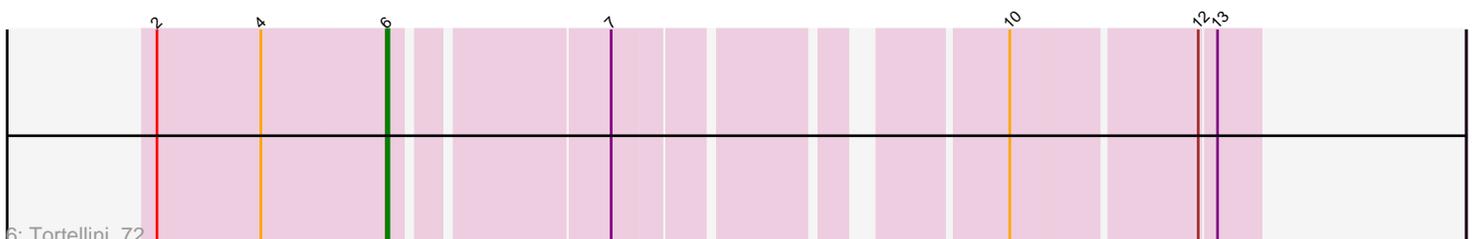
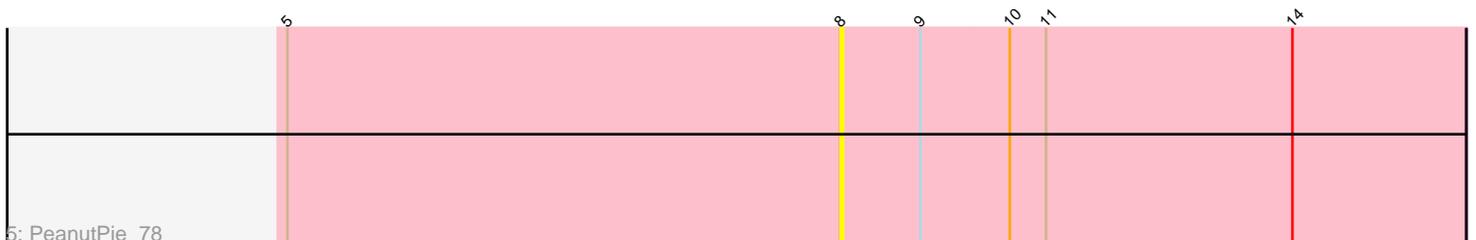
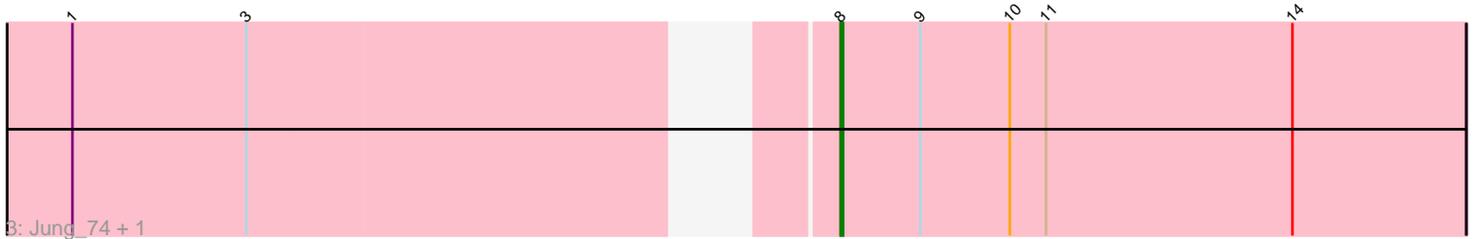


Pham 291646



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 291646 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291646 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Atcoo\_75, Sonah\_78, Brusacoram\_75, FirstPlacePfu\_79, BronnyJr\_70, Thespis\_75, Camster\_77
- Track 2 : Malithi\_76
- Track 3 : Jung\_74, StevieRay\_78
- Track 4 : Bunnies\_78, Bhagsy\_79, Ksquared\_77
- Track 5 : PeanutPie\_78
- Track 6 : Tortellini\_72

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

The start number called the most often in the published annotations is 8, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Atcoo\_75, Bhagsy\_79, BronnyJr\_70, Brusacoram\_75, Bunnies\_78, Camster\_77, FirstPlacePfu\_79, Jung\_74, Ksquared\_77, Malithi\_76, PeanutPie\_78, Sonah\_78, StevieRay\_78, Thespis\_75,

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

- 

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

- Tortellini\_72,

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

Start 6:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tortellini\_72 (P2),

Start 8:

- Found in 14 of 15 ( 93.3% ) of genes in pham

- Manual Annotations of this start: 12 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atcoo\_75 (P1), Bhagsy\_79 (P1), BronnyJr\_70 (P1), Brusacoram\_75 (P1), Bunnies\_78 (P1), Camster\_77 (P1), FirstPlacePfu\_79 (P1), Jung\_74 (P1), Ksquared\_77 (P1), Malithi\_76 (P1), PeanutPie\_78 (P1), Sonah\_78 (P1), StevieRay\_78 (P1), Thespis\_75 (P1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: P2, P1,

Info for manual annotations of cluster P1:

- Start number 8 was manually annotated 12 times for cluster P1.

