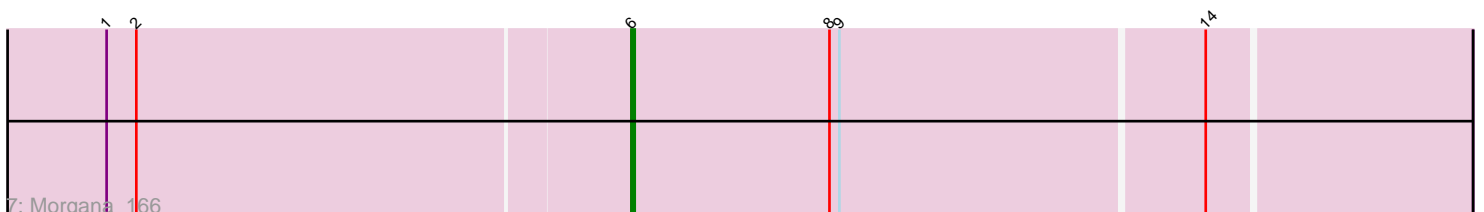
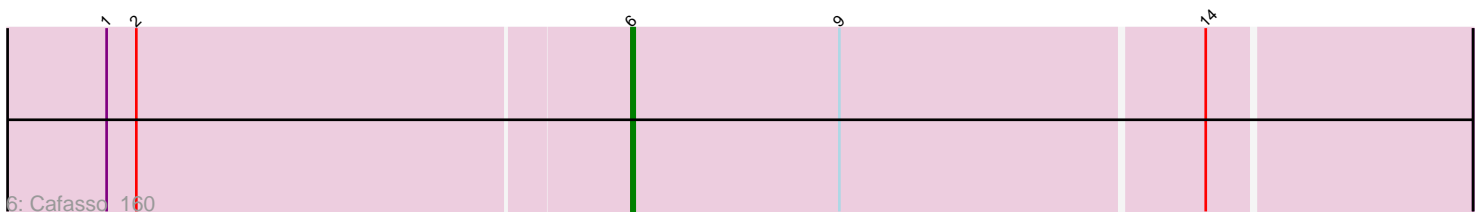
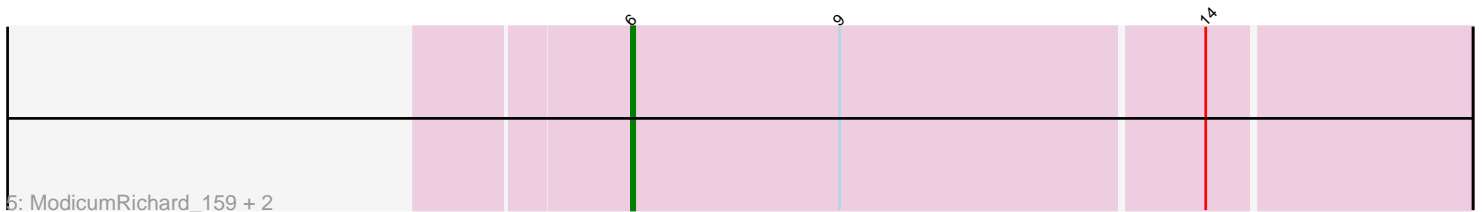
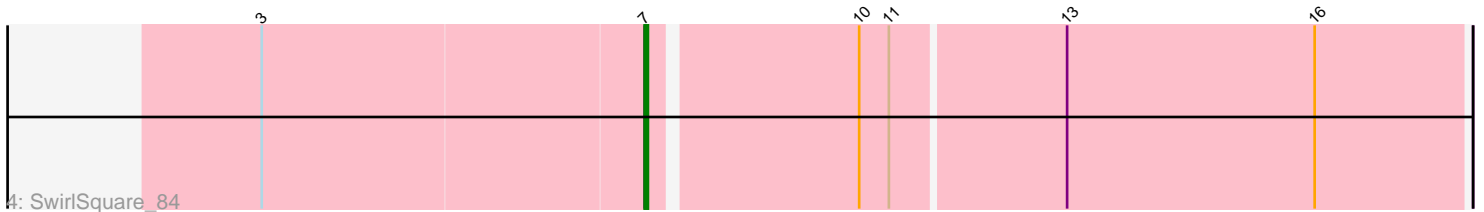
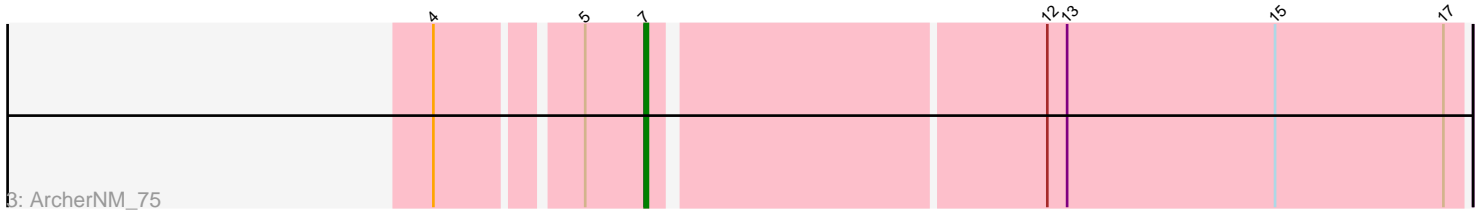
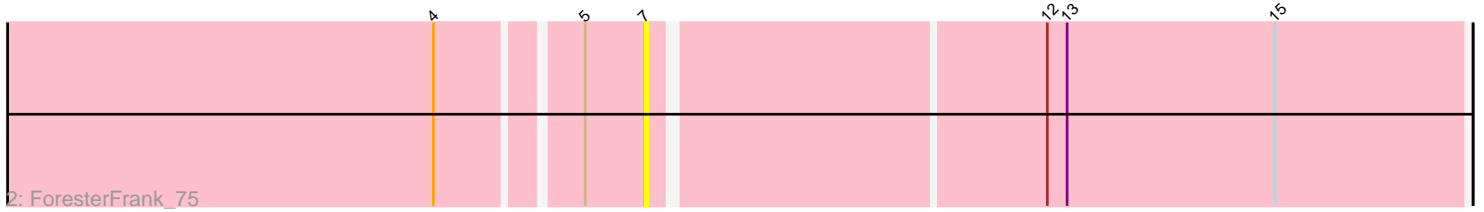
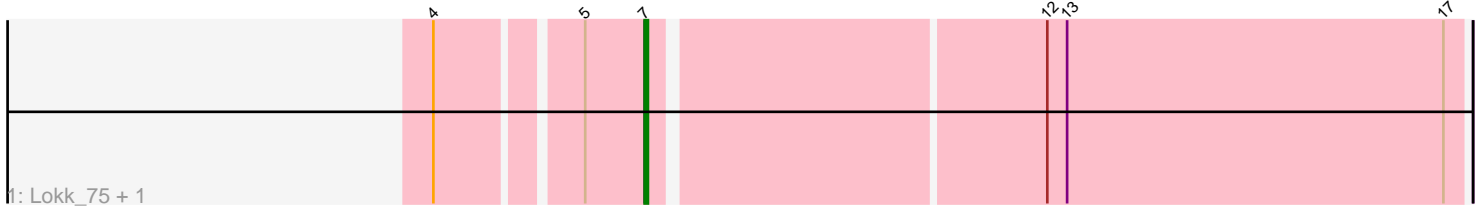


