



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 284300 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284300 has 14 members, 1 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 : Nette_47
- Track 4 : 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:

- Nette_47,

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

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Summary by start number:

Start 5:

- Found in 14 of 14 (100.0%) of genes in pham
- Manual Annotations of this start: 13 of 13
- Called 92.9% 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),

Start 8:

- Found in 14 of 14 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Nette_47 (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: Nette_47 Start: 34345, Stop: 34482, Start Num: 8

Candidate Starts for Nette_47:

(1, 33730), (2, 34042), (Start: 5 @34294 has 13 MA's), (7, 34330), (8, 34345),

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),