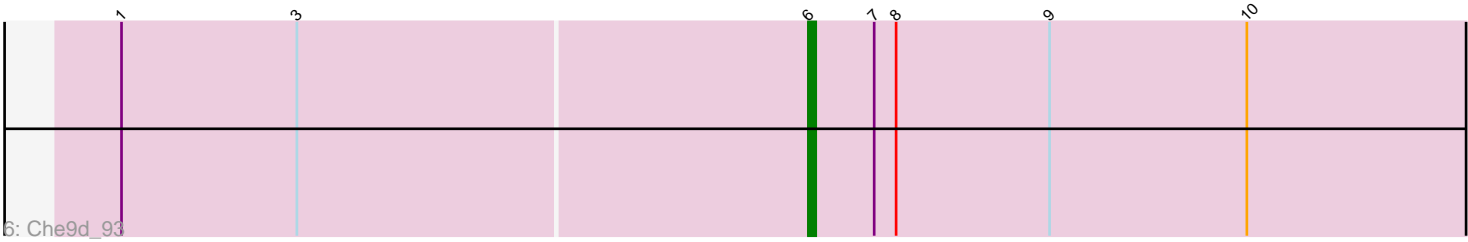
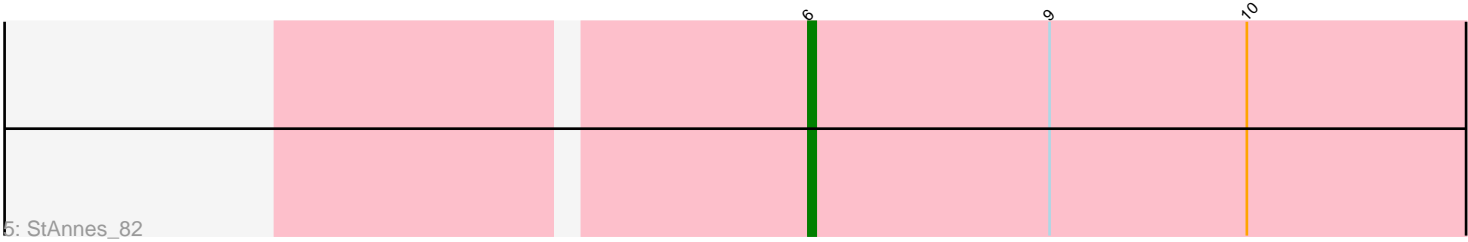
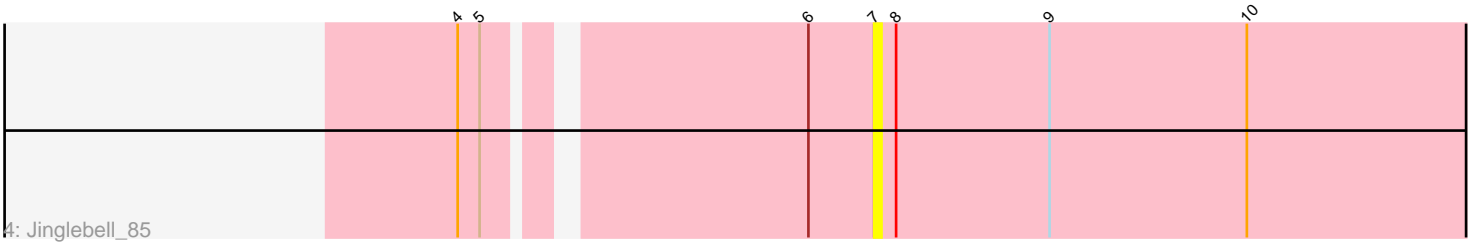
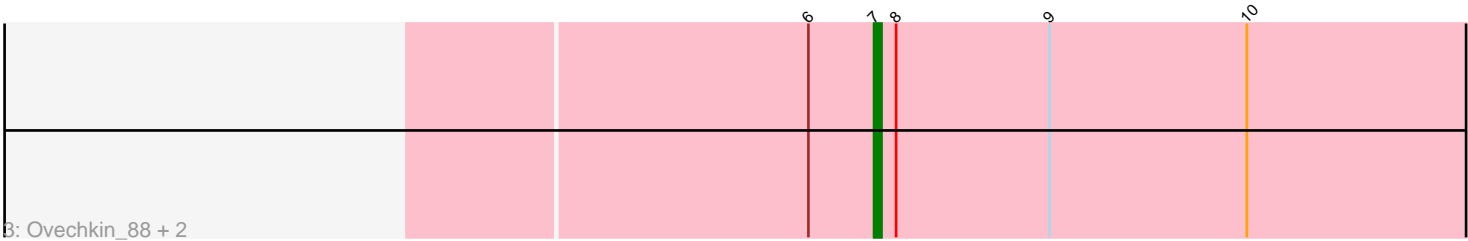
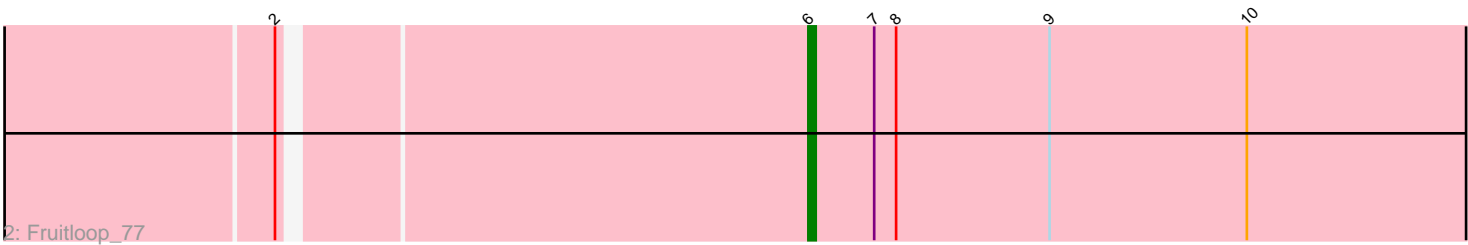
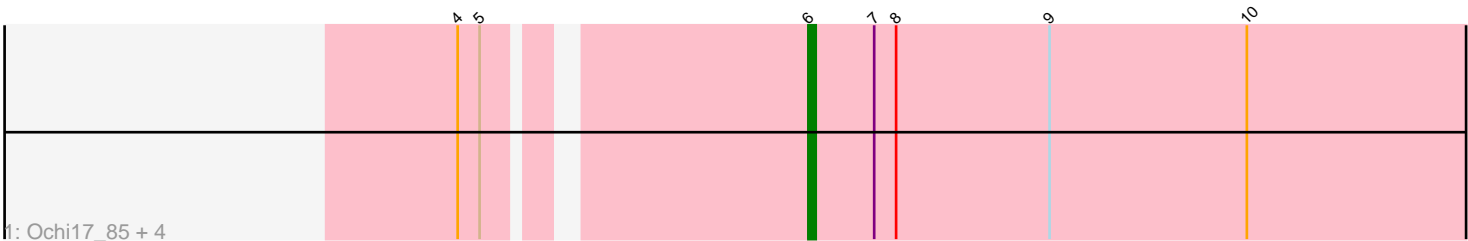