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 295309 Report

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

Pham number 295309 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Lokk\_75, BobSwaget\_74
- Track 2 : ForesterFrank\_75
- Track 3 : ArcherNM\_75
- Track 4 : SwirlSquare\_84
- Track 5 : ModicumRichard\_159, Aleemily\_158, ObLaDi\_160
- Track 6 : Cafasso\_160
- Track 7 : Morgana\_166

### ***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 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aleemily\_158, Cafasso\_160, ModicumRichard\_159, Morgana\_166, ObLaDi\_160,

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

- 

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

- ArcherNM\_75, BobSwaget\_74, ForesterFrank\_75, Lokk\_75, SwirlSquare\_84,

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

Start 6:

- Found in 5 of 10 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 5 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aleemily\_158 (DZ), Cafasso\_160 (DZ), ModicumRichard\_159 (DZ), Morgana\_166 (DZ), ObLaDi\_160 (DZ),

Start 7:

- Found in 5 of 10 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 4 of 9

- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArcherNM\_75 (A2), BobSwaget\_74 (A2), ForesterFrank\_75 (A2), Lokk\_75 (A2), SwirlSquare\_84 (A2),

### **Summary by clusters:**

There are 2 clusters represented in this pham: A2, DZ,

Info for manual annotations of cluster A2:

- Start number 7 was manually annotated 4 times for cluster A2.

Info for manual annotations of cluster DZ:

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

### **Gene Information:**

Gene: Aleemily\_158 Start: 82918, Stop: 83166, Start Num: 6

Candidate Starts for Aleemily\_158:

(Start: 6 @82918 has 5 MA's), (9, 82981), (14, 83089),

Gene: ArcherNM\_75 Start: 46588, Stop: 46349, Start Num: 7

Candidate Starts for ArcherNM\_75:

(4, 46645), (5, 46606), (Start: 7 @46588 has 4 MA's), (12, 46474), (13, 46468), (15, 46405), (17, 46354),

Gene: BobSwaget\_74 Start: 44682, Stop: 44443, Start Num: 7

Candidate Starts for BobSwaget\_74:

(4, 44739), (5, 44700), (Start: 7 @44682 has 4 MA's), (12, 44568), (13, 44562), (17, 44448),

Gene: Cafasso\_160 Start: 83344, Stop: 83592, Start Num: 6

Candidate Starts for Cafasso\_160:

(1, 83188), (2, 83197), (Start: 6 @83344 has 5 MA's), (9, 83407), (14, 83515),

Gene: ForesterFrank\_75 Start: 46820, Stop: 46581, Start Num: 7

Candidate Starts for ForesterFrank\_75:

(4, 46877), (5, 46838), (Start: 7 @46820 has 4 MA's), (12, 46706), (13, 46700), (15, 46637),

Gene: Lokk\_75 Start: 45306, Stop: 45067, Start Num: 7

Candidate Starts for Lokk\_75:

(4, 45363), (5, 45324), (Start: 7 @45306 has 4 MA's), (12, 45192), (13, 45186), (17, 45072),

Gene: ModicumRichard\_159 Start: 83476, Stop: 83724, Start Num: 6

Candidate Starts for ModicumRichard\_159:

(Start: 6 @83476 has 5 MA's), (9, 83539), (14, 83647),

Gene: Morgana\_166 Start: 83937, Stop: 84185, Start Num: 6

Candidate Starts for Morgana\_166:

(1, 83781), (2, 83790), (Start: 6 @83937 has 5 MA's), (8, 83997), (9, 84000), (14, 84108),

Gene: ObLaDi\_160 Start: 83475, Stop: 83723, Start Num: 6

Candidate Starts for ObLaDi\_160:

(Start: 6 @83475 has 5 MA's), (9, 83538), (14, 83646),

Gene: SwirlSquare\_84 Start: 46045, Stop: 45806, Start Num: 7

Candidate Starts for SwirlSquare\_84:

(3, 46159), (Start: 7 @46045 has 4 MA's), (10, 45985), (11, 45976), (13, 45925), (16, 45850),