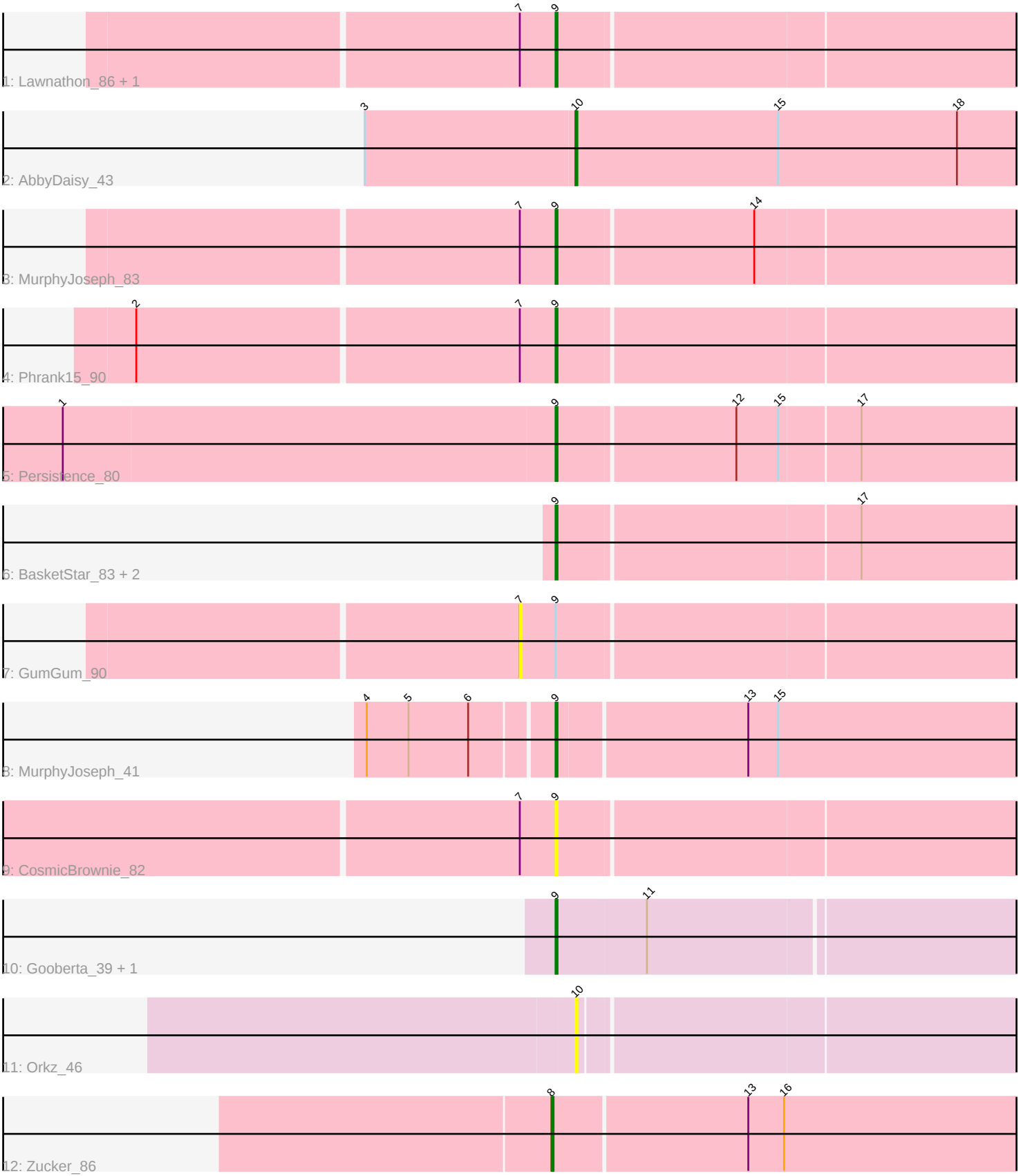


Pham 309478



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 309478 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309478 has 16 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Lawnathon_86, Nyilah_90
- Track 2 : AbbyDaisy_43
- Track 3 : MurphyJoseph_83
- Track 4 : Phrank15_90
- Track 5 : Persistence_80
- Track 6 : BasketStar_83, Hillester_87, RadFad_88
- Track 7 : GumGum_90
- Track 8 : MurphyJoseph_41
- Track 9 : CosmicBrownie_82
- Track 10 : Gooberta_39, GoldDust_39
- Track 11 : Orkz_46
- Track 12 : Zucker_86