Pham 106783



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 106783 Report

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

Pham number 106783 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Ochi17\_85, Sebastian\_87, Llama\_86, Modragons\_84, OfUltron\_87
- Track 2 : Fruitloop\_77
- Track 3 : Ovechkin\_88, SassyB\_72, PopTart\_72
- Track 4 : Jinglebell\_85
- Track 5 : StAnnes\_82
- Track 6 : Che9d\_93

### ***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 8 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Che9d\_93, Fruitloop\_77, Llama\_86, Modragons\_84, Ochi17\_85, OfUltron\_87, Sebastian\_87, StAnnes\_82,

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

- Jinglebell\_85, Ovechkin\_88, PopTart\_72, SassyB\_72,

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

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

Start 6:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 8 of 11
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Che9d\_93 (F2), Fruitloop\_77 (F1), Llama\_86 (F1), Modragons\_84 (F1), Ochi17\_85 (F1), OfUltron\_87 (F1), Sebastian\_87 (F1), StAnnes\_82 (F1),

Start 7:

- Found in 11 of 12 ( 91.7% ) of genes in pham

- Manual Annotations of this start: 3 of 11
- Called 36.4% of time when present
- Phage (with cluster) where this start called: Jinglebell\_85 (F1), Ovechkin\_88 (F1), PopTart\_72 (F1), SassyB\_72 (F1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: F1, F2,

Info for manual annotations of cluster F1:

- Start number 6 was manually annotated 7 times for cluster F1.
- Start number 7 was manually annotated 3 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 6 was manually annotated 1 time for cluster F2.

