Pham 340106


9
15
21
1: Brave_5 + 2
3
9
15
16
21
22
2: Trapezoid_5
9
10
13
15
19
21
3: Razzleberry_5
9
10
13
15
17
19
21
4: Ellison17_5 + 4
9
15
19
21
5: Squall_5
1
2
3
5
9
11
12
14
6: Thatch_5 + 1
4
7
9
11
12
14
7: Transit_5
3
6
8
9
15
18
21
23
8: Pize_5
9
10
15
20
9: Ayka_5
3
9
15
16
21
22
10: Reje_5

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 340106 Report

This analysis was run 11/14/26 on database version 672.

Pham number 340106 has 17 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Brave_5, Penne_5, Fairywren_5
• Track 2 : Trapezoid_5
• Track 3 : Razzleberry_5
• Track 4 : Ellison17_5, Momos_5, Prophecy_5, Mimi16_5, Grotle_5
• Track 5 : Squall_5
• Track 6 : Thatch_5, Mantle_5
• Track 7 : Transit_5
• Track 8 : Pize_5
• Track 9 : Ayka_5
• Track 10 : Reje_5

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 14 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ayka_5, Brave_5, Ellison17_5, Fairywren_5, Grotle_5, Mantle_5, Mimi16_5, Momos_5, Penne_5, Pize_5, Prophecy_5, Razzleberry_5, Squall_5, Thatch_5, Transit_5, Trapezoid_5,

Genes that have the "Most Annotated" start but do not call it:
• Reje_5,

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

Summary by start number:

Start 3:
• Found in 5 of 17 (29.4%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Reje_5 (UNK),

Start 9:
• Found in 17 of 17 (100.0%) of genes in pham
• Manual Annotations of this start: 14 of 14
• Called 94.1% of time when present
• Phage (with cluster) where this start called: Ayka_5 (UNK), Brave_5 (JB1), Ellison17_5 (JB1), Fairywren_5 (JB1), Grotle_5 (JB1), Mantle_5 (JB2), Mimi16_5 (JB1), Momos_5 (JB1), Penne_5 (JB1), Pize_5 (UNK), Prophecy_5 (JB1), Razzleberry_5 (JB1), Squall_5 (JB1), Thatch_5 (JB2), Transit_5 (JB2), Trapezoid_5 (JB1),

Summary by clusters:

There are 3 clusters represented in this pham: UNK, JB2, JB1,

Info for manual annotations of cluster JB1:
•Start number 9 was manually annotated 11 times for cluster JB1.

Info for manual annotations of cluster JB2:
•Start number 9 was manually annotated 3 times for cluster JB2.

Gene Information:

Gene: Ayka_5 Start: 4385, Stop: 4738, Start Num: 9
Candidate Starts for Ayka_5:
(Start: 9 @4385 has 14 MA's), (10, 4391), (15, 4490), (20, 4583),

Gene: Brave_5 Start: 4293, Stop: 4679, Start Num: 9
Candidate Starts for Brave_5:
(Start: 9 @4293 has 14 MA's), (15, 4398), (21, 4494),

Gene: Ellison17_5 Start: 4169, Stop: 4537, Start Num: 9
Candidate Starts for Ellison17_5:
(Start: 9 @4169 has 14 MA's), (10, 4175), (13, 4199), (15, 4274), (17, 4307), (19, 4364), (21, 4370),

Gene: Fairywren_5 Start: 4262, Stop: 4645, Start Num: 9
Candidate Starts for Fairywren_5:
(Start: 9 @4262 has 14 MA's), (15, 4367), (21, 4463),

Gene: Grotle_5 Start: 4128, Stop: 4496, Start Num: 9
Candidate Starts for Grotle_5:
(Start: 9 @4128 has 14 MA's), (10, 4134), (13, 4158), (15, 4233), (17, 4266), (19, 4323), (21, 4329),

Gene: Mantle_5 Start: 4826, Stop: 5188, Start Num: 9
Candidate Starts for Mantle_5:
(1, 4715), (2, 4730), (3, 4745), (5, 4787), (Start: 9 @4826 has 14 MA's), (11, 4835), (12, 4847), (14, 4877),

Gene: Mimi16_5 Start: 4179, Stop: 4547, Start Num: 9
Candidate Starts for Mimi16_5:

(Start: 9 @4179 has 14 MA's), (10, 4185), (13, 4209), (15, 4284), (17, 4317), (19, 4374), (21, 4380),

Gene: Momos_5 Start: 4169, Stop: 4537, Start Num: 9
Candidate Starts for Momos_5:
(Start: 9 @4169 has 14 MA's), (10, 4175), (13, 4199), (15, 4274), (17, 4307), (19, 4364), (21, 4370),

Gene: Penne_5 Start: 4296, Stop: 4682, Start Num: 9
Candidate Starts for Penne_5:
(Start: 9 @4296 has 14 MA's), (15, 4401), (21, 4497),

Gene: Pize_5 Start: 4111, Stop: 4488, Start Num: 9
Candidate Starts for Pize_5:
(3, 4030), (6, 4072), (8, 4090), (Start: 9 @4111 has 14 MA's), (15, 4216), (18, 4267), (21, 4312), (23, 4447),

Gene: Prophecy_5 Start: 4179, Stop: 4547, Start Num: 9
Candidate Starts for Prophecy_5:
(Start: 9 @4179 has 14 MA's), (10, 4185), (13, 4209), (15, 4284), (17, 4317), (19, 4374), (21, 4380),

Gene: Razzleberry_5 Start: 4146, Stop: 4499, Start Num: 9
Candidate Starts for Razzleberry_5:
(Start: 9 @4146 has 14 MA's), (10, 4152), (13, 4176), (15, 4251), (19, 4341), (21, 4347),

Gene: Reje_5 Start: 4056, Stop: 4508, Start Num: 3
Candidate Starts for Reje_5:
(3, 4056), (Start: 9 @4143 has 14 MA's), (15, 4248), (16, 4278), (21, 4344), (22, 4362),

Gene: Squall_5 Start: 4263, Stop: 4649, Start Num: 9
Candidate Starts for Squall_5:
(Start: 9 @4263 has 14 MA's), (15, 4368), (19, 4458), (21, 4464),

Gene: Thatch_5 Start: 4607, Stop: 4969, Start Num: 9
Candidate Starts for Thatch_5:
(1, 4496), (2, 4511), (3, 4526), (5, 4568), (Start: 9 @4607 has 14 MA's), (11, 4616), (12, 4628), (14, 4658),

Gene: Transit_5 Start: 4648, Stop: 5010, Start Num: 9
Candidate Starts for Transit_5:
(4, 4594), (7, 4612), (Start: 9 @4648 has 14 MA's), (11, 4657), (12, 4669), (14, 4699),

Gene: Trapezoid_5 Start: 4176, Stop: 4541, Start Num: 9
Candidate Starts for Trapezoid_5:
(3, 4089), (Start: 9 @4176 has 14 MA's), (15, 4281), (16, 4311), (21, 4377), (22, 4395),