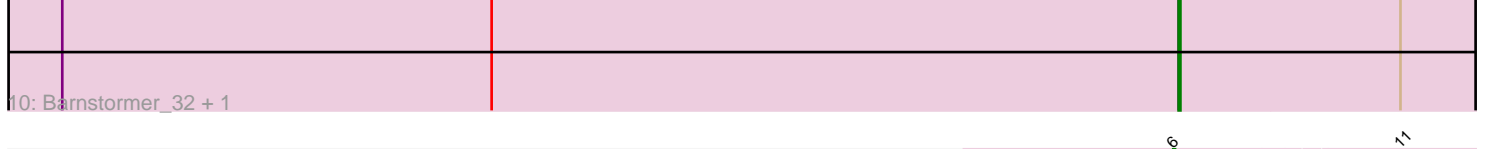
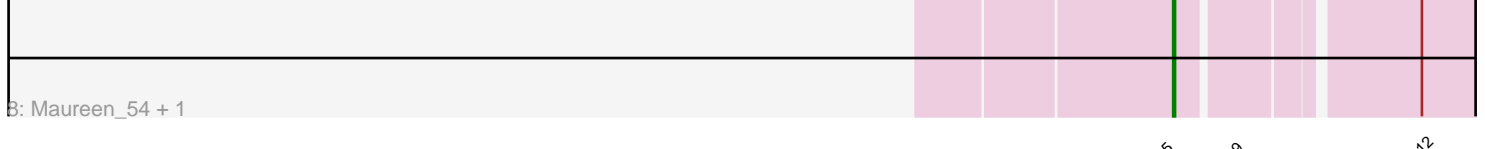
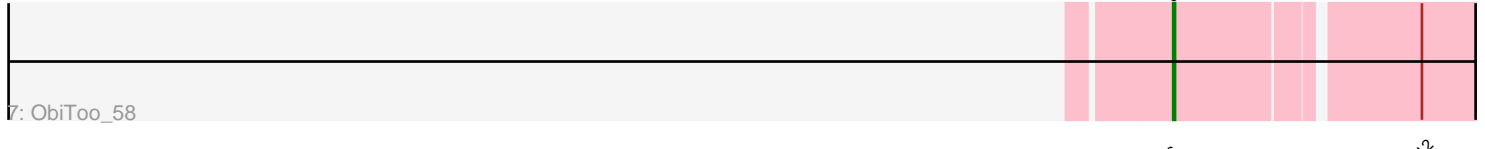
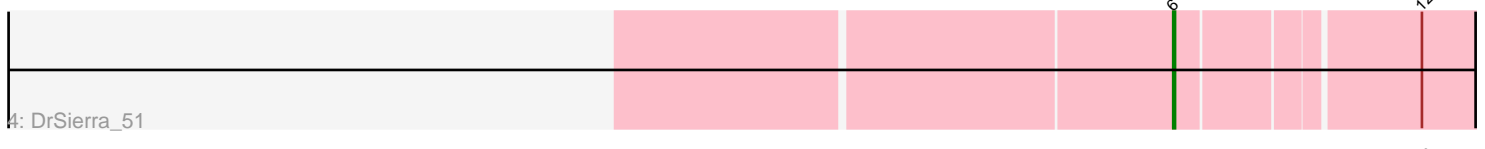
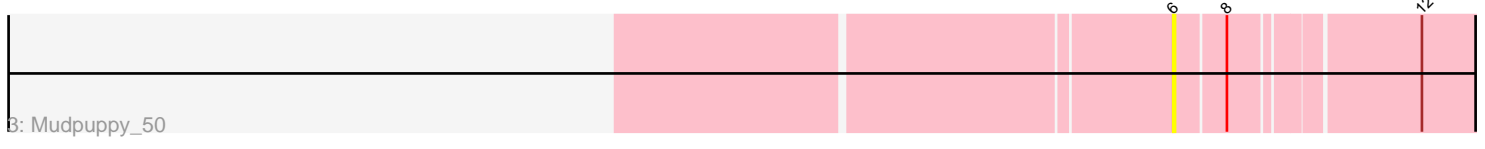
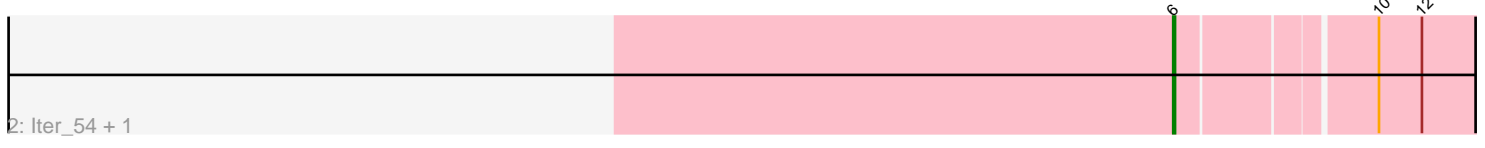
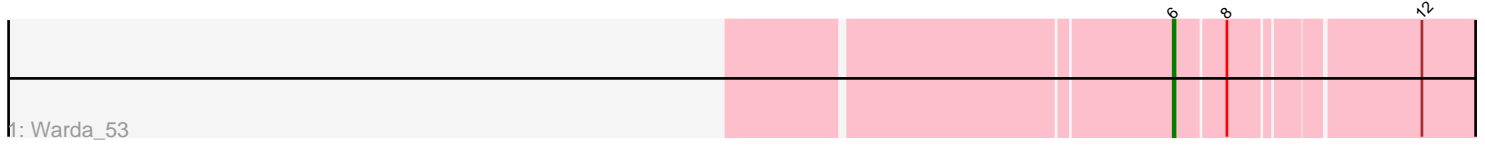


