



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 6827 Report

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

Pham number 6827 has 9 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Akoni_18, AloeVera_18
- Track 2 : Ashton_18, JordanFarm_18, Barroma_18, Truong_18
- Track 3 : Waterlily_18
- Track 4 : Mazun_19
- Track 5 : Fede_17

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

The start number called the most often in the published annotations is 7, it was called in 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ashton_18, Barroma_18, Fede_17, JordanFarm_18, Mazun_19, Truong_18, Waterlily_18,

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

- Akoni_18, AloeVera_18,

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

•

Summary by start number:

Start 6:

- Found in 7 of 9 (77.8%) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Akoni_18 (EK2), AloeVera_18 (EK2),

Start 7:

- Found in 9 of 9 (100.0%) of genes in pham
- Manual Annotations of this start: 5 of 7
- Called 77.8% of time when present

- Phage (with cluster) where this start called: Ashton_18 (EK2), Barroma_18 (EK2), Fede_17 (EK2), JordanFarm_18 (EK2), Mazun_19 (EK2), Truong_18 (EK2), Waterlily_18 (EK2),

Summary by clusters:

There is one cluster represented in this pham: EK2

Info for manual annotations of cluster EK2:

- Start number 6 was manually annotated 2 times for cluster EK2.
- Start number 7 was manually annotated 5 times for cluster EK2.

Gene Information:

Gene: Akoni_18 Start: 12737, Stop: 12501, Start Num: 6

Candidate Starts for Akoni_18:

(5, 12776), (Start: 6 @12737 has 2 MA's), (Start: 7 @12731 has 5 MA's), (8, 12698), (9, 12695), (10, 12656), (13, 12578),

Gene: AloeVera_18 Start: 12737, Stop: 12501, Start Num: 6

Candidate Starts for AloeVera_18:

(5, 12776), (Start: 6 @12737 has 2 MA's), (Start: 7 @12731 has 5 MA's), (8, 12698), (9, 12695), (10, 12656), (13, 12578),

Gene: Ashton_18 Start: 12735, Stop: 12505, Start Num: 7

Candidate Starts for Ashton_18:

(5, 12780), (Start: 6 @12741 has 2 MA's), (Start: 7 @12735 has 5 MA's), (8, 12702), (9, 12699), (10, 12660), (13, 12582),

Gene: Barroma_18 Start: 12731, Stop: 12501, Start Num: 7

Candidate Starts for Barroma_18:

(5, 12776), (Start: 6 @12737 has 2 MA's), (Start: 7 @12731 has 5 MA's), (8, 12698), (9, 12695), (10, 12656), (13, 12578),

Gene: Fede_17 Start: 11968, Stop: 11738, Start Num: 7

Candidate Starts for Fede_17:

(1, 12175), (2, 12109), (3, 12070), (4, 12037), (Start: 6 @11974 has 2 MA's), (Start: 7 @11968 has 5 MA's), (11, 11887), (14, 11815), (16, 11770),

Gene: JordanFarm_18 Start: 12731, Stop: 12501, Start Num: 7

Candidate Starts for JordanFarm_18:

(5, 12776), (Start: 6 @12737 has 2 MA's), (Start: 7 @12731 has 5 MA's), (8, 12698), (9, 12695), (10, 12656), (13, 12578),

Gene: Mazun_19 Start: 13006, Stop: 12776, Start Num: 7

Candidate Starts for Mazun_19:

(5, 13051), (Start: 7 @13006 has 5 MA's), (9, 12970), (12, 12907), (13, 12853), (15, 12817),

Gene: Truong_18 Start: 12731, Stop: 12501, Start Num: 7

Candidate Starts for Truong_18:

(5, 12776), (Start: 6 @12737 has 2 MA's), (Start: 7 @12731 has 5 MA's), (8, 12698), (9, 12695), (10, 12656), (13, 12578),

Gene: Waterlily_18 Start: 12773, Stop: 12543, Start Num: 7

Candidate Starts for Waterlily_18:

(5, 12818), (Start: 7 @12773 has 5 MA's), (8, 12740), (9, 12737), (10, 12698), (13, 12620),