Pham 284247

1: Squiddly_116
2: Blab_54 + 1
3: Acquire49_97 + 9
4: Calm_70 + 1
5: RunningOnE_51
6: Ibantik_68

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 284247 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284247 has 17 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Squiddly_16
• Track 2 : Blab_54, Squash_60
• Track 3 : Acquire49_97, MAckerman_96, Halena_95, Zaria_98, AvadaKedavra_97, Tyson_99, LeBron_96, UPIE_96, Wyatt2_98, Calm_99
• Track 4 : Calm_70, Wamburgrxpress_69
• Track 5 : RunningOnE_51
• Track 6 : Ibantik_68

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

The start number called the most often in the published annotations is 5, it was called in 12 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acquire49_97, AvadaKedavra_97, Blab_54, Calm_99, Halena_95, LeBron_96, MAckerman_96, Squash_60, Tyson_99, UPIE_96, Wyatt2_98, Zaria_98,

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

Genes that do not have the "Most Annotated" start:
• Calm_70, Ibantik_68, RunningOnE_51, Squiddly_16, Wamburgrxpress_69,

Summary by start number:

Start 3:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Squiddly_16 (DN2),

Start 4:
• Found in 2 of 17 (11.8%) of genes in pham
• No Manual Annotations of this start.

• Called 50.0% of time when present
• Phage (with cluster) where this start called: RunningOnE_51 (UNK),

Start 5:
• Found in 12 of 17 (70.6%) of genes in pham
• Manual Annotations of this start: 12 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acquire49_97 (L1), AvadaKedavra_97 (L1), Blab_54 (EG), Calm_99 (L1), Halena_95 (L1), LeBron_96 (L1), MAckerman_96 (L1), Squash_60 (EG), Tyson_99 (L1), UPIE_96 (L1), Wyatt2_98 (L1), Zaria_98 (L1),

Start 6:
• Found in 2 of 17 (11.8%) of genes in pham
• Manual Annotations of this start: 2 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Calm_70 (L1), Wamburgrxpress_69 (L1),

Start 7:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ibantik_68 (singleton),

Summary by clusters:

There are 5 clusters represented in this pham: DN2, singleton, UNK, EG, L1,

Info for manual annotations of cluster DN2:
•Start number 3 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster EG:
•Start number 5 was manually annotated 2 times for cluster EG.

Info for manual annotations of cluster L1:
•Start number 5 was manually annotated 10 times for cluster L1.
•Start number 6 was manually annotated 2 times for cluster L1.

Gene Information:

Gene: Acquire49_97 Start: 59589, Stop: 60149, Start Num: 5
Candidate Starts for Acquire49_97:
(Start: 5 @59589 has 12 MA's), (13, 59790), (15, 59829), (16, 59844), (28, 59949),

Gene: AvadaKedavra_97 Start: 59701, Stop: 60261, Start Num: 5
Candidate Starts for AvadaKedavra_97:
(Start: 5 @59701 has 12 MA's), (13, 59902), (15, 59941), (16, 59956), (28, 60061),

Gene: Blab_54 Start: 42170, Stop: 41670, Start Num: 5
Candidate Starts for Blab_54:

(Start: 5 @42170 has 12 MA's), (11, 42053), (17, 41930), (20, 41903), (25, 41879), (38, 41714), (41, 41678), (42, 41675),

Gene: Calm_70 Start: 47119, Stop: 47640, Start Num: 6
Candidate Starts for Calm_70:
(Start: 6 @47119 has 2 MA's), (12, 47269), (20, 47377), (23, 47401), (24, 47404), (27, 47431), (29, 47464), (30, 47524), (33, 47560), (35, 47578), (39, 47602),

Gene: Calm_99 Start: 59968, Stop: 60528, Start Num: 5
Candidate Starts for Calm_99:
(Start: 5 @59968 has 12 MA's), (13, 60169), (15, 60208), (16, 60223), (28, 60328),

Gene: Halena_95 Start: 58884, Stop: 59444, Start Num: 5
Candidate Starts for Halena_95:
(Start: 5 @58884 has 12 MA's), (13, 59085), (15, 59124), (16, 59139), (28, 59244),

Gene: Ibantik_68 Start: 30229, Stop: 30804, Start Num: 7
Candidate Starts for Ibantik_68:
(4, 30199), (Start: 7 @30229 has 1 MA's), (13, 30421), (19, 30502), (21, 30526), (32, 30676), (37, 30727), (40, 30760), (43, 30784),

Gene: LeBron_96 Start: 59191, Stop: 59751, Start Num: 5
Candidate Starts for LeBron_96:
(Start: 5 @59191 has 12 MA's), (13, 59392), (15, 59431), (16, 59446), (28, 59551),

Gene: MAckerman_96 Start: 58877, Stop: 59437, Start Num: 5
Candidate Starts for MAckerman_96:
(Start: 5 @58877 has 12 MA's), (13, 59078), (15, 59117), (16, 59132), (28, 59237),

Gene: RunningOnE_51 Start: 22576, Stop: 22007, Start Num: 4
Candidate Starts for RunningOnE_51:
(4, 22576), (11, 22438), (14, 22360), (22, 22261), (36, 22075),

Gene: Squash_60 Start: 43129, Stop: 42629, Start Num: 5
Candidate Starts for Squash_60:
(Start: 5 @43129 has 12 MA's), (11, 43012), (17, 42889), (20, 42862), (25, 42838), (38, 42673), (41, 42637), (42, 42634),

Gene: Squiddly_16 Start: 9132, Stop: 9740, Start Num: 3
Candidate Starts for Squiddly_16:
(1, 9084), (2, 9099), (Start: 3 @9132 has 1 MA's), (8, 9189), (9, 9225), (10, 9267), (11, 9279), (18, 9432), (23, 9480), (26, 9501), (31, 9618), (34, 9648),

Gene: Tyson_99 Start: 60294, Stop: 60854, Start Num: 5
Candidate Starts for Tyson_99:
(Start: 5 @60294 has 12 MA's), (13, 60495), (15, 60534), (16, 60549), (28, 60654),

Gene: UPIE_96 Start: 59534, Stop: 60094, Start Num: 5
Candidate Starts for UPIE_96:
(Start: 5 @59534 has 12 MA's), (13, 59735), (15, 59774), (16, 59789), (28, 59894),

Gene: Wamburgrxpress_69 Start: 47295, Stop: 47816, Start Num: 6
Candidate Starts for Wamburgrxpress_69:

(Start: 6 @47295 has 2 MA's), (12, 47445), (20, 47553), (23, 47577), (24, 47580), (27, 47607), (29, 47640), (30, 47700), (33, 47736), (35, 47754), (39, 47778),

Gene: Wyatt2_98 Start: 59957, Stop: 60517, Start Num: 5
Candidate Starts for Wyatt2_98:
(Start: 5 @59957 has 12 MA's), (13, 60158), (15, 60197), (16, 60212), (28, 60317),

Gene: Zaria_98 Start: 59433, Stop: 59993, Start Num: 5
Candidate Starts for Zaria_98:
(Start: 5 @59433 has 12 MA's), (13, 59634), (15, 59673), (16, 59688), (28, 59793),