Pham 291717

1: Vendetta_69 + 1
2: Huffy_69 + 2
3: TinaLin_68 + 1
4: Goib_69
5: Gsput1_61
6: Dardanus_63
7: Schmidt_63

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 291717 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291717 has 11 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Vendetta_69, Splinter_69
• Track 2 : Huffy_69, TZGordon_70, DinoDaryn_69
• Track 3 : TinaLin_68, Banquo_68
• Track 4 : Goib_69
• Track 5 : Gsput1_61
• Track 6 : Dardanus_63
• Track 7 : Schmidt_63

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

The start number called the most often in the published annotations is 9, it was called in 6 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Banquo_68, DinoDaryn_69, Goib_69, Huffy_69, TZGordon_70, TinaLin_68,

Genes that have the "Most Annotated" start but do not call it:
• Gsput1_61, Splinter_69, Vendetta_69,

Genes that do not have the "Most Annotated" start:
• Dardanus_63, Schmidt_63,

Summary by start number:

Start 8:
• Found in 2 of 11 (18.2%) of genes in pham
• Manual Annotations of this start: 2 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dardanus_63 (CU3), Schmidt_63 (CU4),

Start 9:
• Found in 9 of 11 (81.8%) of genes in pham
• Manual Annotations of this start: 6 of 10
• Called 66.7% of time when present

• Phage (with cluster) where this start called: Banquo_68 (CU1), DinoDaryn_69 (CU1), Goib_69 (CU1), Huffy_69 (CU1), TZGordon_70 (CU1), TinaLin_68 (CU1),

Start 11:
• Found in 11 of 11 (100.0%) of genes in pham
• Manual Annotations of this start: 2 of 10
• Called 18.2% of time when present
• Phage (with cluster) where this start called: Splinter_69 (CU1), Vendetta_69 (CU1),

Start 12:
• Found in 1 of 11 (9.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gsput1_61 (CU2),

Summary by clusters:

There are 4 clusters represented in this pham: CU4, CU3, CU2, CU1,

Info for manual annotations of cluster CU1:
•Start number 9 was manually annotated 6 times for cluster CU1.
•Start number 11 was manually annotated 2 times for cluster CU1.

Info for manual annotations of cluster CU3:
•Start number 8 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:
•Start number 8 was manually annotated 1 time for cluster CU4.

Gene Information:

Gene: Banquo_68 Start: 41213, Stop: 41536, Start Num: 9
Candidate Starts for Banquo_68:
(1, 40946), (3, 41144), (Start: 9 @41213 has 6 MA's), (Start: 11 @41240 has 2 MA's), (13, 41297), (14, 41303), (22, 41408), (26, 41453), (28, 41492),

Gene: Dardanus_63 Start: 39624, Stop: 39992, Start Num: 8
Candidate Starts for Dardanus_63:
(2, 39534), (4, 39561), (5, 39564), (Start: 8 @39624 has 2 MA's), (Start: 11 @39651 has 2 MA's), (22, 39855), (27, 39915),

Gene: DinoDaryn_69 Start: 41479, Stop: 41826, Start Num: 9
Candidate Starts for DinoDaryn_69:
(Start: 9 @41479 has 6 MA's), (Start: 11 @41506 has 2 MA's), (14, 41563), (16, 41596), (26, 41731), (27, 41746), (28, 41770), (29, 41779),

Gene: Goib_69 Start: 42589, Stop: 42924, Start Num: 9
Candidate Starts for Goib_69:
(Start: 9 @42589 has 6 MA's), (Start: 11 @42616 has 2 MA's), (13, 42673), (16, 42712), (26, 42829), (27, 42844), (28, 42868), (29, 42877),

Gene: Gsput1_61 Start: 40315, Stop: 40578, Start Num: 12
Candidate Starts for Gsput1_61:
(6, 40255), (7, 40267), (Start: 9 @40273 has 6 MA's), (10, 40297), (Start: 11 @40300 has 2 MA's), (12, 40315), (14, 40363), (17, 40402), (22, 40471), (23, 40480), (25, 40495), (27, 40531),

Gene: Huffy_69 Start: 41479, Stop: 41826, Start Num: 9
Candidate Starts for Huffy_69:
(Start: 9 @41479 has 6 MA's), (Start: 11 @41506 has 2 MA's), (14, 41563), (16, 41596), (26, 41731), (27, 41746), (28, 41770), (29, 41779),

Gene: Schmidt_63 Start: 39059, Stop: 39370, Start Num: 8
Candidate Starts for Schmidt_63:
(5, 38996), (Start: 8 @39059 has 2 MA's), (Start: 11 @39086 has 2 MA's), (15, 39128), (18, 39179), (19, 39206), (20, 39215), (21, 39227), (24, 39251), (27, 39293),

Gene: Splinter_69 Start: 42588, Stop: 42908, Start Num: 11
Candidate Starts for Splinter_69:
(Start: 9 @42561 has 6 MA's), (Start: 11 @42588 has 2 MA's), (14, 42645), (16, 42678), (26, 42813), (27, 42828), (28, 42852), (29, 42861),

Gene: TZGordon_70 Start: 41449, Stop: 41796, Start Num: 9
Candidate Starts for TZGordon_70:
(Start: 9 @41449 has 6 MA's), (Start: 11 @41476 has 2 MA's), (14, 41533), (16, 41566), (26, 41701), (27, 41716), (28, 41740), (29, 41749),

Gene: TinaLin_68 Start: 41133, Stop: 41456, Start Num: 9
Candidate Starts for TinaLin_68:
(1, 40866), (3, 41064), (Start: 9 @41133 has 6 MA's), (Start: 11 @41160 has 2 MA's), (13, 41217), (14, 41223), (22, 41328), (26, 41373), (28, 41412),

Gene: Vendetta_69 Start: 42588, Stop: 42908, Start Num: 11
Candidate Starts for Vendetta_69:
(Start: 9 @42561 has 6 MA's), (Start: 11 @42588 has 2 MA's), (14, 42645), (16, 42678), (26, 42813), (27, 42828), (28, 42852), (29, 42861),