



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 158240 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158240 has 16 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Phracted\_38, Pharky\_38, Mazun\_39, PhriedRice\_39, RicoCaldo\_38, Phedro\_38, Fullmetal\_38, StagePhright\_38, Moleficient\_38
- Track 2 : Akoni\_38, JordanFarm\_40, Ashton\_39, AloeVera\_39, Truong\_38, Waterlily\_41
- Track 3 : Barroma\_40

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

The start number called the most often in the published annotations is 1, it was called in 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akoni\_38, AloeVera\_39, Ashton\_39, Barroma\_40, Fullmetal\_38, JordanFarm\_40, Mazun\_39, Moleficient\_38, Pharky\_38, Phedro\_38, Phracted\_38, PhriedRice\_39, RicoCaldo\_38, StagePhright\_38, Truong\_38, Waterlily\_41,

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

- 

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

- 

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

Start 1:

- Found in 16 of 16 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 13 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Akoni\_38 (EK2), AloeVera\_39 (EK2), Ashton\_39 (EK2), Barroma\_40 (EK2), Fullmetal\_38 (EK2), JordanFarm\_40 (EK2), Mazun\_39 (EK2), Moleficient\_38 (EK2), Pharky\_38 (EK2), Phedro\_38 (EK2), Phracted\_38 (EK2), PhriedRice\_39 (EK2), RicoCaldo\_38 (EK2), StagePhright\_38 (EK2), Truong\_38 (EK2), Waterlily\_41 (EK2),

## Summary by clusters:

There is one cluster represented in this pham: EK2

Info for manual annotations of cluster EK2:

•Start number 1 was manually annotated 13 times for cluster EK2.

### **Gene Information:**

Gene: Akoni\_38 Start: 40262, Stop: 40432, Start Num: 1

Candidate Starts for Akoni\_38:

(Start: 1 @40262 has 13 MA's), (2, 40277), (4, 40382),

Gene: AloeVera\_39 Start: 40476, Stop: 40646, Start Num: 1

Candidate Starts for AloeVera\_39:

(Start: 1 @40476 has 13 MA's), (2, 40491), (4, 40596),

Gene: Ashton\_39 Start: 40475, Stop: 40645, Start Num: 1

Candidate Starts for Ashton\_39:

(Start: 1 @40475 has 13 MA's), (2, 40490), (4, 40595),

Gene: Barroma\_40 Start: 40264, Stop: 40434, Start Num: 1

Candidate Starts for Barroma\_40:

(Start: 1 @40264 has 13 MA's), (2, 40279), (3, 40330), (4, 40384),

Gene: Fullmetal\_38 Start: 40401, Stop: 40571, Start Num: 1

Candidate Starts for Fullmetal\_38:

(Start: 1 @40401 has 13 MA's), (4, 40521),

Gene: JordanFarm\_40 Start: 40476, Stop: 40646, Start Num: 1

Candidate Starts for JordanFarm\_40:

(Start: 1 @40476 has 13 MA's), (2, 40491), (4, 40596),

Gene: Mazun\_39 Start: 40723, Stop: 40893, Start Num: 1

Candidate Starts for Mazun\_39:

(Start: 1 @40723 has 13 MA's), (4, 40843),

Gene: Moleficent\_38 Start: 40408, Stop: 40578, Start Num: 1

Candidate Starts for Moleficent\_38:

(Start: 1 @40408 has 13 MA's), (4, 40528),

Gene: Pharky\_38 Start: 40404, Stop: 40574, Start Num: 1

Candidate Starts for Pharky\_38:

(Start: 1 @40404 has 13 MA's), (4, 40524),

Gene: Phedro\_38 Start: 40404, Stop: 40574, Start Num: 1

Candidate Starts for Phedro\_38:

(Start: 1 @40404 has 13 MA's), (4, 40524),

Gene: Phracted\_38 Start: 40404, Stop: 40574, Start Num: 1

Candidate Starts for Phracted\_38:

(Start: 1 @40404 has 13 MA's), (4, 40524),

Gene: PhriedRice\_39 Start: 40508, Stop: 40678, Start Num: 1

Candidate Starts for PhriedRice\_39:

(Start: 1 @40508 has 13 MA's), (4, 40628),

Gene: RicoCaldo\_38 Start: 40486, Stop: 40656, Start Num: 1

Candidate Starts for RicoCaldo\_38:

(Start: 1 @40486 has 13 MA's), (4, 40606),

Gene: StagePhright\_38 Start: 40404, Stop: 40574, Start Num: 1

Candidate Starts for StagePhright\_38:

(Start: 1 @40404 has 13 MA's), (4, 40524),

Gene: Truong\_38 Start: 40264, Stop: 40434, Start Num: 1

Candidate Starts for Truong\_38:

(Start: 1 @40264 has 13 MA's), (2, 40279), (4, 40384),

Gene: Waterlily\_41 Start: 40518, Stop: 40688, Start Num: 1

Candidate Starts for Waterlily\_41:

(Start: 1 @40518 has 13 MA's), (2, 40533), (4, 40638),