Pham 162240



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 162240 Report

This analysis was run 05/04/24 on database version 560.

Pham number 162240 has 17 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Kepler\_61, Melons\_62, Polka\_59, Coral\_59, Cote\_62
- Track 2 : Lunar\_61, HannahPhantana\_68, Amelia\_59
- Track 3 : LittleTokyo\_58
- Track 4 : Kuleana\_63
- Track 5 : Daob\_61
- Track 6 : Juno112\_60, KHumphrey\_59, PhluffyCoco\_60, RedFox\_60
- Track 7 : Andrew\_63
- Track 8 : Renna12\_60

## Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 2, it was called in 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Amelia\_59, Andrew\_63, HannahPhantana\_68, Juno112\_60, KHumphrey\_59, Kuleana\_63, LittleTokyo\_58, Lunar\_61, PhluffyCoco\_60, RedFox\_60, Renna12\_60,

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

Coral\_59, Cote\_62, Daob\_61, Kepler\_61, Melons\_62, Polka\_59,

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

### Summary by start number:

Start 1:

- Found in 9 of 17 (52.9%) of genes in pham
- Manual Annotations of this start: 6 of 13
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Coral\_59 (AS2), Cote\_62 (AS2),
- Daob\_61 (AS2), Kepler\_61 (AS2), Melons\_62 (AS2), Polka\_59 (AS2),

Start 2:

- Found in 17 of 17 (100.0%) of genes in pham
- Manual Annotation's of this start: 7 of 13
- Called 64.7% of time when present

• Phage (with cluster) where this start called: Amelia\_59 (AS2), Andrew\_63 (AS3), HannahPhantana\_68 (AS2), Juno112\_60 (AS3), KHumphrey\_59 (AS3), Kuleana\_63 (AS2), LittleTokyo\_58 (AS2), Lunar\_61 (AS2), PhluffyCoco\_60 (AS3), RedFox\_60 (AS3), Renna12\_60 (AS3),

### Summary by clusters:

There are 2 clusters represented in this pham: AS3, AS2,

Info for manual annotations of cluster AS2:Start number 1 was manually annotated 6 times for cluster AS2.Start number 2 was manually annotated 4 times for cluster AS2.

Info for manual annotations of cluster AS3: •Start number 2 was manually annotated 3 times for cluster AS3.

### Gene Information:

Gene: Amelia\_59 Start: 34866, Stop: 34988, Start Num: 2 Candidate Starts for Amelia\_59: (Start: 1 @34863 has 6 MA's), (Start: 2 @34866 has 7 MA's),

Gene: Andrew\_63 Start: 36290, Stop: 36415, Start Num: 2 Candidate Starts for Andrew\_63: (Start: 2 @36290 has 7 MA's), (6, 36395),

Gene: Coral\_59 Start: 34768, Stop: 34893, Start Num: 1 Candidate Starts for Coral\_59: (Start: 1 @34768 has 6 MA's), (Start: 2 @34771 has 7 MA's),

Gene: Cote\_62 Start: 35201, Stop: 35326, Start Num: 1 Candidate Starts for Cote\_62: (Start: 1 @35201 has 6 MA's), (Start: 2 @35204 has 7 MA's),

Gene: Daob\_61 Start: 35212, Stop: 35337, Start Num: 1 Candidate Starts for Daob\_61: (Start: 1 @35212 has 6 MA's), (Start: 2 @35215 has 7 MA's), (3, 35260),

Gene: HannahPhantana\_68 Start: 34861, Stop: 34983, Start Num: 2 Candidate Starts for HannahPhantana\_68: (Start: 1 @34858 has 6 MA's), (Start: 2 @34861 has 7 MA's),

Gene: Juno112\_60 Start: 35767, Stop: 35889, Start Num: 2 Candidate Starts for Juno112\_60: (Start: 2 @35767 has 7 MA's), (5, 35851), (6, 35869), (7, 35872),

Gene: KHumphrey\_59 Start: 35655, Stop: 35777, Start Num: 2 Candidate Starts for KHumphrey\_59: (Start: 2 @35655 has 7 MA's), (5, 35739), (6, 35757), (7, 35760),

Gene: Kepler\_61 Start: 34979, Stop: 35104, Start Num: 1 Candidate Starts for Kepler\_61: (Start: 1 @34979 has 6 MA's), (Start: 2 @34982 has 7 MA's),

Gene: Kuleana\_63 Start: 35781, Stop: 35903, Start Num: 2 Candidate Starts for Kuleana\_63: (Start: 2 @35781 has 7 MA's),

Gene: LittleTokyo\_58 Start: 34373, Stop: 34507, Start Num: 2 Candidate Starts for LittleTokyo\_58: (Start: 2 @34373 has 7 MA's), (8, 34496),

Gene: Lunar\_61 Start: 34894, Stop: 35016, Start Num: 2 Candidate Starts for Lunar\_61: (Start: 1 @34891 has 6 MA's), (Start: 2 @34894 has 7 MA's),

Gene: Melons\_62 Start: 35046, Stop: 35171, Start Num: 1 Candidate Starts for Melons\_62: (Start: 1 @35046 has 6 MA's), (Start: 2 @35049 has 7 MA's),

Gene: PhluffyCoco\_60 Start: 35866, Stop: 35988, Start Num: 2 Candidate Starts for PhluffyCoco\_60: (Start: 2 @35866 has 7 MA's), (5, 35950), (6, 35968), (7, 35971),

Gene: Polka\_59 Start: 34713, Stop: 34838, Start Num: 1 Candidate Starts for Polka\_59: (Start: 1 @34713 has 6 MA's), (Start: 2 @34716 has 7 MA's),

Gene: RedFox\_60 Start: 35864, Stop: 35986, Start Num: 2 Candidate Starts for RedFox\_60: (Start: 2 @35864 has 7 MA's), (5, 35948), (6, 35966), (7, 35969),

Gene: Renna12\_60 Start: 35974, Stop: 36099, Start Num: 2 Candidate Starts for Renna12\_60: (Start: 2 @35974 has 7 MA's), (4, 36058), (6, 36079),