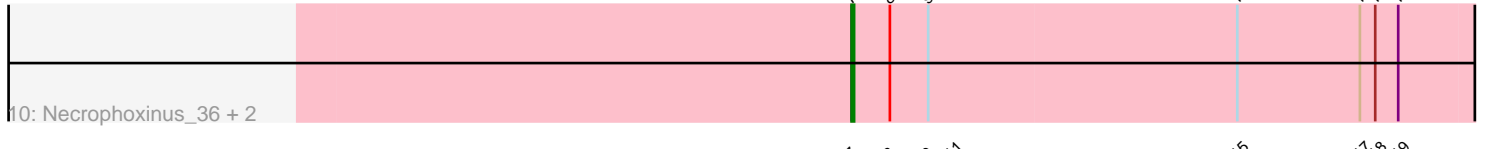
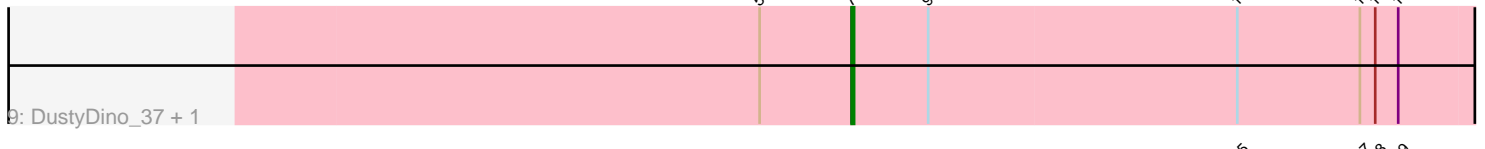
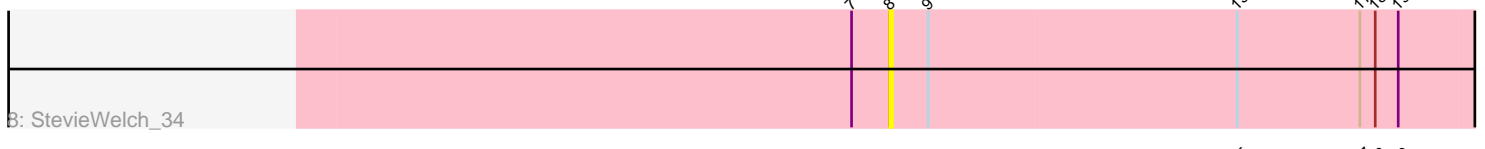
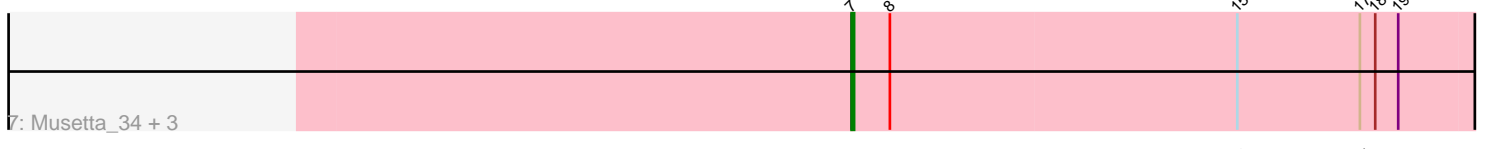
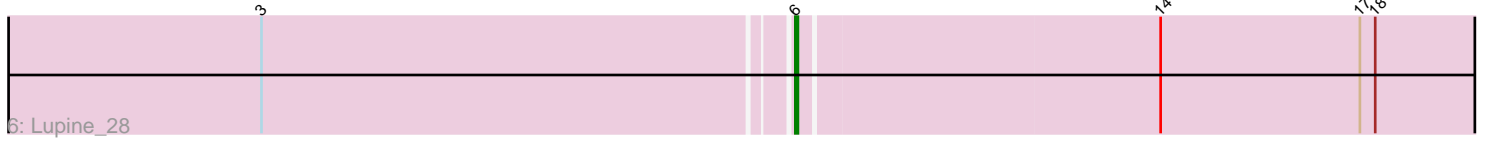