### **Gene Information:**

Gene: Che9d\_93 Start: 49437, Stop: 49586, Start Num: 6

Candidate Starts for Che9d\_93:

(1, 49344), (3, 49368), (Start: 6 @49437 has 8 MA's), (Start: 7 @49446 has 3 MA's), (8, 49449), (9, 49470), (10, 49497),

Gene: Fruitloop\_77 Start: 48599, Stop: 48748, Start Num: 6

Candidate Starts for Fruitloop\_77:

(2, 48530), (Start: 6 @48599 has 8 MA's), (Start: 7 @48608 has 3 MA's), (8, 48611), (9, 48632), (10, 48659),

Gene: Jinglebell\_85 Start: 49491, Stop: 49631, Start Num: 7

Candidate Starts for Jinglebell\_85:

(4, 49440), (5, 49443), (Start: 6 @49482 has 8 MA's), (Start: 7 @49491 has 3 MA's), (8, 49494), (9, 49515), (10, 49542),

Gene: Llama\_86 Start: 49338, Stop: 49487, Start Num: 6

Candidate Starts for Llama\_86:

(4, 49296), (5, 49299), (Start: 6 @49338 has 8 MA's), (Start: 7 @49347 has 3 MA's), (8, 49350), (9, 49371), (10, 49398),

Gene: Modragons\_84 Start: 49326, Stop: 49475, Start Num: 6

Candidate Starts for Modragons\_84:

(4, 49284), (5, 49287), (Start: 6 @49326 has 8 MA's), (Start: 7 @49335 has 3 MA's), (8, 49338), (9, 49359), (10, 49386),

Gene: Ochi17\_85 Start: 48933, Stop: 49082, Start Num: 6

Candidate Starts for Ochi17\_85:

(4, 48891), (5, 48894), (Start: 6 @48933 has 8 MA's), (Start: 7 @48942 has 3 MA's), (8, 48945), (9, 48966), (10, 48993),

Gene: OfUltron\_87 Start: 49482, Stop: 49631, Start Num: 6

Candidate Starts for OfUltron\_87:

(4, 49440), (5, 49443), (Start: 6 @49482 has 8 MA's), (Start: 7 @49491 has 3 MA's), (8, 49494), (9, 49515), (10, 49542),

Gene: Ovechkin\_88 Start: 50615, Stop: 50755, Start Num: 7

Candidate Starts for Ovechkin\_88:

(Start: 6 @50606 has 8 MA's), (Start: 7 @50615 has 3 MA's), (8, 50618), (9, 50639), (10, 50666),

Gene: PopTart\_72 Start: 45817, Stop: 45957, Start Num: 7

Candidate Starts for PopTart\_72:

(Start: 6 @45808 has 8 MA's), (Start: 7 @45817 has 3 MA's), (8, 45820), (9, 45841), (10, 45868),

Gene: SassyB\_72 Start: 45817, Stop: 45957, Start Num: 7

Candidate Starts for SassyB\_72:

(Start: 6 @45808 has 8 MA's), (Start: 7 @45817 has 3 MA's), (8, 45820), (9, 45841), (10, 45868),

Gene: Seabastian\_87 Start: 49483, Stop: 49632, Start Num: 6

Candidate Starts for Seabastian\_87:

(4, 49441), (5, 49444), (Start: 6 @49483 has 8 MA's), (Start: 7 @49492 has 3 MA's), (8, 49495), (9, 49516), (10, 49543),

Gene: StAnnes\_82 Start: 49964, Stop: 50116, Start Num: 6

Candidate Starts for StAnnes\_82:

(Start: 6 @49964 has 8 MA's), (9, 49997), (10, 50024),