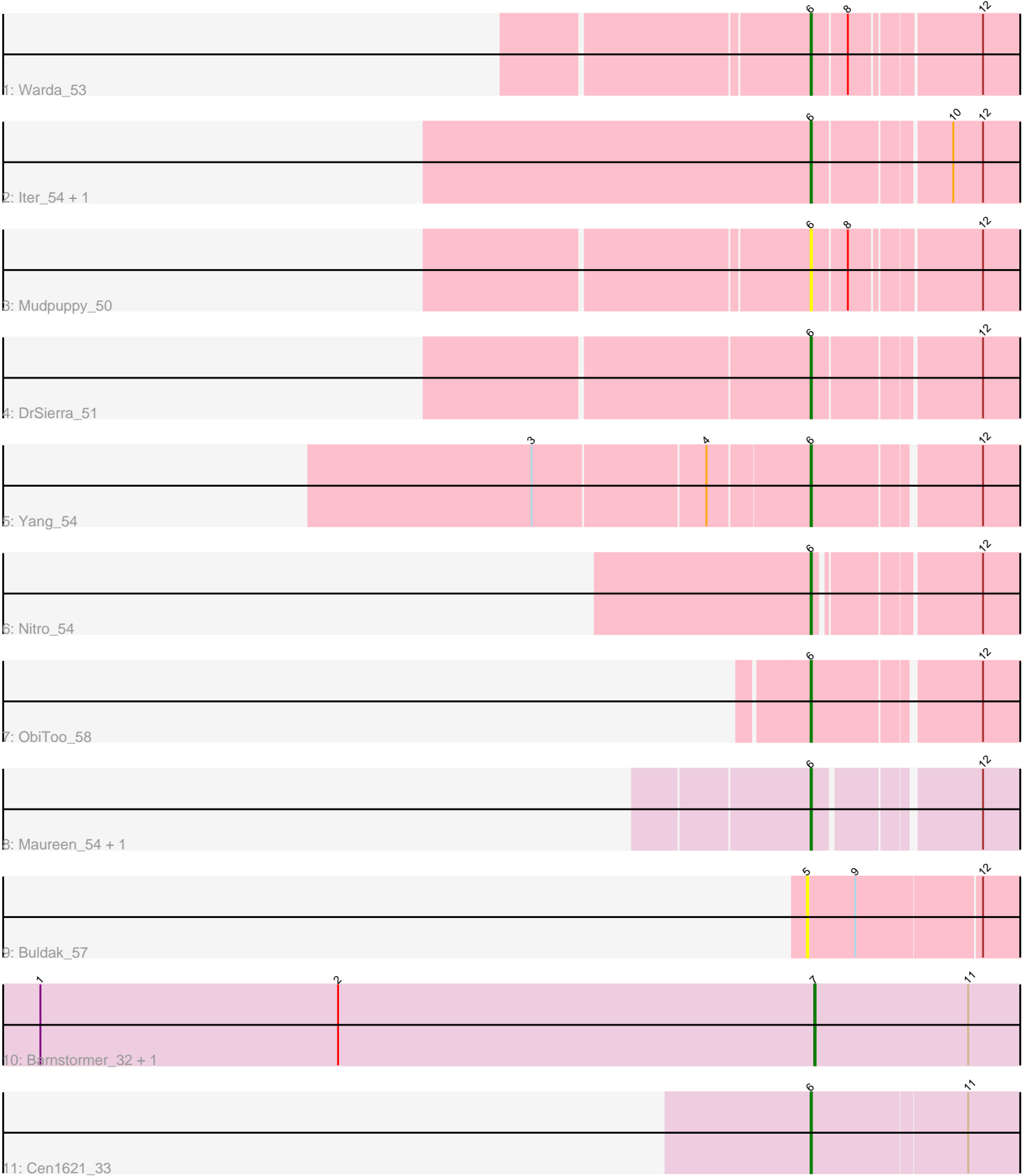


Pham 164029



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 05/04/24 on database version 560.

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), Iter\_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),