



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 28112 Report

This analysis was run 04/28/24 on database version 559.

Pham number 28112 has 7 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Regigigas\_50, Rainydai\_47
- Track 2 : SendItCS\_45
- Track 3 : Thiqqums\_49, CricKo\_49
- Track 4 : FromIndy\_49
- Track 5 : Miek\_46

### ***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 3 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CricKo\_49, Miek\_46, Thiqqums\_49,

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

- FromIndy\_49, Rainydai\_47, Regigigas\_50, SendItCS\_45,

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

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

Start 4:

- Found in 7 of 7 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 14.3% of time when present
- Phage (with cluster) where this start called: SendItCS\_45 (BI4),

Start 5:

- Found in 7 of 7 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 3 of 5
- Called 42.9% of time when present
- Phage (with cluster) where this start called: CricKo\_49 (BI4), Miek\_46 (BI4), Thiqqums\_49 (BI4),

Start 6:

- Found in 5 of 7 ( 71.4% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 60.0% of time when present
- Phage (with cluster) where this start called: FromIndy\_49 (BI4), Rainydai\_47 (BI4), Regigigas\_50 (BI4),

### **Summary by clusters:**

There is one cluster represented in this pham: BI4

Info for manual annotations of cluster BI4:

- Start number 4 was manually annotated 1 time for cluster BI4.
- Start number 5 was manually annotated 3 times for cluster BI4.
- Start number 6 was manually annotated 1 time for cluster BI4.

### **Gene Information:**

Gene: CricKo\_49 Start: 32190, Stop: 32408, Start Num: 5

Candidate Starts for CricKo\_49:

(Start: 4 @32187 has 1 MA's), (Start: 5 @32190 has 3 MA's), (Start: 6 @32208 has 1 MA's), (7, 32292), (8, 32304),

Gene: FromIndy\_49 Start: 31814, Stop: 32014, Start Num: 6

Candidate Starts for FromIndy\_49:

(1, 31103), (2, 31202), (3, 31208), (Start: 4 @31793 has 1 MA's), (Start: 5 @31796 has 3 MA's), (Start: 6 @31814 has 1 MA's), (7, 31898), (8, 31910),

Gene: Miek\_46 Start: 31515, Stop: 31733, Start Num: 5

Candidate Starts for Miek\_46:

(Start: 4 @31512 has 1 MA's), (Start: 5 @31515 has 3 MA's), (7, 31617), (8, 31629), (9, 31710),

Gene: Rainydai\_47 Start: 32208, Stop: 32408, Start Num: 6

Candidate Starts for Rainydai\_47:

(Start: 4 @32187 has 1 MA's), (Start: 5 @32190 has 3 MA's), (Start: 6 @32208 has 1 MA's), (7, 32292), (8, 32304),

Gene: Regigigas\_50 Start: 32209, Stop: 32409, Start Num: 6

Candidate Starts for Regigigas\_50:

(Start: 4 @32188 has 1 MA's), (Start: 5 @32191 has 3 MA's), (Start: 6 @32209 has 1 MA's), (7, 32293), (8, 32305),

Gene: SendItCS\_45 Start: 31500, Stop: 31721, Start Num: 4

Candidate Starts for SendItCS\_45:

(Start: 4 @31500 has 1 MA's), (Start: 5 @31503 has 3 MA's), (7, 31605), (8, 31617), (9, 31698),

Gene: Thiqqums\_49 Start: 32190, Stop: 32408, Start Num: 5

Candidate Starts for Thiqqums\_49:

(Start: 4 @32187 has 1 MA's), (Start: 5 @32190 has 3 MA's), (Start: 6 @32208 has 1 MA's), (7, 32292), (8, 32304),

