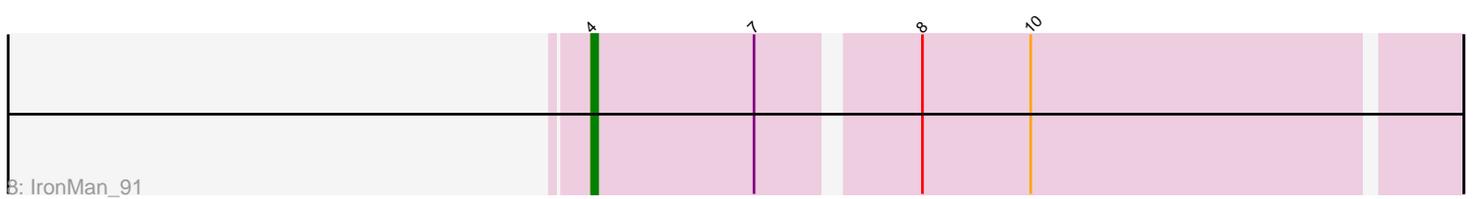
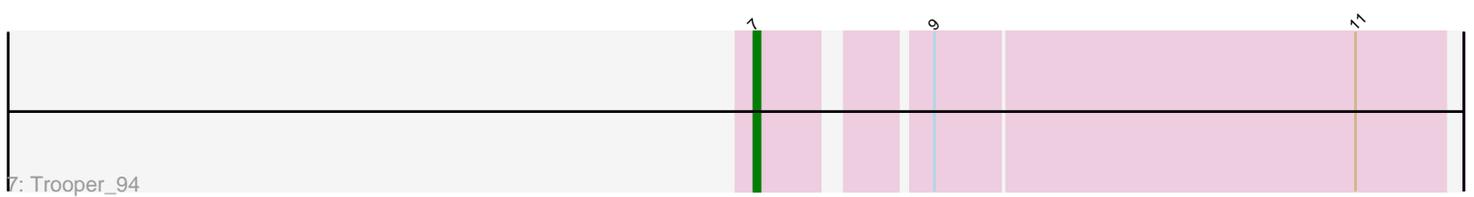
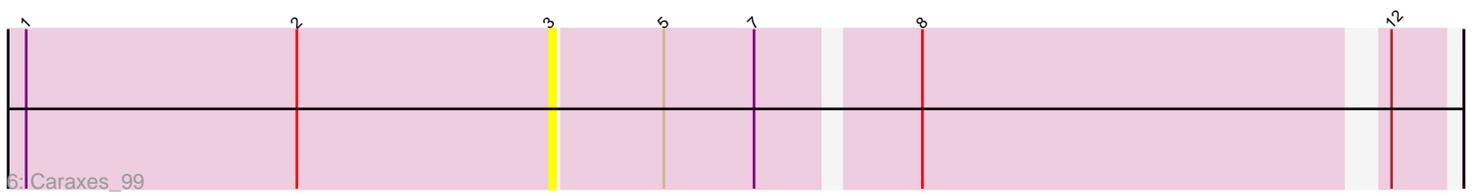
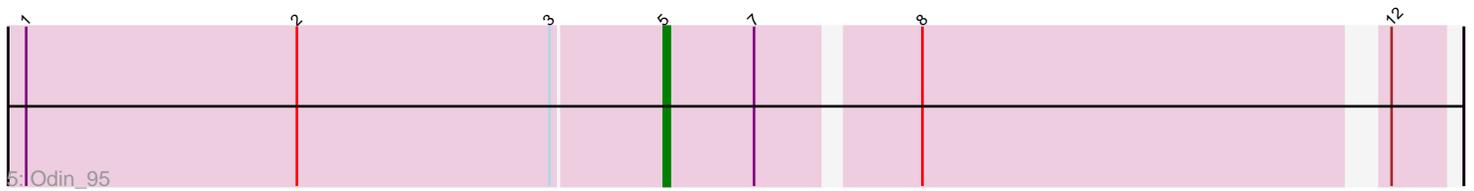
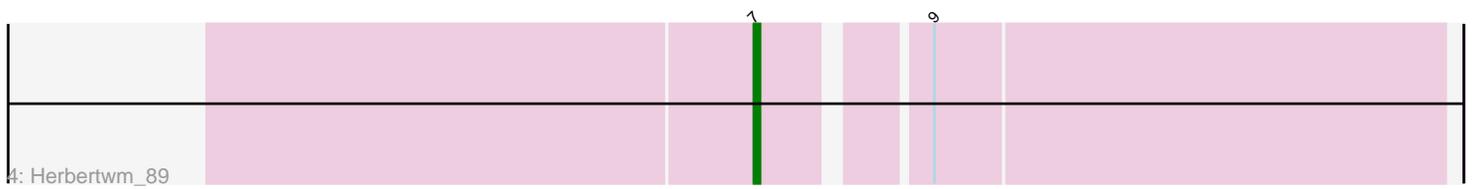
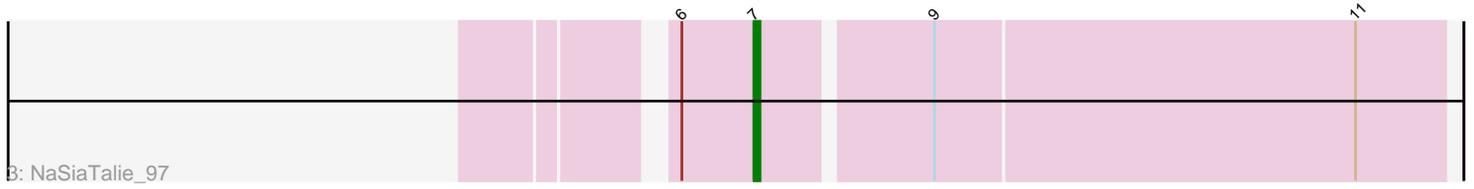
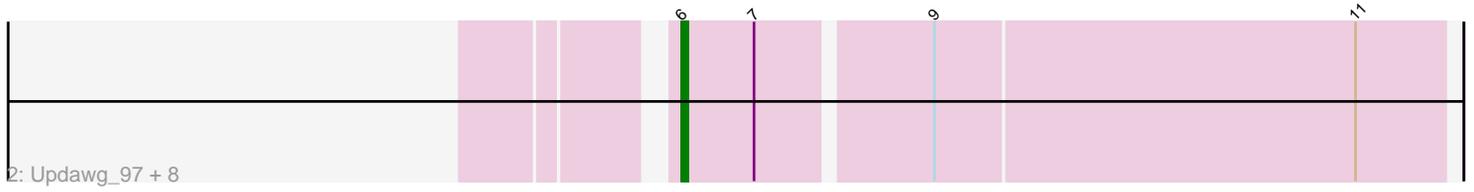
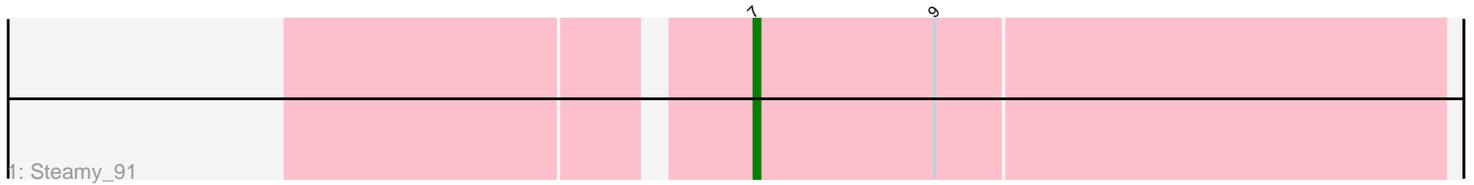


