# Pham 4659



1: Book_36 + 8

2: GrandSlam_36 + 3

3: Parada_36

4: DelRio_37

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 4659 Report

This analysis was run 04/05/24 on database version 557.

Pham number 4659 has 15 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Bock_36, Nadeem_36, Brylie_36, BetterKatz_36, NancyRae_36, Mulch_36, Francois_36, Pimento_35, WheatThin_36
• Track 2 : GrandSlam_36, Hamood_36, Ayotoya_36, Chop_36
• Track 3 : Parada_36
• Track 4 : DelRio_37


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

The start number called the most often in the published annotations is 1, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ayotoya_36, BetterKatz_36, Bock_36, Brylie_36, Chop_36, DelRio_37, Francois_36, GrandSlam_36, Hamood_36, Mulch_36, Nadeem_36, NancyRae_36, Pimento_35, WheatThin_36,

Genes that have the "Most Annotated" start but do not call it:
• Parada_36,

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

**Summary by start number:**

Start 1:
• Found in 15 of 15 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 12 of 13
• Called 93.3% of time when present
• Phage (with cluster) where this start called: Ayotoya_36 (DI), BetterKatz_36 (DI), Bock_36 (DI), Brylie_36 (DI), Chop_36 (DI), DelRio_37 (DI), Francois_36 (DI), GrandSlam_36 (DI), Hamood_36 (DI), Mulch_36 (DI), Nadeem_36 (DI), NancyRae_36 (DI), Pimento_35 (DI), WheatThin_36 (DI),

Start 2:

• Found in 11 of 15 ( 73.3% ) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 9.1% of time when present
• Phage (with cluster) where this start called: Parada_36 (DI),

**Summary by clusters:**

There is one cluster represented in this pham: DI

Info for manual annotations of cluster DI:
•Start number 1 was manually annotated 12 times for cluster DI.
•Start number 2 was manually annotated 1 time for cluster DI.


*Gene Information:*

Gene: Ayotoya_36 Start: 29645, Stop: 29376, Start Num: 1
Candidate Starts for Ayotoya_36:
(Start: 1 @29645 has 12 MA's), (3, 29522), (4, 29450),

Gene: BetterKatz_36 Start: 29115, Stop: 28846, Start Num: 1
Candidate Starts for BetterKatz_36:
(Start: 1 @29115 has 12 MA's), (Start: 2 @29103 has 1 MA's), (3, 28992), (4, 28920), (5, 28908),

Gene: Bock_36 Start: 28865, Stop: 28596, Start Num: 1
Candidate Starts for Bock_36:
(Start: 1 @28865 has 12 MA's), (Start: 2 @28853 has 1 MA's), (3, 28742), (4, 28670), (5, 28658),

Gene: Brylie_36 Start: 28854, Stop: 28585, Start Num: 1
Candidate Starts for Brylie_36:
(Start: 1 @28854 has 12 MA's), (Start: 2 @28842 has 1 MA's), (3, 28731), (4, 28659), (5, 28647),

Gene: Chop_36 Start: 29393, Stop: 29124, Start Num: 1
Candidate Starts for Chop_36:
(Start: 1 @29393 has 12 MA's), (3, 29270), (4, 29198),

Gene: DelRio_37 Start: 30043, Stop: 29774, Start Num: 1
Candidate Starts for DelRio_37:
(Start: 1 @30043 has 12 MA's), (Start: 2 @30031 has 1 MA's), (3, 29920), (4, 29848), (5, 29836),

Gene: Francois_36 Start: 28906, Stop: 28637, Start Num: 1
Candidate Starts for Francois_36:
(Start: 1 @28906 has 12 MA's), (Start: 2 @28894 has 1 MA's), (3, 28783), (4, 28711), (5, 28699),

Gene: GrandSlam_36 Start: 29393, Stop: 29124, Start Num: 1
Candidate Starts for GrandSlam_36:
(Start: 1 @29393 has 12 MA's), (3, 29270), (4, 29198),

Gene: Hamood_36 Start: 29393, Stop: 29124, Start Num: 1
Candidate Starts for Hamood_36:
(Start: 1 @29393 has 12 MA's), (3, 29270), (4, 29198),

Gene: Mulch_36 Start: 28854, Stop: 28585, Start Num: 1
Candidate Starts for Mulch_36:
(Start: 1 @28854 has 12 MA's), (Start: 2 @28842 has 1 MA's), (3, 28731), (4, 28659), (5, 28647),

Gene: Nadeem_36 Start: 28854, Stop: 28585, Start Num: 1
Candidate Starts for Nadeem_36:
(Start: 1 @28854 has 12 MA's), (Start: 2 @28842 has 1 MA's), (3, 28731), (4, 28659), (5, 28647),

Gene: NancyRae_36 Start: 28863, Stop: 28594, Start Num: 1
Candidate Starts for NancyRae_36:
(Start: 1 @28863 has 12 MA's), (Start: 2 @28851 has 1 MA's), (3, 28740), (4, 28668), (5, 28656),

Gene: Parada_36 Start: 28842, Stop: 28585, Start Num: 2
Candidate Starts for Parada_36:
(Start: 1 @28854 has 12 MA's), (Start: 2 @28842 has 1 MA's), (3, 28731), (4, 28659), (5, 28647),

Gene: Pimento_35 Start: 28512, Stop: 28243, Start Num: 1
Candidate Starts for Pimento_35:
(Start: 1 @28512 has 12 MA's), (Start: 2 @28500 has 1 MA's), (3, 28389), (4, 28317), (5, 28305),

Gene: WheatThin_36 Start: 28854, Stop: 28585, Start Num: 1
Candidate Starts for WheatThin_36:
(Start: 1 @28854 has 12 MA's), (Start: 2 @28842 has 1 MA's), (3, 28731), (4, 28659), (5, 28647),