Pham 164029



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 164029 Report

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

Pham number 164029 has 14 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Warda_53
- Track 2 : Iter_54, Ascela_54
- Track 3 : Mudpuppy_50
- Track 4 : DrSierra_51
- Track 5 : Yang_54
- Track 6 : Nitro_54
- Track 7 : ObiToo_58
- Track 8 : Maureen_54, Liebe_54
- Track 9 : Buldak_57
- Track 10 : Barnstormer_32, UtzChips_32
- Track 11 : Cen1621_33

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 10 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ascela_54, Cen1621_33, DrSierra_51, Iter_54, Liebe_54, Maureen_54, Mudpuppy_50, Nitro_54, ObiToo_58, Warda_53, Yang_54,

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

-

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

- Barnstormer_32, Buldak_57, UtzChips_32,

Summary by start number:

Start 5:

- Found in 1 of 14 (7.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Buldak_57 (EB),

Start 6:

- Found in 11 of 14 (78.6%) of genes in pham
- Manual Annotations of this start: 10 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ascela_54 (AZ1), Cen1621_33 (EH), DrSierra_51 (AZ1), lter_54 (AZ1), Liebe_54 (AZ2), Maureen_54 (AZ2), Mudpuppy_50 (AZ1), Nitro_54 (AZ1), ObiToo_58 (AZ1), Warda_53 (AZ1), Yang_54 (AZ1),

Start 7:

- Found in 2 of 14 (14.3%) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnstormer_32 (EH), UtzChips_32 (EH),

Summary by clusters:

There are 4 clusters represented in this pham: AZ1, AZ2, EH, EB,

Info for manual annotations of cluster AZ1:

- Start number 6 was manually annotated 7 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 6 was manually annotated 2 times for cluster AZ2.

Info for manual annotations of cluster EH:

- Start number 6 was manually annotated 1 time for cluster EH.
- Start number 7 was manually annotated 2 times for cluster EH.

Gene Information:

Gene: Ascela_54 Start: 38184, Stop: 38390, Start Num: 6

Candidate Starts for Ascela_54:

(Start: 6 @38184 has 10 MA's), (10, 38286), (12, 38310),

Gene: Barnstormer_32 Start: 23785, Stop: 24018, Start Num: 7

Candidate Starts for Barnstormer_32:

(1, 23161), (2, 23401), (Start: 7 @23785 has 2 MA's), (11, 23908),

Gene: Buldak_57 Start: 36115, Stop: 36327, Start Num: 5

Candidate Starts for Buldak_57:

(5, 36115), (9, 36154), (12, 36250),

Gene: Cen1621_33 Start: 23276, Stop: 23482, Start Num: 6

Candidate Starts for Cen1621_33:

(Start: 6 @23276 has 10 MA's), (11, 23396),

Gene: DrSierra_51 Start: 36255, Stop: 36458, Start Num: 6

Candidate Starts for DrSierra_51:

(Start: 6 @36255 has 10 MA's), (12, 36381),

Gene: Iter_54 Start: 38176, Stop: 38382, Start Num: 6

Candidate Starts for Iter_54:

(Start: 6 @38176 has 10 MA's), (10, 38278), (12, 38302),

Gene: Liebe_54 Start: 39610, Stop: 39810, Start Num: 6

Candidate Starts for Liebe_54:

(Start: 6 @39610 has 10 MA's), (12, 39730),

Gene: Maureen_54 Start: 39609, Stop: 39809, Start Num: 6

Candidate Starts for Maureen_54:

(Start: 6 @39609 has 10 MA's), (12, 39729),

Gene: Mudpuppy_50 Start: 37133, Stop: 37333, Start Num: 6

Candidate Starts for Mudpuppy_50:

(Start: 6 @37133 has 10 MA's), (8, 37160), (12, 37256),

Gene: Nitro_54 Start: 39215, Stop: 39412, Start Num: 6

Candidate Starts for Nitro_54:

(Start: 6 @39215 has 10 MA's), (12, 39335),

Gene: ObiToo_58 Start: 38862, Stop: 39068, Start Num: 6

Candidate Starts for ObiToo_58:

(Start: 6 @38862 has 10 MA's), (12, 38988),

Gene: UtzChips_32 Start: 23770, Stop: 24003, Start Num: 7

Candidate Starts for UtzChips_32:

(1, 23146), (2, 23386), (Start: 7 @23770 has 2 MA's), (11, 23893),

Gene: Warda_53 Start: 37573, Stop: 37773, Start Num: 6

Candidate Starts for Warda_53:

(Start: 6 @37573 has 10 MA's), (8, 37600), (12, 37696),

Gene: Yang_54 Start: 38204, Stop: 38410, Start Num: 6

Candidate Starts for Yang_54:

(3, 37991), (4, 38126), (Start: 6 @38204 has 10 MA's), (12, 38330),