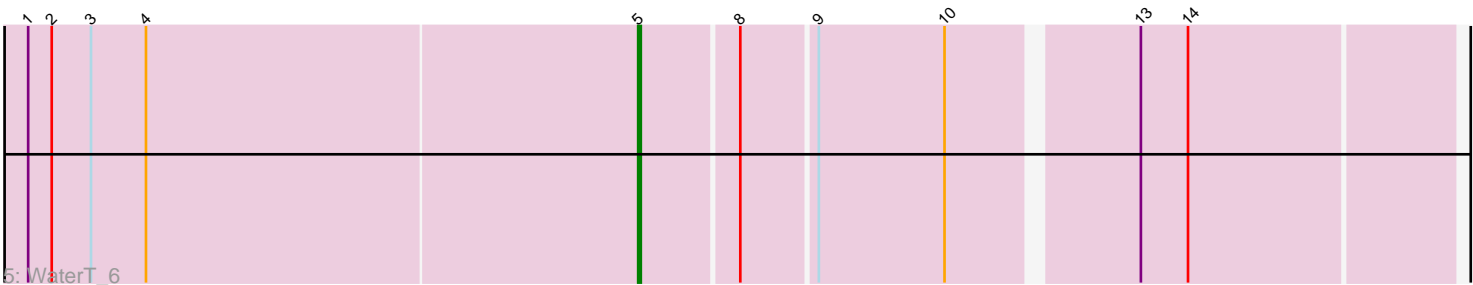
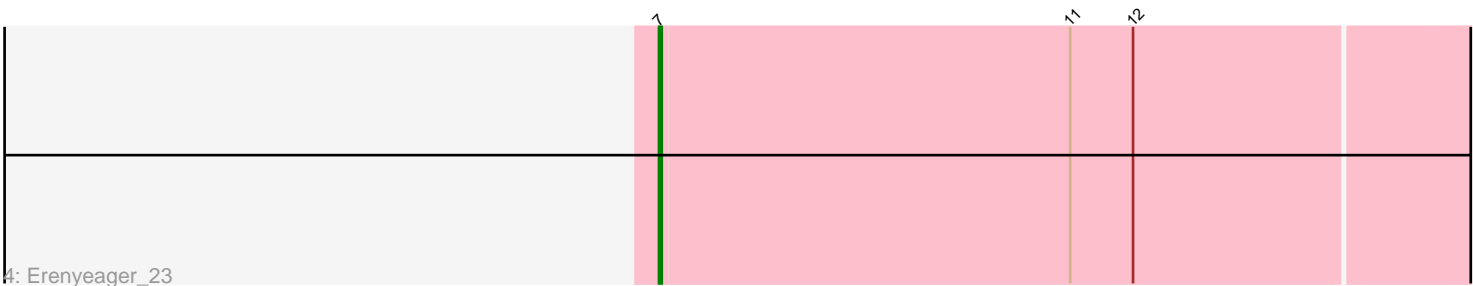
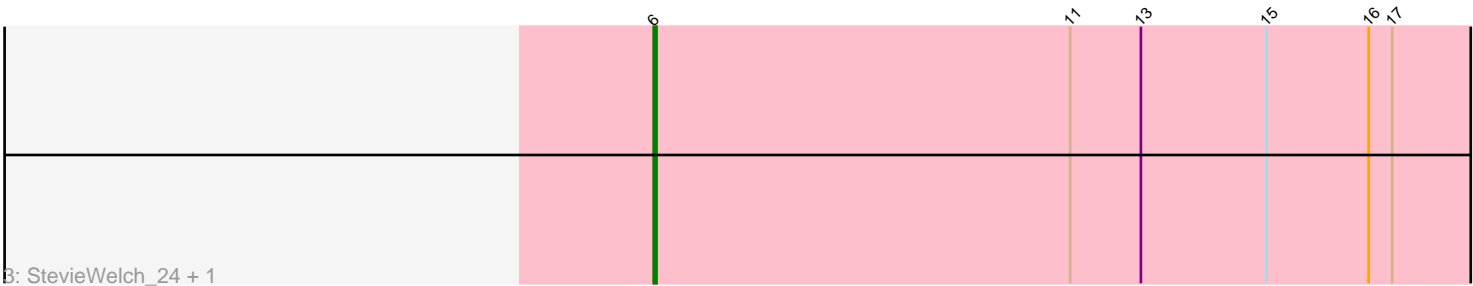
