



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 278976 Report

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

Pham number 278976 has 7 members, 0 are drafts.

Phages represented in each track:

- Track 1 : YungMoney\_52
- Track 2 : Clown\_58
- Track 3 : DonkeyMan\_33, Tarzan\_33
- Track 4 : Reyja\_33
- Track 5 : Jojo24\_32
- Track 6 : Santhid\_32

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

The start number called the most often in the published annotations is 8, it was called in 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- DonkeyMan\_33, Reyja\_33, Santhid\_32, Tarzan\_33, YungMoney\_52,

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

- Clown\_58, Jojo24\_32,

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

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

Start 2:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Clown\_58 (DC2),

Start 6:

- Found in 5 of 7 ( 71.4% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Jojo24\_32 (DY),

### Start 8:

- Found in 7 of 7 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 5 of 7
- Called 71.4% of time when present
- Phage (with cluster) where this start called: DonkeyMan\_33 (DY), Reyja\_33 (DY), Santhid\_32 (DY), Tarzan\_33 (DY), YungMoney\_52 (DC1),

### Summary by clusters:

There are 3 clusters represented in this pham: DC1, DC2, DY,

Info for manual annotations of cluster DC1:

- Start number 8 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 2 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DY:

- Start number 6 was manually annotated 1 time for cluster DY.
- Start number 8 was manually annotated 4 times for cluster DY.

### **Gene Information:**

Gene: Clown\_58 Start: 43204, Stop: 43470, Start Num: 2

Candidate Starts for Clown\_58:

(1, 43201), (Start: 2 @43204 has 1 MA's), (5, 43222), (7, 43225), (Start: 8 @43246 has 5 MA's), (9, 43294), (13, 43447), (14, 43459),

Gene: DonkeyMan\_33 Start: 27700, Stop: 27903, Start Num: 8

Candidate Starts for DonkeyMan\_33:

(3, 27661), (4, 27664), (Start: 6 @27679 has 1 MA's), (Start: 8 @27700 has 5 MA's), (9, 27748), (10, 27766), (12, 27856),

Gene: Jojo24\_32 Start: 26272, Stop: 26496, Start Num: 6

Candidate Starts for Jojo24\_32:

(4, 26257), (Start: 6 @26272 has 1 MA's), (Start: 8 @26293 has 5 MA's), (9, 26341), (10, 26359), (11, 26428), (12, 26449),

Gene: Reyja\_33 Start: 26649, Stop: 26852, Start Num: 8

Candidate Starts for Reyja\_33:

(Start: 6 @26628 has 1 MA's), (Start: 8 @26649 has 5 MA's), (9, 26697), (10, 26715), (11, 26784), (12, 26805),

Gene: Santhid\_32 Start: 25012, Stop: 25215, Start Num: 8

Candidate Starts for Santhid\_32:

(4, 24976), (Start: 6 @24991 has 1 MA's), (Start: 8 @25012 has 5 MA's), (9, 25060), (10, 25078), (11, 25147), (12, 25168),

Gene: Tarzan\_33 Start: 26182, Stop: 26385, Start Num: 8

Candidate Starts for Tarzan\_33:

(3, 26143), (4, 26146), (Start: 6 @26161 has 1 MA's), (Start: 8 @26182 has 5 MA's), (9, 26230), (10, 26248), (12, 26338),

Gene: YungMoney\_52 Start: 42360, Stop: 42584, Start Num: 8

Candidate Starts for YungMoney\_52:

(Start: 8 @42360 has 5 MA's), (9, 42408), (13, 42561), (14, 42573),