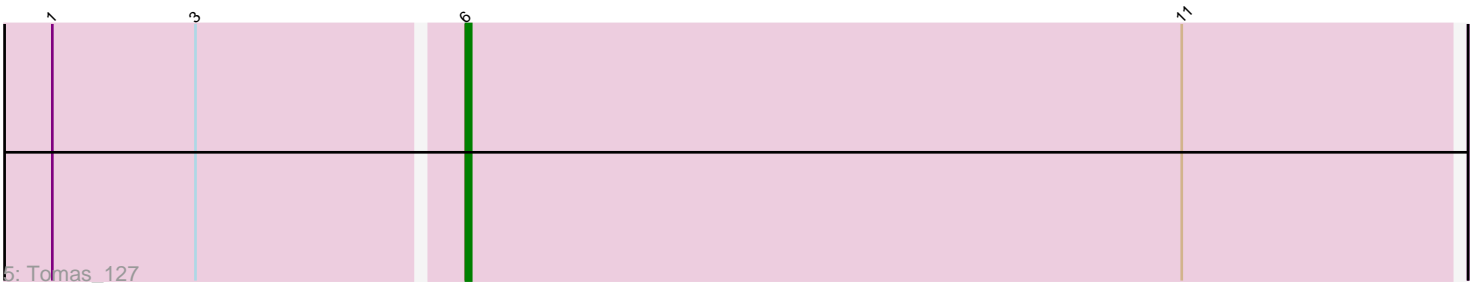
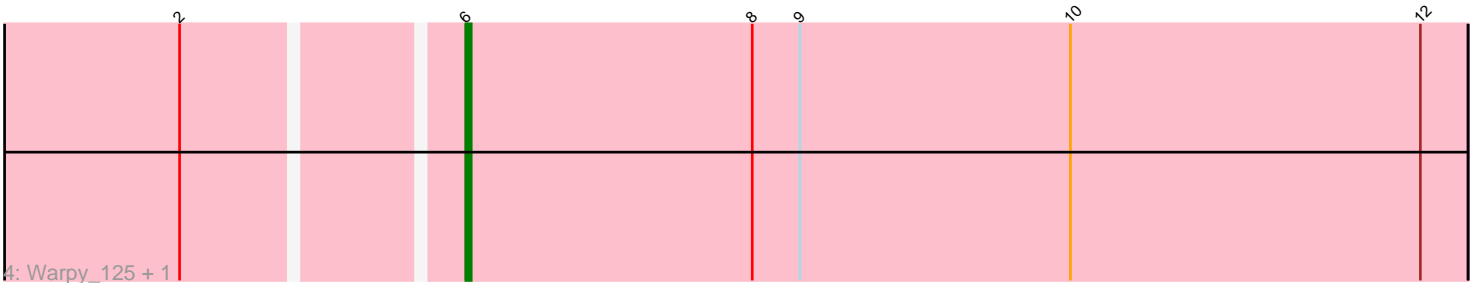
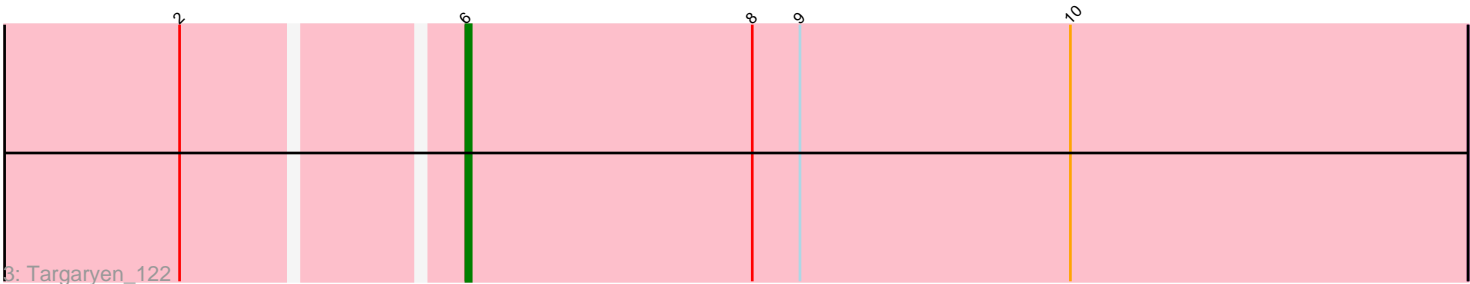
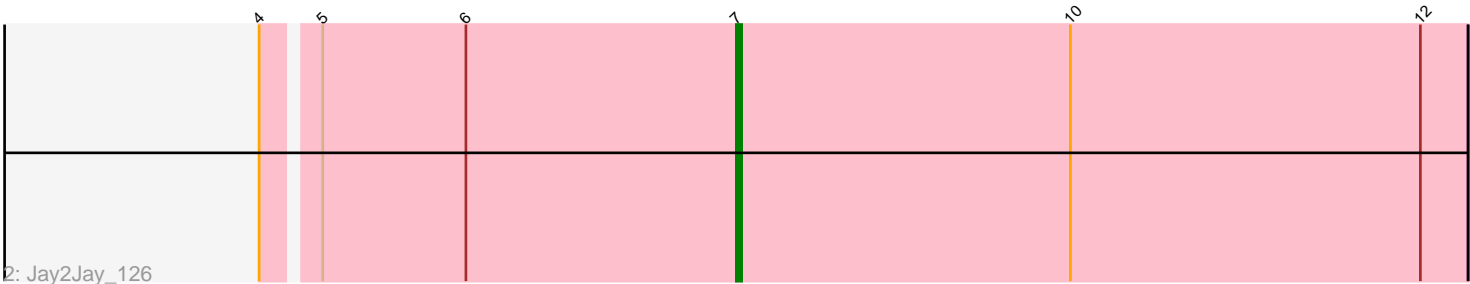
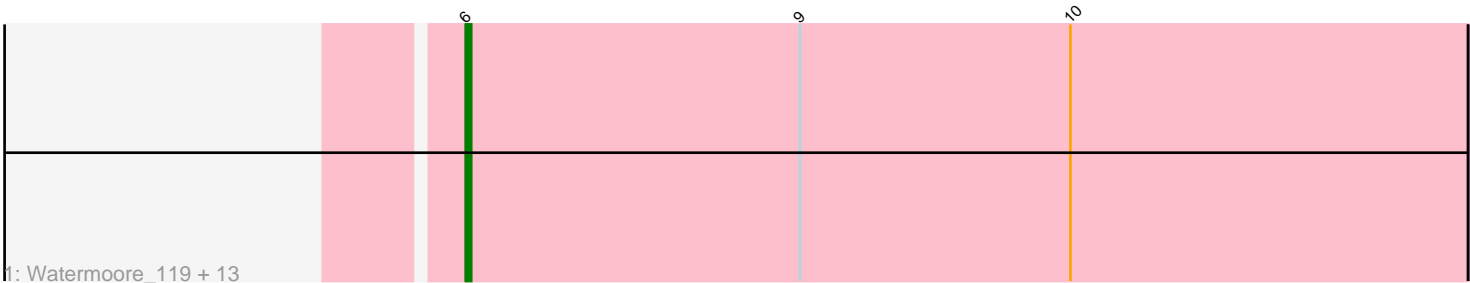