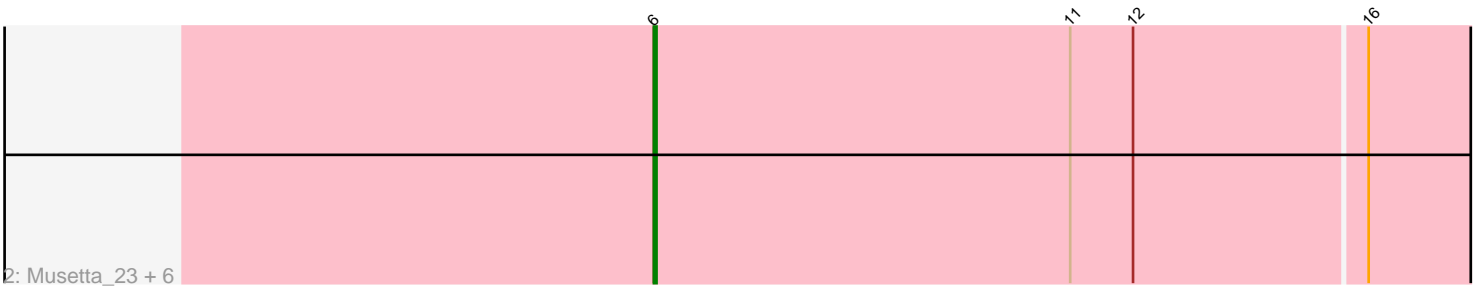
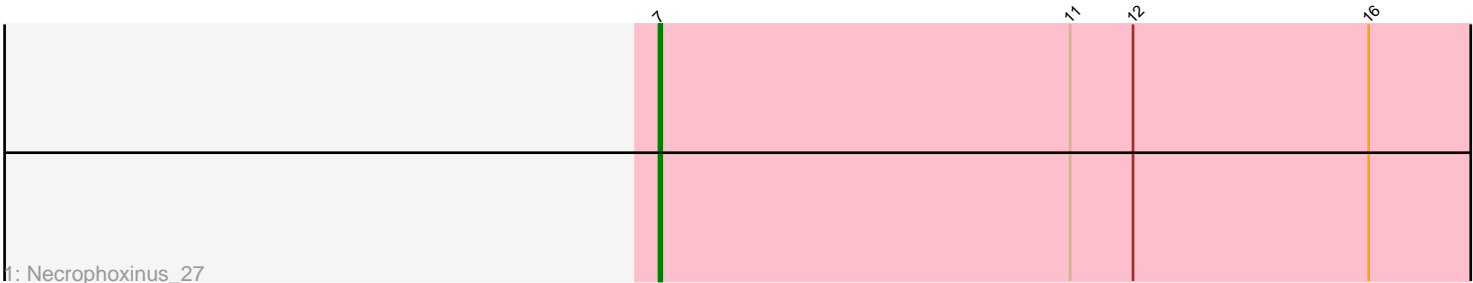


