Pham 297362

5 6 9 10 14 15 21 23 29 34 36 37 41 43 46 48
1: Weirdo19_46
16 23 24 28 31 33 34 36 37 43
2: UmaThurman_36
12 15 19 22 23 26 29 30 34 40 44
3: Ichiang_40
12 15 19 22 26 30 34 40 44
4: Halloweekend_38
1 3 4 7 8 11 12 13 15 19 26 34 38 40 44
5: Julie_40
14 15 17 18 20 25 27 29 32 35 39 42 45 47
6: QueenHazel_30 + 1

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 297362 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297362 has 7 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Weirdo19_46
• Track 2 : UmaThurman_36
• Track 3 : Ichiang_40
• Track 4 : Halloweekend_38
• Track 5 : Julie_40
• Track 6 : QueenHazel_30, Xula_29

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

The start number called the most often in the published annotations is 29, it was called in 2 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• QueenHazel_30, Xula_29,

Genes that have the "Most Annotated" start but do not call it:
• Ichiang_40, Weirdo19_46,

Genes that do not have the "Most Annotated" start:
• Halloweekend_38, Julie_40, UmaThurman_36,

Summary by start number:

Start 19:
• Found in 3 of 7 (42.9%) of genes in pham
• Manual Annotations of this start: 1 of 6
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Julie_40 (FF),

Start 23:
• Found in 3 of 7 (42.9%) of genes in pham
• Manual Annotations of this start: 1 of 6
• Called 66.7% of time when present

• Phage (with cluster) where this start called: UmaThurman_36 (CV), Weirdo19_46 (AH),

Start 26:
• Found in 3 of 7 (42.9%) of genes in pham
• Manual Annotations of this start: 2 of 6
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Halloweekend_38 (FF), Ichiang_40 (FF),

Start 29:
• Found in 4 of 7 (57.1%) of genes in pham
• Manual Annotations of this start: 2 of 6
• Called 50.0% of time when present
• Phage (with cluster) where this start called: QueenHazel_30 (I1), Xula_29 (I1),

Summary by clusters:

There are 4 clusters represented in this pham: I1, AH, CV, FF,

Info for manual annotations of cluster CV:
•Start number 23 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster FF:
•Start number 19 was manually annotated 1 time for cluster FF.
•Start number 26 was manually annotated 2 times for cluster FF.

Info for manual annotations of cluster I1:
•Start number 29 was manually annotated 2 times for cluster I1.

Gene Information:

Gene: Halloweekend_38 Start: 29380, Stop: 29045, Start Num: 26
Candidate Starts for Halloweekend_38:
(12, 29566), (15, 29500), (Start: 19 @29464 has 1 MA's), (22, 29410), (Start: 26 @29380 has 2 MA's), (30, 29338), (34, 29257), (40, 29218), (44, 29149),

Gene: Ichiang_40 Start: 29399, Stop: 29064, Start Num: 26
Candidate Starts for Ichiang_40:
(12, 29585), (15, 29519), (Start: 19 @29483 has 1 MA's), (22, 29429), (Start: 23 @29417 has 1 MA's), (Start: 26 @29399 has 2 MA's), (Start: 29 @29363 has 2 MA's), (30, 29357), (34, 29276), (40, 29237), (44, 29168),

Gene: Julie_40 Start: 30481, Stop: 30059, Start Num: 19
Candidate Starts for Julie_40:
(1, 30796), (2, 30769), (3, 30766), (4, 30757), (7, 30679), (8, 30676), (11, 30607), (12, 30583), (13, 30553), (15, 30517), (Start: 19 @30481 has 1 MA's), (Start: 26 @30397 has 2 MA's), (34, 30274), (38, 30253), (40, 30235), (44, 30169),

Gene: QueenHazel_30 Start: 27405, Stop: 27109, Start Num: 29
Candidate Starts for QueenHazel_30:

(14, 27561), (15, 27540), (17, 27531), (18, 27522), (20, 27504), (25, 27444), (27, 27432), (Start: 29 @27405 has 2 MA's), (32, 27363), (35, 27318), (39, 27291), (42, 27282), (45, 27204), (47, 27162),

Gene: UmaThurman_36 Start: 31566, Stop: 31237, Start Num: 23
Candidate Starts for UmaThurman_36:
(16, 31641), (Start: 23 @31566 has 1 MA's), (24, 31560), (28, 31527), (31, 31482), (33, 31452), (34, 31446), (36, 31434), (37, 31428), (43, 31368),

Gene: Weirdo19_46 Start: 34933, Stop: 34580, Start Num: 23
Candidate Starts for Weirdo19_46:
(5, 35212), (6, 35206), (9, 35134), (10, 35116), (14, 35044), (15, 35023), (21, 34987), (Start: 23 @34933 has 1 MA's), (Start: 29 @34879 has 2 MA's), (34, 34798), (36, 34786), (37, 34780), (41, 34750), (43, 34711), (46, 34639), (48, 34594),

Gene: Xula_29 Start: 26929, Stop: 26633, Start Num: 29
Candidate Starts for Xula_29:
(14, 27085), (15, 27064), (17, 27055), (18, 27046), (20, 27028), (25, 26968), (27, 26956), (Start: 29 @26929 has 2 MA's), (32, 26887), (35, 26842), (39, 26815), (42, 26806), (45, 26728), (47, 26686),