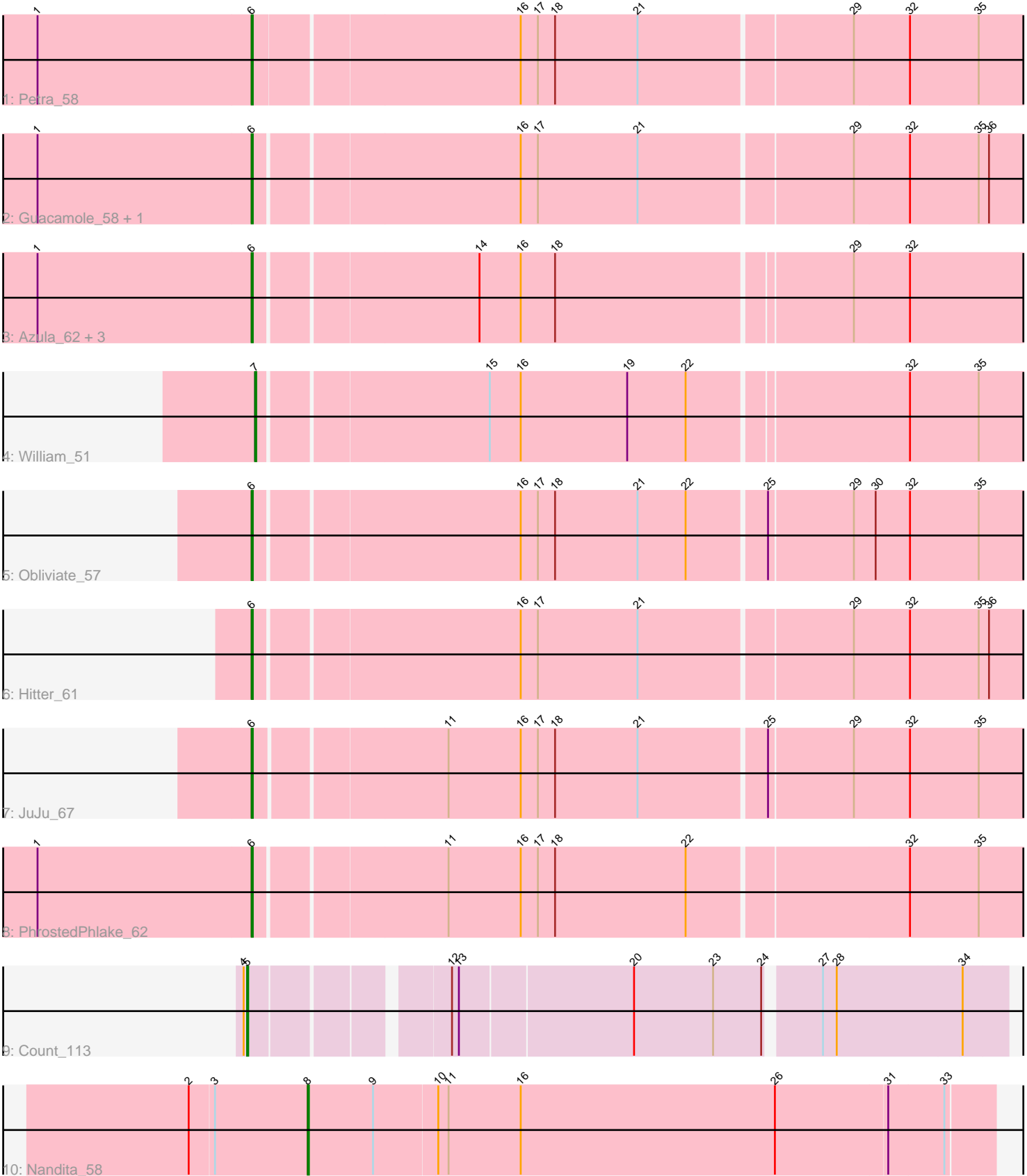


Pham 4642



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 4642 Report

This analysis was run 04/05/24 on database version 557.

Pham number 4642 has 14 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Petra\_58
- Track 2 : Guacamole\_58, JasperJr\_58
- Track 3 : Azula\_62, Blueberry\_61, Gambino\_64, MissRona\_62
- Track 4 : William\_51
- Track 5 : Obliviate\_57
- Track 6 : Hitter\_61
- Track 7 : JuJu\_67
- Track 8 : PhrostedPhlake\_62
- Track 9 : Count\_113
- Track 10 : Nandita\_58

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

Genes that call this "Most Annotated" start:

- Azula\_62, Blueberry\_61, Gambino\_64, Guacamole\_58, Hitter\_61, JasperJr\_58, JuJu\_67, MissRona\_62, Obliviate\_57, Petra\_58, PhrostedPhlake\_62,

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

- 

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

- Count\_113, Nandita\_58, William\_51,

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

Start 5:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Count\_113 (EL),

#### Start 6:

- Found in 11 of 14 ( 78.6% ) of genes in pham
- Manual Annotations of this start: 11 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azula\_62 (CV), Blueberry\_61 (CV), Gambino\_64 (CV), Guacamole\_58 (CV), Hitter\_61 (CV), JasperJr\_58 (CV), JuJu\_67 (CV), MissRona\_62 (CV), Obliviate\_57 (CV), Petra\_58 (CV), PhrostedPhlake\_62 (CV),

#### Start 7:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: William\_51 (CV),

#### Start 8:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nandita\_58 (FF),

### Summary by clusters:

There are 3 clusters represented in this pham: EL, CV, FF,

Info for manual annotations of cluster CV:

- Start number 6 was manually annotated 11 times for cluster CV.
- Start number 7 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster EL:

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

Info for manual annotations of cluster FF:

- Start number 8 was manually annotated 1 time for cluster FF.