# Pham 284274



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 284274 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284274 has 16 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Steamy\_91
- Track 2 : Updawg\_97, Centaur\_97, WideWale\_97, Gratitude\_94, Drake55\_96, Equemioh13\_96, Sknot\_97, Terrific\_98, MiculUcigas\_96
- Track 3 : NaSiaTalie\_97
- Track 4 : Herbertwm\_89
- Track 5 : Odin\_95
- Track 6 : Caraxes\_99
- Track 7 : Trooper\_94
- Track 8 : IronMan\_91

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

Genes that call this "Most Annotated" start:

- Centaur\_97, Drake55\_96, Equemioh13\_96, Gratitude\_94, MiculUcigas\_96, Sknot\_97, Terrific\_98, Updawg\_97, WideWale\_97,

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

- NaSiaTalie\_97,

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

- Caraxes\_99, Herbertwm\_89, IronMan\_91, Odin\_95, Steamy\_91, Trooper\_94,

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

Start 3:

- Found in 2 of 16 ( 12.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Caraxes\_99 (A2),

Start 4:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: IronMan\_91 (A2),

Start 5:

- Found in 2 of 16 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Odin\_95 (A2),

Start 6:

- Found in 10 of 16 ( 62.5% ) of genes in pham
- Manual Annotations of this start: 7 of 13
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Centaur\_97 (A2), Drake55\_96 (A2), Equemioh13\_96 (A2), Gratitude\_94 (A2), MiculUcigas\_96 (A2), Sknot\_97 (A2), Terrific\_98 (A2), Updawg\_97 (A2), WideWale\_97 (A2),

Start 7:

- Found in 16 of 16 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 4 of 13
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Herbertwm\_89 (A2), NaSiaTalie\_97 (A2), Steamy\_91 (A12), Trooper\_94 (A2),

### **Summary by clusters:**

There are 2 clusters represented in this pham: A2, A12,

Info for manual annotations of cluster A12:

- Start number 7 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A2:

- Start number 4 was manually annotated 1 time for cluster A2.
- Start number 5 was manually annotated 1 time for cluster A2.
- Start number 6 was manually annotated 7 times for cluster A2.
- Start number 7 was manually annotated 3 times for cluster A2.

