



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 293416 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293416 has 9 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Kinmap_42
- Track 2 : Phillis_38
- Track 3 : NearlyHeadless_38, Smeadley_38, Dixon_38, Expelliarmus_37
- Track 4 : Faiyaz_127, Hilltopfarm_129
- Track 5 : Bipper_130

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 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dixon_38, Expelliarmus_37, NearlyHeadless_38, Phillis_38, Smeadley_38,

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

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

- Bipper_130, Faiyaz_127, Hilltopfarm_129, Kinmap_42,

Summary by start number:

Start 1:

- Found in 5 of 9 (55.6%) of genes in pham
- Manual Annotations of this start: 5 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dixon_38 (A8), Expelliarmus_37 (A8), NearlyHeadless_38 (A8), Phillis_38 (A8), Smeadley_38 (A8),

Start 2:

- Found in 1 of 9 (11.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kinmap_42 (A21),

Start 3:

- Found in 3 of 9 (33.3%) of genes in pham
- Manual Annotations of this start: 3 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bipper_130 (Y), Faiyaz_127 (Y), Hilltopfarm_129 (Y),

Summary by clusters:

There are 3 clusters represented in this pham: Y, A8, A21,

Info for manual annotations of cluster A8:

- Start number 1 was manually annotated 5 times for cluster A8.

Info for manual annotations of cluster Y:

- Start number 3 was manually annotated 3 times for cluster Y.

Gene Information:

Gene: Bipper_130 Start: 74639, Stop: 74914, Start Num: 3

Candidate Starts for Bipper_130:

(Start: 3 @74639 has 3 MA's), (4, 74642), (6, 74666), (7, 74690), (8, 74693), (9, 74714), (10, 74717), (15, 74771), (18, 74795), (23, 74870), (24, 74873), (25, 74891),

Gene: Dixon_38 Start: 27897, Stop: 27577, Start Num: 1

Candidate Starts for Dixon_38:

(Start: 1 @27897 has 5 MA's), (11, 27807), (13, 27765), (19, 27720), (20, 27702), (21, 27672), (22, 27663), (26, 27615),

Gene: Expelliarmus_37 Start: 27774, Stop: 27454, Start Num: 1

Candidate Starts for Expelliarmus_37:

(Start: 1 @27774 has 5 MA's), (11, 27684), (13, 27642), (19, 27597), (20, 27579), (21, 27549), (22, 27540), (26, 27492),

Gene: Faiyaz_127 Start: 73078, Stop: 73350, Start Num: 3

Candidate Starts for Faiyaz_127:

(Start: 3 @73078 has 3 MA's), (5, 73096), (7, 73126), (9, 73150), (14, 73204), (17, 73228), (20, 73261), (23, 73306), (24, 73309),

Gene: Hilltopfarm_129 Start: 73903, Stop: 74175, Start Num: 3

Candidate Starts for Hilltopfarm_129:

(Start: 3 @73903 has 3 MA's), (5, 73921), (7, 73951), (9, 73975), (14, 74029), (17, 74053), (20, 74086), (23, 74131), (24, 74134),

Gene: Kinmap_42 Start: 28859, Stop: 28578, Start Num: 2

Candidate Starts for Kinmap_42:

(2, 28859), (12, 28760), (22, 28631),

Gene: NearlyHeadless_38 Start: 27827, Stop: 27507, Start Num: 1

Candidate Starts for NearlyHeadless_38:

(Start: 1 @27827 has 5 MA's), (11, 27737), (13, 27695), (19, 27650), (20, 27632), (21, 27602), (22, 27593), (26, 27545),

Gene: Phillis_38 Start: 27838, Stop: 27518, Start Num: 1

Candidate Starts for Phillis_38:

(Start: 1 @27838 has 5 MA's), (11, 27748), (12, 27733), (13, 27706), (16, 27688), (19, 27661), (20, 27643), (21, 27613), (22, 27604), (26, 27556),

Gene: Smeadley_38 Start: 27896, Stop: 27576, Start Num: 1

Candidate Starts for Smeadley_38:

(Start: 1 @27896 has 5 MA's), (11, 27806), (13, 27764), (19, 27719), (20, 27701), (21, 27671), (22, 27662), (26, 27614),