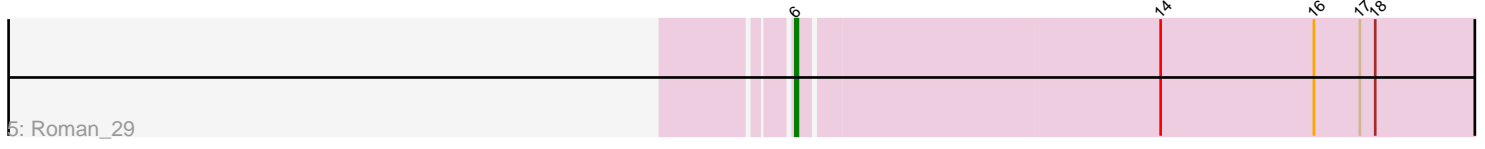
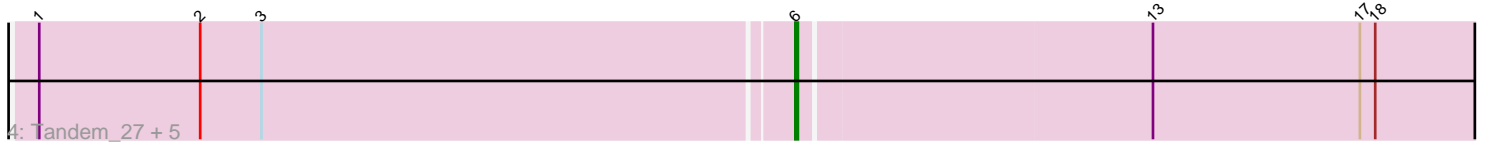
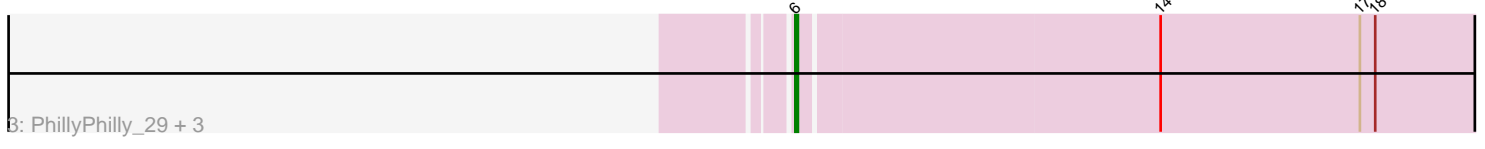
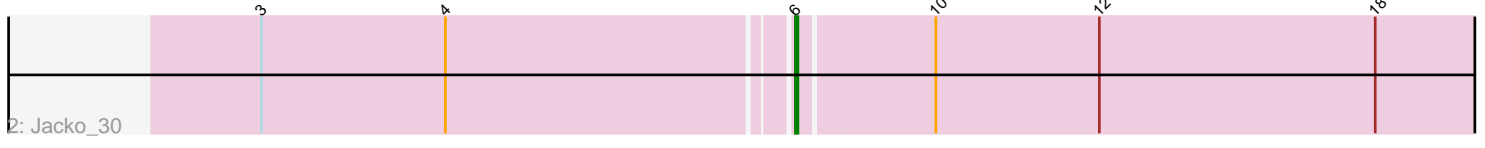
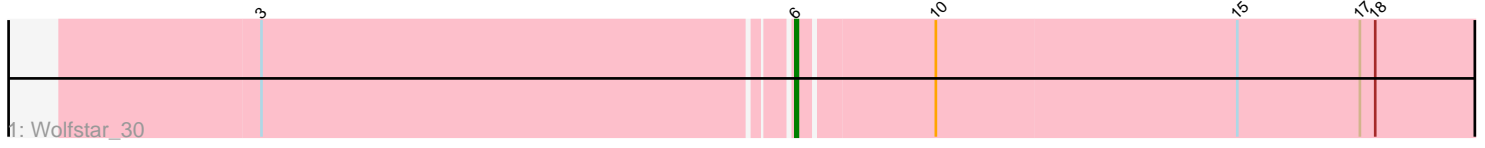