Info for manual annotations of cluster P2:

- Start number 6 was manually annotated 1 time for cluster P2.

### **Gene Information:**

Gene: Atcoo\_75 Start: 47621, Stop: 47878, Start Num: 8

Candidate Starts for Atcoo\_75:

(1, 47309), (3, 47381), (Start: 8 @47621 has 12 MA's), (9, 47654), (10, 47690), (11, 47705), (14, 47807),

Gene: Bhagsy\_79 Start: 46742, Stop: 46999, Start Num: 8

Candidate Starts for Bhagsy\_79:

(1, 46427), (3, 46499), (Start: 8 @46742 has 12 MA's), (9, 46775), (10, 46811), (11, 46826), (14, 46928),

Gene: BronnyJr\_70 Start: 45686, Stop: 45943, Start Num: 8

Candidate Starts for BronnyJr\_70:

(1, 45374), (3, 45446), (Start: 8 @45686 has 12 MA's), (9, 45719), (10, 45755), (11, 45770), (14, 45872),

Gene: Brusacoram\_75 Start: 46164, Stop: 46421, Start Num: 8

Candidate Starts for Brusacoram\_75:

(1, 45852), (3, 45924), (Start: 8 @46164 has 12 MA's), (9, 46197), (10, 46233), (11, 46248), (14, 46350),

Gene: Bunnies\_78 Start: 47369, Stop: 47626, Start Num: 8

Candidate Starts for Bunnies\_78:

(1, 47054), (3, 47126), (Start: 8 @47369 has 12 MA's), (9, 47402), (10, 47438), (11, 47453), (14, 47555),

Gene: Camster\_77 Start: 45696, Stop: 45953, Start Num: 8

Candidate Starts for Camster\_77:

(1, 45384), (3, 45456), (Start: 8 @45696 has 12 MA's), (9, 45729), (10, 45765), (11, 45780), (14, 45882),

Gene: FirstPlacePfu\_79 Start: 44227, Stop: 44484, Start Num: 8

Candidate Starts for FirstPlacePfu\_79:

(1, 43915), (3, 43987), (Start: 8 @44227 has 12 MA's), (9, 44260), (10, 44296), (11, 44311), (14, 44413),

Gene: Jung\_74 Start: 45106, Stop: 45363, Start Num: 8

Candidate Starts for Jung\_74:

(1, 44830), (3, 44902), (Start: 8 @45106 has 12 MA's), (9, 45139), (10, 45175), (11, 45190), (14, 45292),

Gene: Ksquared\_77 Start: 47246, Stop: 47503, Start Num: 8

Candidate Starts for Ksquared\_77:

(1, 46931), (3, 47003), (Start: 8 @47246 has 12 MA's), (9, 47279), (10, 47315), (11, 47330), (14, 47432),

Gene: Malithi\_76 Start: 45416, Stop: 45673, Start Num: 8

Candidate Starts for Malithi\_76:

(1, 45104), (3, 45176), (Start: 8 @45416 has 12 MA's), (9, 45449), (10, 45485), (11, 45500), (14, 45602), (15, 45656),

Gene: PeanutPie\_78 Start: 46746, Stop: 47003, Start Num: 8

Candidate Starts for PeanutPie\_78:

(5, 46518), (Start: 8 @46746 has 12 MA's), (9, 46779), (10, 46815), (11, 46830), (14, 46932),

Gene: Sonah\_78 Start: 44961, Stop: 45218, Start Num: 8

Candidate Starts for Sonah\_78:

(1, 44649), (3, 44721), (Start: 8 @44961 has 12 MA's), (9, 44994), (10, 45030), (11, 45045), (14, 45147),

Gene: StevieRay\_78 Start: 47362, Stop: 47619, Start Num: 8

Candidate Starts for StevieRay\_78:

(1, 47086), (3, 47158), (Start: 8 @47362 has 12 MA's), (9, 47395), (10, 47431), (11, 47446), (14, 47548),

Gene: Thespis\_75 Start: 46164, Stop: 46421, Start Num: 8

Candidate Starts for Thespis\_75:

(1, 45852), (3, 45924), (Start: 8 @46164 has 12 MA's), (9, 46197), (10, 46233), (11, 46248), (14, 46350),

Gene: Tortellini\_72 Start: 47805, Stop: 48116, Start Num: 6

Candidate Starts for Tortellini\_72:

(2, 47712), (4, 47754), (Start: 6 @47805 has 1 MA's), (7, 47886), (10, 48021), (12, 48093), (13, 48099),