Pham 5573


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 5573 Report

This analysis was run 04/05/24 on database version 557.
Pham number 5573 has 11 members, 0 are drafts.
Phages represented in each track:

- Track 1 : Harvey_80, Carthage_83, Hertubise_83, Kikipoo_85, IsaacEli_85,

EmpTee_82, OSmaximus_83, Cōlbert_81, Robyn_84, Daka_85, Prickles_84

## 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 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Carthage_83, Colbert_81, Daka_85, EmpTee_82, Harvey_80, Hertubise_83, IsaacEli_85, Kikipoo_85, OSmaximus_83, Prickles_84, Robyn_84,

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

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

## Summary by start number:

Start 1:

- Found in 11 of 11 ( $100.0 \%$ ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0\% of time when present
- Phage (with cluster) where this start called: Carthage_83 (B1), Colbert_81 (B1),

Daka_85 (B1), EmpTee_82 (B1), Harvey_80 (B1), Hertubise_83 (B1), IsaacEli_85
(B1), Kikipoo_85 (B1), OSmaximus_83 (B1), Prickles_84 (B1), Robyn_84 (B1),

## Summary by clusters:

There is one cluster represented in this pham: B1
Info for manual annotations of cluster B1:

- Start number 1 was manually annotated 11 times for cluster B1.


## Gene Information:

Gene: Carthage_83 Start: 62226, Stop: 62023, Start Num: 1
Candidate Starts for Carthage_83:
(Start: 1 @62226 has 11 MA's), (2, 62205), (3, 62196), (4, 62160), (5, 62148), (6, 62139), (7, 62118), (8, 62067),

Gene: Colbert_81 Start: 61907, Stop: 61704, Start Num: 1
Candidate Starts for Colbert_81:
(Start: 1 @61907 has 11 MA's), (2, 61886), (3, 61877), (4, 61841), (5, 61829), (6, 61820), (7, 61799), (8, 61748),

Gene: Daka_85 Start: 62830, Stop: 62627, Start Num: 1 Candidate Starts for Daka_85:
(Start: 1 @62830 has 11 MA's), (2, 62809), (3, 62800), (4, 62764), (5, 62752), (6, 62743), (7, 62722), (8, 62671),

Gene: EmpTee_82 Start: 62560, Stop: 62357, Start Num: 1
Candidate Starts for EmpTee_82:
(Start: 1 @62560 has 11 MA's), (2, 62539), (3, 62530), (4, 62494), (5, 62482), (6, 62473), (7, 62452), (8, 62401),

Gene: Harvey_80 Start: 62325, Stop: 62122, Start Num: 1
Candidate Starts for Harvey_80:
(Start: 1 @62325 has 11 MA's), (2, 62304), (3, 62295), (4, 62259), (5, 62247), (6, 62238), (7, 62217), (8, 62166),

Gene: Hertubise_83 Start: 62807, Stop: 62604, Start Num: 1
Candidate Starts for Hertubise_83:
(Start: 1 @62807 has 11 MA's), (2, 62786), (3, 62777), (4, 62741), (5, 62729), (6, 62720), (7, 62699), (8, 62648),

Gene: IsaacEli_85 Start: 62970, Stop: 62767, Start Num: 1
Candidate Starts for IsaacEli_85:
(Start: 1 @62970 has 11 MA's), (2, 62949), (3, 62940), (4, 62904), (5, 62892), (6, 62883), (7, 62862), (8, 62811),

Gene: Kikipoo_85 Start: 62970, Stop: 62767, Start Num: 1
Candidate Starts for Kikipoo_85:
(Start: 1 @62970 has 11 MA's), (2, 62949), (3, 62940), (4, 62904), (5, 62892), (6, 62883), (7, 62862), (8, 62811),

Gene: OSmaximus_83 Start: 63307, Stop: 63104, Start Num: 1
Candidate Starts for OSmaximus_83:
(Start: 1 @63307 has 11 MA's), (2, 63286), (3, 63277), (4, 63241), (5, 63229), (6, 63220), (7, 63199), (8, 63148),

Gene: Prickles_84 Start: 62829, Stop: 62626, Start Num: 1
Candidate Starts for Prickles_84:
(Start: 1 @62829 has 11 MA's), (2, 62808), (3, 62799), (4, 62763), (5, 62751), (6, 62742), (7, 62721), $(8,62670)$,

Gene: Robyn_84 Start: 62894, Stop: 62691, Start Num: 1
Candidate Starts for Robyn_84:
(Start: 1 @62894 has 11 MĀ's), (2, 62873), (3, 62864), (4, 62828), (5, 62816), (6, 62807), (7, 62786), $(8,62735)$,

