



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 281050 Report

This analysis was run 02/07/26 on database version 634.

Pham number 281050 has 13 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Hlubikazi\_68, Strokeseat\_68, Mandlovu\_68, Minnie\_70, Sandalphon\_68, Phrann\_58
- Track 2 : Nairb\_45, Bernal13\_46, RonRayGun\_46, Whitty\_45, ZenTime222\_45, Ibrahim\_46
- Track 3 : Mendokysei\_44

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

The start number called the most often in the published annotations is 5, it was called in 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bernal13\_46, Hlubikazi\_68, Ibrahim\_46, Mandlovu\_68, Mendokysei\_44, Minnie\_70, Nairb\_45, Phrann\_58, RonRayGun\_46, Sandalphon\_68, Strokeseat\_68, Whitty\_45, ZenTime222\_45,

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 5:

- Found in 13 of 13 ( 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: Bernal13\_46 (T), Hlubikazi\_68 (F1), Ibrahim\_46 (T), Mandlovu\_68 (F1), Mendokysei\_44 (T), Minnie\_70 (F1), Nairb\_45 (T), Phrann\_58 (N), RonRayGun\_46 (T), Sandalphon\_68 (F1), Strokeseat\_68 (F1), Whitty\_45 (T), ZenTime222\_45 (T),

### **Summary by clusters:**

There are 3 clusters represented in this pham: F1, T, N,

Info for manual annotations of cluster F1:

- Start number 5 was manually annotated 5 times for cluster F1.

Info for manual annotations of cluster N:

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

Info for manual annotations of cluster T:

- Start number 5 was manually annotated 7 times for cluster T.

### ***Gene Information:***

Gene: Bernal13\_46 Start: 34733, Stop: 34924, Start Num: 5

Candidate Starts for Bernal13\_46:

(Start: 5 @34733 has 13 MA's), (6, 34754), (7, 34769), (8, 34784),

Gene: Hlubikazi\_68 Start: 44082, Stop: 44270, Start Num: 5

Candidate Starts for Hlubikazi\_68:

(3, 43989), (4, 44049), (Start: 5 @44082 has 13 MA's), (7, 44118), (8, 44133),

Gene: Ibrahim\_46 Start: 35179, Stop: 35370, Start Num: 5

Candidate Starts for Ibrahim\_46:

(Start: 5 @35179 has 13 MA's), (6, 35200), (7, 35215), (8, 35230),

Gene: Mandlovu\_68 Start: 44024, Stop: 44212, Start Num: 5

Candidate Starts for Mandlovu\_68:

(3, 43931), (4, 43991), (Start: 5 @44024 has 13 MA's), (7, 44060), (8, 44075),

Gene: Mendokysei\_44 Start: 34285, Stop: 34473, Start Num: 5

Candidate Starts for Mendokysei\_44:

(1, 33721), (2, 34033), (Start: 5 @34285 has 13 MA's), (7, 34321), (8, 34336),

Gene: Minnie\_70 Start: 47983, Stop: 48171, Start Num: 5

Candidate Starts for Minnie\_70:

(3, 47890), (4, 47950), (Start: 5 @47983 has 13 MA's), (7, 48019), (8, 48034),

Gene: Nairb\_45 Start: 34733, Stop: 34924, Start Num: 5

Candidate Starts for Nairb\_45:

(Start: 5 @34733 has 13 MA's), (6, 34754), (7, 34769), (8, 34784),

Gene: Phrann\_58 Start: 40465, Stop: 40653, Start Num: 5

Candidate Starts for Phrann\_58:

(3, 40372), (4, 40432), (Start: 5 @40465 has 13 MA's), (7, 40501), (8, 40516),

Gene: RonRayGun\_46 Start: 35179, Stop: 35370, Start Num: 5

Candidate Starts for RonRayGun\_46:

(Start: 5 @35179 has 13 MA's), (6, 35200), (7, 35215), (8, 35230),

Gene: Sandalphon\_68 Start: 45968, Stop: 46156, Start Num: 5

Candidate Starts for Sandalphon\_68:

(3, 45875), (4, 45935), (Start: 5 @45968 has 13 MA's), (7, 46004), (8, 46019),

Gene: Strokeseat\_68 Start: 44081, Stop: 44269, Start Num: 5

Candidate Starts for Strokeseat\_68:

(3, 43988), (4, 44048), (Start: 5 @44081 has 13 MA's), (7, 44117), (8, 44132),

Gene: Whitty\_45 Start: 34734, Stop: 34925, Start Num: 5

Candidate Starts for Whitty\_45:

(Start: 5 @34734 has 13 MA's), (6, 34755), (7, 34770), (8, 34785),

Gene: ZenTime222\_45 Start: 34733, Stop: 34924, Start Num: 5

Candidate Starts for ZenTime222\_45:

(Start: 5 @34733 has 13 MA's), (6, 34754), (7, 34769), (8, 34784),