### **Gene Information:**

Gene: Caraxes\_99 Start: 51295, Stop: 51158, Start Num: 3

Candidate Starts for Caraxes\_99:

(1, 51382), (2, 51337), (3, 51295), (Start: 5 @51277 has 1 MA's), (Start: 7 @51262 has 4 MA's), (8, 51238), (12, 51166),

Gene: Centaur\_97 Start: 51531, Stop: 51409, Start Num: 6

Candidate Starts for Centaur\_97:

(Start: 6 @51531 has 7 MA's), (Start: 7 @51519 has 4 MA's), (9, 51492), (11, 51423),

Gene: Drake55\_96 Start: 51249, Stop: 51127, Start Num: 6

Candidate Starts for Drake55\_96:

(Start: 6 @51249 has 7 MA's), (Start: 7 @51237 has 4 MA's), (9, 51210), (11, 51141),

Gene: Equemioh13\_96 Start: 51572, Stop: 51450, Start Num: 6

Candidate Starts for Equemioh13\_96:

(Start: 6 @51572 has 7 MA's), (Start: 7 @51560 has 4 MA's), (9, 51533), (11, 51464),

Gene: Gratitude\_94 Start: 51572, Stop: 51450, Start Num: 6

Candidate Starts for Gratitude\_94:

(Start: 6 @51572 has 7 MA's), (Start: 7 @51560 has 4 MA's), (9, 51533), (11, 51464),

Gene: Herbertwm\_89 Start: 50204, Stop: 50097, Start Num: 7

Candidate Starts for Herbertwm\_89:

(Start: 7 @50204 has 4 MA's), (9, 50180),

Gene: IronMan\_91 Start: 52058, Stop: 51921, Start Num: 4

Candidate Starts for IronMan\_91:

(Start: 4 @52058 has 1 MA's), (Start: 7 @52031 has 4 MA's), (8, 52007), (10, 51989),

Gene: MiculUcigas\_96 Start: 51290, Stop: 51168, Start Num: 6

Candidate Starts for MiculUcigas\_96:

(Start: 6 @51290 has 7 MA's), (Start: 7 @51278 has 4 MA's), (9, 51251), (11, 51182),

Gene: NaSiaTalie\_97 Start: 51439, Stop: 51329, Start Num: 7

Candidate Starts for NaSiaTalie\_97:

(Start: 6 @51451 has 7 MA's), (Start: 7 @51439 has 4 MA's), (9, 51412), (11, 51343),

Gene: Odin\_95 Start: 51188, Stop: 51069, Start Num: 5

Candidate Starts for Odin\_95:

(1, 51293), (2, 51248), (3, 51206), (Start: 5 @51188 has 1 MA's), (Start: 7 @51173 has 4 MA's), (8, 51149), (12, 51077),

Gene: Sknot\_97 Start: 51578, Stop: 51456, Start Num: 6

Candidate Starts for Sknot\_97:

(Start: 6 @51578 has 7 MA's), (Start: 7 @51566 has 4 MA's), (9, 51539), (11, 51470),

Gene: Steamy\_91 Start: 51725, Stop: 51612, Start Num: 7

Candidate Starts for Steamy\_91:

(Start: 7 @51725 has 4 MA's), (9, 51695),

Gene: Terrific\_98 Start: 51546, Stop: 51424, Start Num: 6

Candidate Starts for Terrific\_98:

(Start: 6 @51546 has 7 MA's), (Start: 7 @51534 has 4 MA's), (9, 51507), (11, 51438),

Gene: Trooper\_94 Start: 51019, Stop: 50912, Start Num: 7

Candidate Starts for Trooper\_94:

(Start: 7 @51019 has 4 MA's), (9, 50995), (11, 50926),

Gene: Updawg\_97 Start: 51572, Stop: 51450, Start Num: 6

Candidate Starts for Updawg\_97:

(Start: 6 @51572 has 7 MA's), (Start: 7 @51560 has 4 MA's), (9, 51533), (11, 51464),

Gene: WideWale\_97 Start: 51572, Stop: 51450, Start Num: 6

Candidate Starts for WideWale\_97:

(Start: 6 @51572 has 7 MA's), (Start: 7 @51560 has 4 MA's), (9, 51533), (11, 51464),