Pham 5422



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 5422 Report

This analysis was run 04/28/24 on database version 559.

Pham number 5422 has 19 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Watermoore\_119, BlueOtter\_123, Larnav\_127, Lululemon\_122, Leo04\_121, Cursive\_118, Cross\_120, Sushi23\_119, Samisti12\_121, EGole\_123, PacManQ\_122, Pepperwood\_120, Peebs\_118, HangryHippo\_123
- Track 2 : Jay2Jay\_126
- Track 3 : Targaryen\_122
- Track 4 : Warpy\_125, Evy\_119
- Track 5 : Tomas\_127

### ***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 13 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BlueOtter\_123, Cross\_120, Cursive\_118, EGole\_123, Evy\_119, HangryHippo\_123, Larnav\_127, Leo04\_121, Lululemon\_122, PacManQ\_122, Peebs\_118, Pepperwood\_120, Samisti12\_121, Sushi23\_119, Targaryen\_122, Tomas\_127, Warpy\_125, Watermoore\_119,

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

- Jay2Jay\_126,

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

- 

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

Start 6:

- Found in 19 of 19 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 13 of 14
- Called 94.7% of time when present
- Phage (with cluster) where this start called: BlueOtter\_123 (BE1), Cross\_120 (BE1), Cursive\_118 (BE1), EGole\_123 (BE1), Evy\_119 (BE1), HangryHippo\_123 (BE1), Larnav\_127 (BE1), Leo04\_121 (BE1), Lululemon\_122 (BE1), PacManQ\_122 (BE1),

Peebs\_118 (BE1), Pepperwood\_120 (BE1), Samisti12\_121 (BE1), Sushi23\_119 (BE1), Targaryen\_122 (BE1), Tomas\_127 (BE2), Warpy\_125 (BE1), Watermoore\_119 (BE1),

Start 7:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jay2Jay\_126 (BE1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: BE2, BE1,

Info for manual annotations of cluster BE1:

- Start number 6 was manually annotated 12 times for cluster BE1.
- Start number 7 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 6 was manually annotated 1 time for cluster BE2.