Pham 196763



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 196763 Report

This analysis was run 12/09/24 on database version 580.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 196763 has 25 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar\_30
- Track 2 : Jacko\_30
- Track 3 : PhillyPhilly\_29, Pavlo\_28, Hubbs\_29, DejaVu\_30
- Track 4 : Tandem\_27, Platte\_27, Alleb\_28, OlinDD\_27, Hortus1\_27, Pioneer3\_27
- Track 5 : Roman\_29
- Track 6 : Lupine\_28
- Track 7 : Musetta\_34, Welcome\_35, Yuma\_33, ASegato\_33
- Track 8 : StevieWelch\_34
- Track 9 : DustyDino\_37, RunningBrook\_35
- Track 10 : Necrophoxinus\_36, Erenyeager\_34, Lyell\_34
- Track 11 : Fork\_30

### ***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 14 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alleb\_28, DejaVu\_30, Hortus1\_27, Hubbs\_29, Jacko\_30, Lupine\_28, OlinDD\_27, Pavlo\_28, PhillyPhilly\_29, Pioneer3\_27, Platte\_27, Roman\_29, Tandem\_27, Wolfstar\_30,

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

- 

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

- ASegato\_33, DustyDino\_37, Erenyeager\_34, Fork\_30, Lyell\_34, Musetta\_34, Necrophoxinus\_36, RunningBrook\_35, StevieWelch\_34, Welcome\_35, Yuma\_33,

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

Start 6:

- Found in 14 of 25 ( 56.0% ) of genes in pham
- Manual Annotations of this start: 14 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alleb\_28 (ED1), DejaVu\_30 (ED1), Hortus1\_27 (ED1), Hubbs\_29 (ED1), Jacko\_30 (ED1), Lupine\_28 (ED1), OlinDD\_27 (ED1), Pavlo\_28 (ED1), PhillyPhilly\_29 (ED1), Pioneer3\_27 (ED1), Platte\_27 (ED1), Roman\_29 (ED1), Tandem\_27 (ED1), Wolfstar\_30 (ED),

Start 7:

- Found in 11 of 25 ( 44.0% ) of genes in pham
- Manual Annotations of this start: 10 of 24
- Called 90.9% of time when present
- Phage (with cluster) where this start called: ASegato\_33 (ED2), DustyDino\_37 (ED2), Erenyeager\_34 (ED2), Fork\_30 (ED2), Lyell\_34 (ED2), Musetta\_34 (ED2), Necrophoxinus\_36 (ED2), RunningBrook\_35 (ED2), Welcome\_35 (ED2), Yuma\_33 (ED2),

Start 8:

- Found in 9 of 25 ( 36.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: StevieWelch\_34 (ED2),

**Summary by clusters:**

There are 3 clusters represented in this pham: ED2, ED, ED1,

Info for manual annotations of cluster ED:

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

Info for manual annotations of cluster ED1:

- Start number 6 was manually annotated 13 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 7 was manually annotated 10 times for cluster ED2.

**Gene Information:**

Gene: ASegato\_33 Start: 9624, Stop: 9875, Start Num: 7

Candidate Starts for ASegato\_33:

(Start: 7 @9624 has 10 MA's), (8, 9639), (15, 9774), (17, 9822), (18, 9828), (19, 9837),

Gene: Alleb\_28 Start: 8830, Stop: 9090, Start Num: 6

Candidate Starts for Alleb\_28:

(1, 8539), (2, 8602), (3, 8626), (Start: 6 @8830 has 14 MA's), (13, 8965), (17, 9046), (18, 9052),

Gene: DejaVu\_30 Start: 9028, Stop: 9288, Start Num: 6

Candidate Starts for DejaVu\_30:

(Start: 6 @9028 has 14 MA's), (14, 9166), (17, 9244), (18, 9250),

Gene: DustyDino\_37 Start: 10571, Stop: 10822, Start Num: 7

Candidate Starts for DustyDino\_37:

(5, 10535), (Start: 7 @10571 has 10 MA's), (9, 10601), (15, 10721), (17, 10769), (18, 10775), (19, 10784),

Gene: Erenyeager\_34 Start: 9965, Stop: 10216, Start Num: 7

Candidate Starts for Erenyeager\_34:

(Start: 7 @9965 has 10 MA's), (8, 9980), (9, 9995), (15, 10115), (17, 10163), (18, 10169), (19, 10178),

Gene: Fork\_30 Start: 9281, Stop: 9532, Start Num: 7

Candidate Starts for Fork\_30:

(Start: 7 @9281 has 10 MA's), (8, 9296), (9, 9311), (11, 9320), (15, 9431), (17, 9479), (18, 9485), (19, 9494),

Gene: Hortus1\_27 Start: 8829, Stop: 9089, Start Num: 6

Candidate Starts for Hortus1\_27:

(1, 8538), (2, 8601), (3, 8625), (Start: 6 @8829 has 14 MA's), (13, 8964), (17, 9045), (18, 9051),

Gene: Hubbs\_29 Start: 9240, Stop: 9500, Start Num: 6

Candidate Starts for Hubbs\_29:

(Start: 6 @9240 has 14 MA's), (14, 9378), (17, 9456), (18, 9462),

Gene: Jacko\_30 Start: 9333, Stop: 9593, Start Num: 6

Candidate Starts for Jacko\_30:

(3, 9132), (4, 9204), (Start: 6 @9333 has 14 MA's), (10, 9384), (12, 9447), (18, 9555),

Gene: Lupine\_28 Start: 8912, Stop: 9172, Start Num: 6

Candidate Starts for Lupine\_28:

(3, 8711), (Start: 6 @8912 has 14 MA's), (14, 9050), (17, 9128), (18, 9134),

Gene: Lyell\_34 Start: 9883, Stop: 10134, Start Num: 7

Candidate Starts for Lyell\_34:

(Start: 7 @9883 has 10 MA's), (8, 9898), (9, 9913), (15, 10033), (17, 10081), (18, 10087), (19, 10096),

Gene: Musetta\_34 Start: 9992, Stop: 10243, Start Num: 7

Candidate Starts for Musetta\_34:

(Start: 7 @9992 has 10 MA's), (8, 10007), (15, 10142), (17, 10190), (18, 10196), (19, 10205),

Gene: Necrophoxinus\_36 Start: 10579, Stop: 10830, Start Num: 7

Candidate Starts for Necrophoxinus\_36:

(Start: 7 @10579 has 10 MA's), (8, 10594), (9, 10609), (15, 10729), (17, 10777), (18, 10783), (19, 10792),

Gene: OlinDD\_27 Start: 8828, Stop: 9088, Start Num: 6

Candidate Starts for OlinDD\_27:

(1, 8537), (2, 8600), (3, 8624), (Start: 6 @8828 has 14 MA's), (13, 8963), (17, 9044), (18, 9050),

Gene: Pavlo\_28 Start: 9187, Stop: 9447, Start Num: 6

Candidate Starts for Pavlo\_28:

(Start: 6 @9187 has 14 MA's), (14, 9325), (17, 9403), (18, 9409),

Gene: PhillyPhilly\_29 Start: 9092, Stop: 9352, Start Num: 6

Candidate Starts for PhillyPhilly\_29:

(Start: 6 @9092 has 14 MA's), (14, 9230), (17, 9308), (18, 9314),

Gene: Pioneer3\_27 Start: 8827, Stop: 9087, Start Num: 6

Candidate Starts for Pioneer3\_27:

(1, 8536), (2, 8599), (3, 8623), (Start: 6 @8827 has 14 MA's), (13, 8962), (17, 9043), (18, 9049),

Gene: Platte\_27 Start: 8597, Stop: 8857, Start Num: 6

Candidate Starts for Platte\_27:

(1, 8306), (2, 8369), (3, 8393), (Start: 6 @8597 has 14 MA's), (13, 8732), (17, 8813), (18, 8819),

Gene: Roman\_29 Start: 9087, Stop: 9347, Start Num: 6

Candidate Starts for Roman\_29:

(Start: 6 @9087 has 14 MA's), (14, 9225), (16, 9285), (17, 9303), (18, 9309),

Gene: RunningBrook\_35 Start: 10571, Stop: 10822, Start Num: 7

Candidate Starts for RunningBrook\_35:

(5, 10535), (Start: 7 @10571 has 10 MA's), (9, 10601), (15, 10721), (17, 10769), (18, 10775), (19, 10784),

Gene: StevieWelch\_34 Start: 9986, Stop: 10222, Start Num: 8

Candidate Starts for StevieWelch\_34:

(Start: 7 @9971 has 10 MA's), (8, 9986), (9, 10001), (15, 10121), (17, 10169), (18, 10175), (19, 10184),

Gene: Tandem\_27 Start: 8766, Stop: 9026, Start Num: 6

Candidate Starts for Tandem\_27:

(1, 8475), (2, 8538), (3, 8562), (Start: 6 @8766 has 14 MA's), (13, 8901), (17, 8982), (18, 8988),

Gene: Welcome\_35 Start: 9988, Stop: 10239, Start Num: 7

Candidate Starts for Welcome\_35:

(Start: 7 @9988 has 10 MA's), (8, 10003), (15, 10138), (17, 10186), (18, 10192), (19, 10201),

Gene: Wolfstar\_30 Start: 9600, Stop: 9860, Start Num: 6

Candidate Starts for Wolfstar\_30:

(3, 9399), (Start: 6 @9600 has 14 MA's), (10, 9651), (15, 9768), (17, 9816), (18, 9822),

Gene: Yuma\_33 Start: 9891, Stop: 10142, Start Num: 7

Candidate Starts for Yuma\_33:

(Start: 7 @9891 has 10 MA's), (8, 9906), (15, 10041), (17, 10089), (18, 10095), (19, 10104),