



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 198371 Report

This analysis was run 01/18/25 on database version 583.

Pham number 198371 has 23 members, 4 are drafts.

Phages represented in each track:

- Track 1 : AloeVera\_53
- Track 2 : Morrill\_49, Yafa\_53, TrippleS\_51, ThirteenKH\_53, Atraxi\_49
- Track 3 : Fullmetal\_51, Pharky\_51, Phedro\_51, StagePhright\_51, Mazun\_52, Moleficient\_52, RicoCaldo\_51, Astartes\_52, Phracted\_51, PhriedRice\_52
- Track 4 : Waterlily\_55, Barroma\_50, ShyRosie\_54, Truong\_51
- Track 5 : JordanFarm\_53
- Track 6 : Ashton\_52, Akoni\_51

### ***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 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akoni\_51, AloeVera\_53, Ashton\_52, Astartes\_52, Atraxi\_49, Barroma\_50, Fullmetal\_51, JordanFarm\_53, Mazun\_52, Moleficient\_52, Morrill\_49, Pharky\_51, Phedro\_51, Phracted\_51, PhriedRice\_52, RicoCaldo\_51, ShyRosie\_54, StagePhright\_51, ThirteenKH\_53, TrippleS\_51, Truong\_51, Waterlily\_55, Yafa\_53,

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 2:

- Found in 23 of 23 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 19 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Akoni\_51 (EK2), AloeVera\_53 (EK2), Ashton\_52 (EK2), Astartes\_52 (EK2), Atraxi\_49 (EK2), Barroma\_50 (EK2), Fullmetal\_51 (EK2), JordanFarm\_53 (EK2), Mazun\_52 (EK2), Moleficient\_52 (EK2),

Morrill\_49 (EK2), Pharky\_51 (EK2), Phedro\_51 (EK2), Phracted\_51 (EK2), PhriedRice\_52 (EK2), RicoCaldo\_51 (EK2), ShyRosie\_54 (EK2), StagePhright\_51 (EK2), ThirteenKH\_53 (EK2), TrippleS\_51 (EK2), Truong\_51 (EK2), Waterlily\_55 (EK2), Yafa\_53 (EK2),

### **Summary by clusters:**

There is one cluster represented in this pham: EK2

Info for manual annotations of cluster EK2:

•Start number 2 was manually annotated 19 times for cluster EK2.

### **Gene Information:**

Gene: Akoni\_51 Start: 51298, Stop: 51624, Start Num: 2

Candidate Starts for Akoni\_51:

(Start: 2 @51298 has 19 MA's), (5, 51538), (6, 51562),

Gene: AloeVera\_53 Start: 51512, Stop: 51838, Start Num: 2

Candidate Starts for AloeVera\_53:

(1, 51425), (Start: 2 @51512 has 19 MA's), (6, 51776),

Gene: Ashton\_52 Start: 51510, Stop: 51836, Start Num: 2

Candidate Starts for Ashton\_52:

(Start: 2 @51510 has 19 MA's), (5, 51750), (6, 51774),

Gene: Astartes\_52 Start: 51098, Stop: 51427, Start Num: 2

Candidate Starts for Astartes\_52:

(Start: 2 @51098 has 19 MA's), (3, 51185),

Gene: Atraxi\_49 Start: 50892, Stop: 51221, Start Num: 2

Candidate Starts for Atraxi\_49:

(Start: 2 @50892 has 19 MA's), (3, 50979),

Gene: Barroma\_50 Start: 51300, Stop: 51626, Start Num: 2

Candidate Starts for Barroma\_50:

(Start: 2 @51300 has 19 MA's), (6, 51564),

Gene: Fullmetal\_51 Start: 51432, Stop: 51761, Start Num: 2

Candidate Starts for Fullmetal\_51:

(Start: 2 @51432 has 19 MA's), (3, 51519),

Gene: JordanFarm\_53 Start: 51511, Stop: 51837, Start Num: 2

Candidate Starts for JordanFarm\_53:

(Start: 2 @51511 has 19 MA's), (4, 51691), (5, 51751), (6, 51775),

Gene: Mazun\_52 Start: 51836, Stop: 52165, Start Num: 2

Candidate Starts for Mazun\_52:

(Start: 2 @51836 has 19 MA's), (3, 51923),

Gene: Moleficent\_52 Start: 51440, Stop: 51775, Start Num: 2

Candidate Starts for Moleficent\_52:  
(Start: 2 @51440 has 19 MA's), (3, 51527),

Gene: Morrill\_49 Start: 50871, Stop: 51200, Start Num: 2  
Candidate Starts for Morrill\_49:  
(Start: 2 @50871 has 19 MA's), (3, 50958),

Gene: Pharky\_51 Start: 51436, Stop: 51765, Start Num: 2  
Candidate Starts for Pharky\_51:  
(Start: 2 @51436 has 19 MA's), (3, 51523),

Gene: Phedro\_51 Start: 51436, Stop: 51765, Start Num: 2  
Candidate Starts for Phedro\_51:  
(Start: 2 @51436 has 19 MA's), (3, 51523),

Gene: Phracted\_51 Start: 51436, Stop: 51765, Start Num: 2  
Candidate Starts for Phracted\_51:  
(Start: 2 @51436 has 19 MA's), (3, 51523),

Gene: PhriedRice\_52 Start: 51540, Stop: 51869, Start Num: 2  
Candidate Starts for PhriedRice\_52:  
(Start: 2 @51540 has 19 MA's), (3, 51627),

Gene: RicoCaldo\_51 Start: 51518, Stop: 51847, Start Num: 2  
Candidate Starts for RicoCaldo\_51:  
(Start: 2 @51518 has 19 MA's), (3, 51605),

Gene: ShyRosie\_54 Start: 51520, Stop: 51846, Start Num: 2  
Candidate Starts for ShyRosie\_54:  
(Start: 2 @51520 has 19 MA's), (6, 51784),

Gene: StagePhright\_51 Start: 51436, Stop: 51765, Start Num: 2  
Candidate Starts for StagePhright\_51:  
(Start: 2 @51436 has 19 MA's), (3, 51523),

Gene: ThirteenKH\_53 Start: 50880, Stop: 51209, Start Num: 2  
Candidate Starts for ThirteenKH\_53:  
(Start: 2 @50880 has 19 MA's), (3, 50967),

Gene: TrippleS\_51 Start: 51029, Stop: 51358, Start Num: 2  
Candidate Starts for TrippleS\_51:  
(Start: 2 @51029 has 19 MA's), (3, 51116),

Gene: Truong\_51 Start: 51300, Stop: 51626, Start Num: 2  
Candidate Starts for Truong\_51:  
(Start: 2 @51300 has 19 MA's), (6, 51564),

Gene: Waterlily\_55 Start: 51551, Stop: 51877, Start Num: 2  
Candidate Starts for Waterlily\_55:  
(Start: 2 @51551 has 19 MA's), (6, 51815),

Gene: Yafa\_53 Start: 50784, Stop: 51113, Start Num: 2  
Candidate Starts for Yafa\_53:

(Start: 2 @50784 has 19 MA's), (3, 50871),