

Pham 200767



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 200767 Report

This analysis was run 01/25/25 on database version 584.

Pham number 200767 has 16 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Brave\_5, Penne\_5, Fairywren\_5
- Track 2 : Trapezoid\_5
- Track 3 : Ellison17\_5, Momos\_5, Prophecy\_5, Mimi16\_5, Grotle\_5
- Track 4 : Squall\_5
- Track 5 : Thatch\_5, Mantle\_5
- Track 6 : Transit\_5
- Track 7 : Pize\_5
- Track 8 : Ayka\_5
- Track 9 : 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 13 of the 13 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, 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:

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### **Summary by start number:**

Start 3:

- Found in 5 of 16 ( 31.2% ) 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 16 of 16 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 13 of 13
- Called 93.8% of time when present
- Phage (with cluster) where this start called: Ayka\_5 (UNK), Brave\_5 (JB), Ellison17\_5 (JB), Fairywren\_5 (JB), Grotle\_5 (JB), Mantle\_5 (JC), Mimi16\_5 (JB), Momos\_5 (JB), Penne\_5 (JB), Pize\_5 (UNK), Prophecy\_5 (JB), Squall\_5 (JB), Thatch\_5 (JC), Transit\_5 (JC), Trapezoid\_5 (JB),

### **Summary by clusters:**

There are 3 clusters represented in this pham: UNK, JB, JC,

Info for manual annotations of cluster JB:

- Start number 9 was manually annotated 10 times for cluster JB.

Info for manual annotations of cluster JC:

- Start number 9 was manually annotated 3 times for cluster JC.

### **Gene Information:**

Gene: Ayka\_5 Start: 4385, Stop: 4738, Start Num: 9

Candidate Starts for Ayka\_5:

(Start: 9 @4385 has 13 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 13 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 13 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 13 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 13 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 13 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 13 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 13 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 13 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 13 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 13 MA's), (10, 4185), (13, 4209), (15, 4284), (17, 4317), (19, 4374), (21, 4380),

Gene: Reje\_5 Start: 4056, Stop: 4508, Start Num: 3

Candidate Starts for Reje\_5:

(3, 4056), (Start: 9 @4143 has 13 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 13 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 13 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 13 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 13 MA's), (15, 4281), (16, 4311), (21, 4377), (22, 4395),