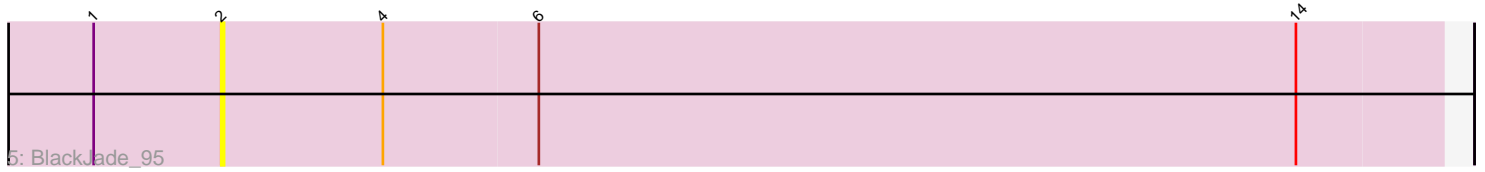
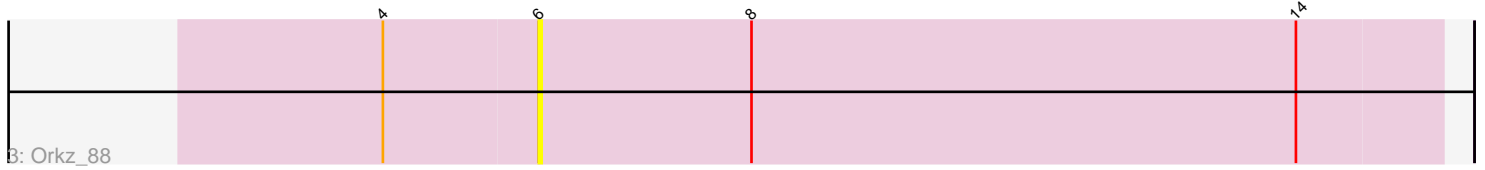
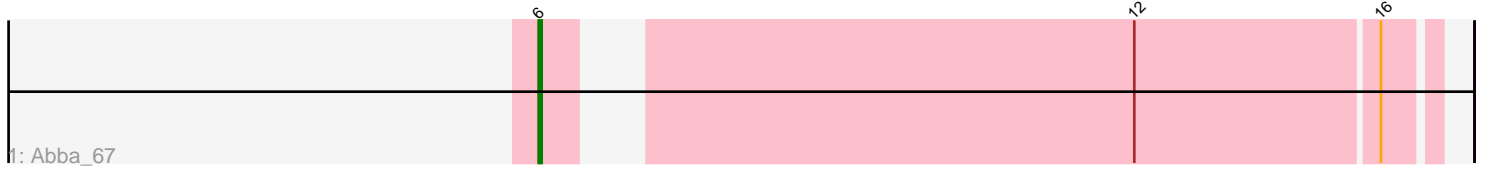


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 295227 Report

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

Pham number 295227 has 13 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Abba\_67
- Track 2 : SunnyJune\_88, AirForce1\_86, Jinkies\_84
- Track 3 : Orkz\_88
- Track 4 : Gooberta\_77, Music\_81, GoldDust\_76
- Track 5 : BlackJade\_95
- Track 6 : Vibaki\_78
- Track 7 : Vitus\_81
- Track 8 : Hirko\_79
- Track 9 : Divya\_87

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

The start number called the most often in the published annotations is 6, it was called in 6 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abba\_67, AirForce1\_86, Divya\_87, GoldDust\_76, Gooberta\_77, Hirko\_79, Jinkies\_84, Music\_81, Orkz\_88, SunnyJune\_88, Vibaki\_78, Vitus\_81,

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

- BlackJade\_95,

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

- 

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

Start 2:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlackJade\_95 (FL),

Start 6:

- Found in 13 of 13 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 6 of 6
- Called 92.3% of time when present
- Phage (with cluster) where this start called: Abba\_67 (AO3), AirForce1\_86 (FL), Divya\_87 (FL), GoldDust\_76 (FL), Gooberta\_77 (FL), Hirko\_79 (FL), Jinkies\_84 (FL), Music\_81 (FL), Orkz\_88 (FL), SunnyJune\_88 (FL), Vibaki\_78 (FL), Vitus\_81 (FL),

### **Summary by clusters:**

There are 2 clusters represented in this pham: AO3, FL,

Info for manual annotations of cluster AO3:

- Start number 6 was manually annotated 1 time for cluster AO3.

Info for manual annotations of cluster FL:

- Start number 6 was manually annotated 5 times for cluster FL.

### **Gene Information:**

Gene: Abba\_67 Start: 42825, Stop: 42538, Start Num: 6

Candidate Starts for Abba\_67:

(Start: 6 @42825 has 6 MA's), (12, 42639), (16, 42555),

Gene: AirForce1\_86 Start: 47421, Stop: 47104, Start Num: 6

Candidate Starts for AirForce1\_86:

(1, 47577), (4, 47475), (Start: 6 @47421 has 6 MA's), (14, 47154),

Gene: BlackJade\_95 Start: 49180, Stop: 48752, Start Num: 2

Candidate Starts for BlackJade\_95:

(1, 49225), (2, 49180), (4, 49123), (Start: 6 @49069 has 6 MA's), (14, 48802),

Gene: Divya\_87 Start: 47623, Stop: 47318, Start Num: 6

Candidate Starts for Divya\_87:

(Start: 6 @47623 has 6 MA's), (7, 47596), (9, 47554), (13, 47395), (14, 47368),

Gene: GoldDust\_76 Start: 48481, Stop: 48173, Start Num: 6

Candidate Starts for GoldDust\_76:

(Start: 6 @48481 has 6 MA's), (10, 48340), (11, 48310), (15, 48211), (17, 48196),

Gene: Gooberta\_77 Start: 49208, Stop: 48900, Start Num: 6

Candidate Starts for Gooberta\_77:

(Start: 6 @49208 has 6 MA's), (10, 49067), (11, 49037), (15, 48938), (17, 48923),

Gene: Hirko\_79 Start: 48513, Stop: 48205, Start Num: 6

Candidate Starts for Hirko\_79:

(Start: 6 @48513 has 6 MA's),

Gene: Jinkies\_84 Start: 48737, Stop: 48420, Start Num: 6

Candidate Starts for Jinkies\_84:

(1, 48893), (4, 48791), (Start: 6 @48737 has 6 MA's), (14, 48470),

Gene: Music\_81 Start: 49006, Stop: 48698, Start Num: 6

Candidate Starts for Music\_81:

(Start: 6 @49006 has 6 MA's), (10, 48865), (11, 48835), (15, 48736), (17, 48721),

Gene: Orkz\_88 Start: 46496, Stop: 46179, Start Num: 6

Candidate Starts for Orkz\_88:

(4, 46550), (Start: 6 @46496 has 6 MA's), (8, 46421), (14, 46229),

Gene: SunnyJune\_88 Start: 47606, Stop: 47289, Start Num: 6

Candidate Starts for SunnyJune\_88:

(1, 47762), (4, 47660), (Start: 6 @47606 has 6 MA's), (14, 47339),

Gene: Vibaki\_78 Start: 47924, Stop: 47616, Start Num: 6

Candidate Starts for Vibaki\_78:

(Start: 6 @47924 has 6 MA's), (10, 47783), (11, 47753), (15, 47654), (17, 47639),

Gene: Vitus\_81 Start: 47279, Stop: 46962, Start Num: 6

Candidate Starts for Vitus\_81:

(3, 47342), (5, 47330), (Start: 6 @47279 has 6 MA's), (10, 47132), (14, 47024),