### Gene Information:

Gene: Azula\_62 Start: 42019, Stop: 42672, Start Num: 6

Candidate Starts for Azula\_62:

(1, 41833), (Start: 6 @42019 has 11 MA's), (14, 42205), (16, 42241), (18, 42271), (29, 42520), (32, 42568),

Gene: Blueberry\_61 Start: 42019, Stop: 42672, Start Num: 6

Candidate Starts for Blueberry\_61:

(1, 41833), (Start: 6 @42019 has 11 MA's), (14, 42205), (16, 42241), (18, 42271), (29, 42520), (32, 42568),

Gene: Count\_113 Start: 68215, Stop: 68832, Start Num: 5

Candidate Starts for Count\_113:

(4, 68212), (Start: 5 @68215 has 1 MA's), (12, 68368), (13, 68374), (20, 68521), (23, 68590), (24, 68632), (27, 68674), (28, 68686), (34, 68794),

Gene: Gambino\_64 Start: 42019, Stop: 42672, Start Num: 6

Candidate Starts for Gambino\_64:

(1, 41833), (Start: 6 @42019 has 11 MA's), (14, 42205), (16, 42241), (18, 42271), (29, 42520), (32, 42568),

Gene: Guacamole\_58 Start: 39789, Stop: 40445, Start Num: 6

Candidate Starts for Guacamole\_58:

(1, 39603), (Start: 6 @39789 has 11 MA's), (16, 40011), (17, 40026), (21, 40113), (29, 40293), (32, 40341), (35, 40401), (36, 40410),

Gene: Hitter\_61 Start: 39335, Stop: 39991, Start Num: 6

Candidate Starts for Hitter\_61:

(Start: 6 @39335 has 11 MA's), (16, 39557), (17, 39572), (21, 39659), (29, 39839), (32, 39887), (35, 39947), (36, 39956),

Gene: JasperJr\_58 Start: 39789, Stop: 40445, Start Num: 6

Candidate Starts for JasperJr\_58:

(1, 39603), (Start: 6 @39789 has 11 MA's), (16, 40011), (17, 40026), (21, 40113), (29, 40293), (32, 40341), (35, 40401), (36, 40410),

Gene: JuJu\_67 Start: 43497, Stop: 44153, Start Num: 6

Candidate Starts for JuJu\_67:

(Start: 6 @43497 has 11 MA's), (11, 43656), (16, 43719), (17, 43734), (18, 43749), (21, 43821), (25, 43929), (29, 44001), (32, 44049), (35, 44109),

Gene: MissRona\_62 Start: 42020, Stop: 42673, Start Num: 6

Candidate Starts for MissRona\_62:

(1, 41834), (Start: 6 @42020 has 11 MA's), (14, 42206), (16, 42242), (18, 42272), (29, 42521), (32, 42569),

Gene: Nandita\_58 Start: 37158, Stop: 37748, Start Num: 8

Candidate Starts for Nandita\_58:

(2, 37056), (3, 37077), (Start: 8 @37158 has 1 MA's), (9, 37215), (10, 37269), (11, 37278), (16, 37341), (26, 37563), (31, 37659), (33, 37707),

Gene: Obliviate\_57 Start: 38176, Stop: 38832, Start Num: 6

Candidate Starts for Obliviate\_57:

(Start: 6 @38176 has 11 MA's), (16, 38398), (17, 38413), (18, 38428), (21, 38500), (22, 38542), (25, 38608), (29, 38680), (30, 38698), (32, 38728), (35, 38788),

Gene: Petra\_58 Start: 38801, Stop: 39460, Start Num: 6

Candidate Starts for Petra\_58:

(1, 38615), (Start: 6 @38801 has 11 MA's), (16, 39026), (17, 39041), (18, 39056), (21, 39128), (29, 39308), (32, 39356), (35, 39416),

Gene: PhrostedPhlake\_62 Start: 39580, Stop: 40236, Start Num: 6

Candidate Starts for PhrostedPhlake\_62:

(1, 39394), (Start: 6 @39580 has 11 MA's), (11, 39739), (16, 39802), (17, 39817), (18, 39832), (22, 39946), (32, 40132), (35, 40192),

Gene: William\_51 Start: 36393, Stop: 37043, Start Num: 7

Candidate Starts for William\_51:

(Start: 7 @36393 has 1 MA's), (15, 36585), (16, 36612), (19, 36705), (22, 36756), (32, 36939), (35, 36999),