

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 162388 Report

This analysis was run 05/04/24 on database version 560.

Pham number 162388 has 10 members, 7 are drafts.

Phages represented in each track:

Track 1 : Zabiza_21, Jayhawk_21Track 2 : TaiwanKao 21, Llorens 20

Track 3 : Megsy_21Track 4 : Strobilo_17Track 5 : Y10_21, Y2_21Track 6 : Rando14_18

• Track 7 : TClif 19

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

The start number called the most often in the published annotations is 3, it was called in 3 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

Rando14_18, Y10_21, Y2_21,

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

• TClif_19,

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

Jayhawk_21, Llorens_20, Megsy_21, Strobilo_17, TaiwanKao_21, Zabiza_21,

Summary by start number:

Start 3:

- Found in 4 of 10 (40.0%) of genes in pham
- Manual Annotations of this start: 3 of 3
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Rando14_18 (K5), Y10_21 (K4), Y2_21 (K4),

Start 4:

- Found in 2 of 10 (20.0%) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Strobilo_17 (K2), TClif_19 (K6),

Start 5:

- Found in 6 of 10 (60.0%) of genes in pham
- No Manual Annotations of this start.
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Jayhawk_21 (K1), Llorens_20 (K1), Megsy_21 (K1), TaiwanKao_21 (K1), Zabiza_21 (K1),

Summary by clusters:

There are 5 clusters represented in this pham: K2, K1, K6, K5, K4,

Info for manual annotations of cluster K4:

Start number 3 was manually annotated 2 times for cluster K4.

Info for manual annotations of cluster K5:

•Start number 3 was manually annotated 1 time for cluster K5.

Gene Information:

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Gene: Jayhawk 21 Start: 11727, Stop: 12080, Start Num: 5
Candidate Starts for Jayhawk 21:
(2, 11583), (5, 11727), (9, 11853), (11, 11904), (15, 11982), (17, 12018),
Gene: Llorens 20 Start: 11763, Stop: 12116, Start Num: 5
Candidate Starts for Llorens 20:
(5, 11763), (9, 11889), (11, 11940), (15, 12018), (17, 12054),
Gene: Megsy_21 Start: 11696, Stop: 12049, Start Num: 5
Candidate Starts for Megsy 21:
(5, 11696), (7, 11792), (9, 11822), (11, 11873), (15, 11951), (17, 11987),
Gene: Rando14 18 Start: 10595, Stop: 11053, Start Num: 3
Candidate Starts for Rando14 18:
(Start: 3 @ 10595 has 3 MA's), (6, 10772), (12, 10952), (13, 10964), (17, 11006),
Gene: Strobilo 17 Start: 9732, Stop: 10115, Start Num: 4
Candidate Starts for Strobilo 17:
(4, 9732), (6, 9822), (7, 9864), (8, 9876), (12, 10002), (16, 10050), (17, 10056),
Gene: TClif 19 Start: 10668, Stop: 11063, Start Num: 4
Candidate Starts for TClif 19:
(2, 10560), (Start: 3 @ 10581 has 3 MA's), (4, 10668), (5, 10704), (10, 10836), (11, 10881), (15,
10956), (17, 10992),
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Gene: TaiwanKao_21 Start: 11699, Stop: 12052, Start Num: 5

Candidate Starts for TaiwanKao_21: (5, 11699), (9, 11825), (11, 11876), (15, 11954), (17, 11990),

Gene: Y10_21 Start: 12813, Stop: 13310, Start Num: 3 Candidate Starts for Y10_21: (1, 12657), (2, 12792), (Start: 3 @12813 has 3 MA's), (6, 12990), (8, 13044), (11, 13113), (14, 13215),

(15, 13218), (17, 13254), Gene: Y2_21 Start: 12813, Stop: 13310, Start Num: 3

Candidate Starts for Y2_21: (1, 12657), (2, 12792), (Start: 3 @12813 has 3 MA's), (6, 12990), (8, 13044), (11, 13113), (14, 13215), (15, 13218), (17, 13254),

Gene: Zabiza_21 Start: 11724, Stop: 12077, Start Num: 5 Candidate Starts for Zabiza_21: (2, 11580), (5, 11724), (9, 11850), (11, 11901), (15, 11979), (17, 12015),