### **Gene Information:**

Gene: BlueOtter\_123 Start: 80990, Stop: 81178, Start Num: 6

Candidate Starts for BlueOtter\_123:

(Start: 6 @80990 has 13 MA's), (9, 81053), (10, 81104),

Gene: Cross\_120 Start: 80991, Stop: 81179, Start Num: 6

Candidate Starts for Cross\_120:

(Start: 6 @80991 has 13 MA's), (9, 81054), (10, 81105),

Gene: Cursive\_118 Start: 79200, Stop: 79388, Start Num: 6

Candidate Starts for Cursive\_118:

(Start: 6 @79200 has 13 MA's), (9, 79263), (10, 79314),

Gene: EGole\_123 Start: 81835, Stop: 82023, Start Num: 6

Candidate Starts for EGole\_123:

(Start: 6 @81835 has 13 MA's), (9, 81898), (10, 81949),

Gene: Evy\_119 Start: 81088, Stop: 81276, Start Num: 6

Candidate Starts for Evy\_119:

(2, 81040), (Start: 6 @81088 has 13 MA's), (8, 81142), (9, 81151), (10, 81202), (12, 81268),

Gene: HangryHippo\_123 Start: 80990, Stop: 81178, Start Num: 6

Candidate Starts for HangryHippo\_123:

(Start: 6 @80990 has 13 MA's), (9, 81053), (10, 81104),

Gene: Jay2Jay\_126 Start: 81979, Stop: 82116, Start Num: 7

Candidate Starts for Jay2Jay\_126:

(4, 81892), (5, 81901), (Start: 6 @81928 has 13 MA's), (Start: 7 @81979 has 1 MA's), (10, 82042), (12, 82108),

Gene: Larnav\_127 Start: 80974, Stop: 81162, Start Num: 6  
Candidate Starts for Larnav\_127:  
(Start: 6 @80974 has 13 MA's), (9, 81037), (10, 81088),

Gene: Leo04\_121 Start: 81490, Stop: 81678, Start Num: 6  
Candidate Starts for Leo04\_121:  
(Start: 6 @81490 has 13 MA's), (9, 81553), (10, 81604),

Gene: Lululemon\_122 Start: 80371, Stop: 80559, Start Num: 6  
Candidate Starts for Lululemon\_122:  
(Start: 6 @80371 has 13 MA's), (9, 80434), (10, 80485),

Gene: PacManQ\_122 Start: 80371, Stop: 80559, Start Num: 6  
Candidate Starts for PacManQ\_122:  
(Start: 6 @80371 has 13 MA's), (9, 80434), (10, 80485),

Gene: Peebs\_118 Start: 80787, Stop: 80975, Start Num: 6  
Candidate Starts for Peebs\_118:  
(Start: 6 @80787 has 13 MA's), (9, 80850), (10, 80901),

Gene: Pepperwood\_120 Start: 80918, Stop: 81106, Start Num: 6  
Candidate Starts for Pepperwood\_120:  
(Start: 6 @80918 has 13 MA's), (9, 80981), (10, 81032),

Gene: Samisti12\_121 Start: 82166, Stop: 82354, Start Num: 6  
Candidate Starts for Samisti12\_121:  
(Start: 6 @82166 has 13 MA's), (9, 82229), (10, 82280),

Gene: Sushi23\_119 Start: 81143, Stop: 81331, Start Num: 6  
Candidate Starts for Sushi23\_119:  
(Start: 6 @81143 has 13 MA's), (9, 81206), (10, 81257),

Gene: Targaryen\_122 Start: 82068, Stop: 82256, Start Num: 6  
Candidate Starts for Targaryen\_122:  
(2, 82020), (Start: 6 @82068 has 13 MA's), (8, 82122), (9, 82131), (10, 82182),

Gene: Tomas\_127 Start: 82850, Stop: 83035, Start Num: 6  
Candidate Starts for Tomas\_127:  
(1, 82775), (3, 82802), (Start: 6 @82850 has 13 MA's), (11, 82985),

Gene: Warpy\_125 Start: 81580, Stop: 81768, Start Num: 6  
Candidate Starts for Warpy\_125:  
(2, 81532), (Start: 6 @81580 has 13 MA's), (8, 81634), (9, 81643), (10, 81694), (12, 81760),

Gene: Watermoore\_119 Start: 81562, Stop: 81750, Start Num: 6  
Candidate Starts for Watermoore\_119:  
(Start: 6 @81562 has 13 MA's), (9, 81625), (10, 81676),