Pham 138364



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 138364 Report

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

Pham number 138364 has 12 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Necrophoxinus\_27
- Track 2 : Musetta\_23, DustyDino\_26, Lyell\_24, Yuma\_23, ASegato\_23, Welcome\_24, RunningBrook\_25
- Track 3 : StevieWelch\_24, Fork\_21
- Track 4 : Erenyeager\_23
- Track 5 : WaterT\_6

### ***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 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASegato\_23, DustyDino\_26, Fork\_21, Lyell\_24, Musetta\_23, RunningBrook\_25, StevieWelch\_24, Welcome\_24, Yuma\_23,

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

- 

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

- Erenyeager\_23, Necrophoxinus\_27, WaterT\_6,

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

Start 5:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WaterT\_6 (GB),

Start 6:

- Found in 9 of 12 ( 75.0% ) of genes in pham
- Manual Annotations of this start: 7 of 10
- Called 100.0% of time when present

- Phage (with cluster) where this start called: ASegato\_23 (ED2), DustyDino\_26 (ED2), Fork\_21 (ED2), Lyell\_24 (ED2), Musetta\_23 (ED2), RunningBrook\_25 (ED2), StevieWelch\_24 (ED2), Welcome\_24 (ED2), Yuma\_23 (ED2),

Start 7:

- Found in 2 of 12 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Erenyeager\_23 (ED2), Necrophoxinus\_27 (ED2),

### **Summary by clusters:**

There are 2 clusters represented in this pham: ED2, GB,

Info for manual annotations of cluster ED2:

- Start number 6 was manually annotated 7 times for cluster ED2.
- Start number 7 was manually annotated 2 times for cluster ED2.

Info for manual annotations of cluster GB:

- Start number 5 was manually annotated 1 time for cluster GB.

### **Gene Information:**

Gene: ASegato\_23 Start: 7211, Stop: 7531, Start Num: 6

Candidate Starts for ASegato\_23:

(Start: 6 @7211 has 7 MA's), (11, 7370), (12, 7394), (16, 7481),

Gene: DustyDino\_26 Start: 7914, Stop: 8234, Start Num: 6

Candidate Starts for DustyDino\_26:

(Start: 6 @7914 has 7 MA's), (11, 8073), (12, 8097), (16, 8184),

Gene: Erenyeager\_23 Start: 7431, Stop: 7748, Start Num: 7

Candidate Starts for Erenyeager\_23:

(Start: 7 @7431 has 2 MA's), (11, 7587), (12, 7611),

Gene: Fork\_21 Start: 6865, Stop: 7188, Start Num: 6

Candidate Starts for Fork\_21:

(Start: 6 @6865 has 7 MA's), (11, 7024), (13, 7051), (15, 7099), (16, 7138), (17, 7147),

Gene: Lyell\_24 Start: 7327, Stop: 7647, Start Num: 6

Candidate Starts for Lyell\_24:

(Start: 6 @7327 has 7 MA's), (11, 7486), (12, 7510), (16, 7597),

Gene: Musetta\_23 Start: 7405, Stop: 7725, Start Num: 6

Candidate Starts for Musetta\_23:

(Start: 6 @7405 has 7 MA's), (11, 7564), (12, 7588), (16, 7675),

Gene: Necrophoxinus\_27 Start: 8208, Stop: 8528, Start Num: 7

Candidate Starts for Necrophoxinus\_27:

(Start: 7 @8208 has 2 MA's), (11, 8364), (12, 8388), (16, 8478),

Gene: RunningBrook\_25 Start: 7914, Stop: 8234, Start Num: 6

Candidate Starts for RunningBrook\_25:

(Start: 6 @7914 has 7 MA's), (11, 8073), (12, 8097), (16, 8184),

Gene: StevieWelch\_24 Start: 7555, Stop: 7878, Start Num: 6

Candidate Starts for StevieWelch\_24:

(Start: 6 @7555 has 7 MA's), (11, 7714), (13, 7741), (15, 7789), (16, 7828), (17, 7837),

Gene: WaterT\_6 Start: 1700, Stop: 1993, Start Num: 5

Candidate Starts for WaterT\_6:

(1, 1469), (2, 1478), (3, 1493), (4, 1514), (Start: 5 @1700 has 1 MA's), (8, 1736), (9, 1763), (10, 1811), (13, 1877), (14, 1895),

Gene: Welcome\_24 Start: 7401, Stop: 7721, Start Num: 6

Candidate Starts for Welcome\_24:

(Start: 6 @7401 has 7 MA's), (11, 7560), (12, 7584), (16, 7671),

Gene: Yuma\_23 Start: 7304, Stop: 7624, Start Num: 6

Candidate Starts for Yuma\_23:

(Start: 6 @7304 has 7 MA's), (11, 7463), (12, 7487), (16, 7574),