Pham 87637


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 87637 Report

This analysis was run 04/05/24 on database version 557.
Pham number 87637 has 9 members, 1 are drafts.
Phages represented in each track:

- Track 1 : BritBrat 82
- Track 2 : ODay $\overline{91}$
- Track 3 : Periwinkle_93, Horus_85, Leroy_84, Frickyeah_91
- Track 4 : LitninMcQūeen_87, Phistory_81
- Track 5 : Squiddly_86


## 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 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
-Frickyeah_91, Horus_85, Leroy_84, LitninMcQueen_87, ODay_91, Periwinkle_93, Phistory_81,

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

- BritBrat_82, Squiddly_86,


## Summary by start number:

Start 3:

- Found in 7 of 9 ( $77.8 \%$ ) of genes in pham
- Manual Annotations of this start: 6 of 8
- Called $100.0 \%$ of time when present
- Phage (with cluster) where this start called: Frickyeah_91 (DN1), Horus 85 (DN1), Leroy_84 (DN1), LitninMcQueen_87 (DN1), ODay_91 (DN), Periwinkle_93 (DN1),
Phistory_81 (DN1),
Start 4:
- Found in 2 of 9 (22.2\%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called $100.0 \%$ of time when present
- Phage (with cluster) where this start called: BritBrat_82 (CY2), Squiddly_86 (DN2),


## Summary by clusters:

There are 4 clusters represented in this pham: DN, CY2, DN1, DN2,
Info for manual annotations of cluster CY2:

- Start number 4 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster DN:

- Start number 3 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 3 was manually annotated 5 times for cluster DN1.

Info for manual annotations of cluster DN2:
-Start number 4 was manually annotated 1 time for cluster DN2.

## Gene Information:

Gene: BritBrat_82 Start: 49380, Stop: 49751, Start Num: 4
Candidate Starts for BritBrat_82:
(Start: 4 @49380 has 2 MA's), (5, 49419), (7, 49545), (8, 49569), (10, 49638), (11, 49641), (13,
49677), (14, 49692),

Gene: Frickyeah_91 Start: 48182, Stop: 48553, Start Num: 3
Candidate Starts for Frickyeah_91:
(Start: 3 @48182 has 6 MA's), (5, 48221), (7, 48347), (8, 48371), (9, 48410), (10, 48440), (11, 48443), (13, 48479), (14, 48494),

Gene: Horus_85 Start: 48457, Stop: 48828, Start Num: 3
Candidate Starts for Horus_85:
(Start: 3 @48457 has 6 MA's), (5, 48496), (7, 48622), (8, 48646), (9, 48685), (10, 48715), (11, 48718), (13, 48754), (14, 48769),

Gene: Leroy_84 Start: 46652, Stop: 47023, Start Num: 3
Candidate Starts for Leroy_84:
(Start: 3 @46652 has 6 MA's), (5, 46691), (7, 46817), (8, 46841), (9, 46880), (10, 46910), (11, 46913), (13, 46949), (14, 46964),

Gene: LitninMcQueen_87 Start: 47495, Stop: 47866, Start Num: 3
Candidate Starts for LitninMcQueen_87:
(1, 47438), (2, 47447), (Start: 3 @47495 has 6 MA's), (5, 47534), (7, 47660), (8, 47684), (9, 47723), (13, 47792), (14, 47807),

Gene: ODay_91 Start: 49800, Stop: 50171, Start Num: 3
Candidate Starts for ODay_91:
(Start: 3 @49800 has 6 MA's), (5, 49839), (7, 49965), (8, 49989), (9, 50028), (13, 50097), (14, 50112),
Gene: Periwinkle_93 Start: 49459, Stop: 49830, Start Num: 3

Candidate Starts for Periwinkle_93:
(Start: 3 @49459 has 6 MA's), (5, 49498), (7, 49624), (8, 49648), (9, 49687), (10, 49717), (11, 49720), (13, 49756), (14, 49771),

Gene: Phistory_81 Start: 45555, Stop: 45926, Start Num: 3 Candidate Starts for Phistory_81:
(1, 45498), (2, 45507), (Start: 3 @45555 has 6 MA's), (5, 45594), (7, 45720), (8, 45744), (9, 45783), (13, 45852), (14, 45867),

Gene: Squiddly_86 Start: 50755, Stop: 51126, Start Num: 4
Candidate Starts for Squiddly_86:
(Start: 4 @50755 has 2 MA's), (6, 50857), (8, 50944), (9, 50983), (10, 51013), (12, 51019), (13, 51052), (14, 51067),