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 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BasketStar_83, CosmicBrownie_82, GoldDust_39, Gooberta_39, Hillester_87, Lawnathon_86, MurphyJoseph_41, MurphyJoseph_83, Nyilah_90, Persistence_80, Phrank15_90, RadFad_88,

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

- GumGum_90,

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

- AbbyDaisy_43, Orkz_46, Zucker_86,

Summary by start number:

Start 7:

- Found in 6 of 16 (37.5%) of genes in pham
- No Manual Annotations of this start.

- Called 16.7% of time when present
- Phage (with cluster) where this start called: GumGum_90 (AY),

Start 8:

- Found in 1 of 16 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zucker_86 (FN),

Start 9:

- Found in 13 of 16 (81.2%) of genes in pham
- Manual Annotations of this start: 9 of 11
- Called 92.3% of time when present
- Phage (with cluster) where this start called: BasketStar_83 (AY), CosmicBrownie_82 (AY), GoldDust_39 (FL), Gooberta_39 (FL), Hillester_87 (AY), Lawnathon_86 (AY), MurphyJoseph_41 (AY), MurphyJoseph_83 (AY), Nyilah_90 (AY), Persistence_80 (AY), Phrank15_90 (AY), RadFad_88 (AY),

Start 10:

- Found in 2 of 16 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_43 (AY), Orkz_46 (FL),

Summary by clusters:

There are 3 clusters represented in this pham: AY, FL, FN,

Info for manual annotations of cluster AY:

- Start number 9 was manually annotated 7 times for cluster AY.
- Start number 10 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FL:

- Start number 9 was manually annotated 2 times for cluster FL.

Info for manual annotations of cluster FN:

- Start number 8 was manually annotated 1 time for cluster FN.

Gene Information:

Gene: AbbyDaisy_43 Start: 29378, Stop: 29635, Start Num: 10

Candidate Starts for AbbyDaisy_43:

(3, 29273), (Start: 10 @29378 has 1 MA's), (15, 29480), (18, 29570),

Gene: BasketStar_83 Start: 47700, Stop: 47972, Start Num: 9

Candidate Starts for BasketStar_83:

(Start: 9 @47700 has 9 MA's), (17, 47847),

Gene: CosmicBrownie_82 Start: 46238, Stop: 46519, Start Num: 9

Candidate Starts for CosmicBrownie_82:

(7, 46220), (Start: 9 @46238 has 9 MA's),

Gene: GoldDust_39 Start: 33403, Stop: 33669, Start Num: 9
Candidate Starts for GoldDust_39:
(Start: 9 @33403 has 9 MA's), (11, 33448),

Gene: Gooberta_39 Start: 33402, Stop: 33668, Start Num: 9
Candidate Starts for Gooberta_39:
(Start: 9 @33402 has 9 MA's), (11, 33447),

Gene: GumGum_90 Start: 48184, Stop: 48483, Start Num: 7
Candidate Starts for GumGum_90:
(7, 48184), (Start: 9 @48202 has 9 MA's),

Gene: Hillester_87 Start: 47827, Stop: 48099, Start Num: 9
Candidate Starts for Hillester_87:
(Start: 9 @47827 has 9 MA's), (17, 47974),

Gene: Lawnathon_86 Start: 47274, Stop: 47555, Start Num: 9
Candidate Starts for Lawnathon_86:
(7, 47256), (Start: 9 @47274 has 9 MA's),

Gene: MurphyJoseph_83 Start: 46126, Stop: 46407, Start Num: 9
Candidate Starts for MurphyJoseph_83:
(7, 46108), (Start: 9 @46126 has 9 MA's), (14, 46222),

Gene: MurphyJoseph_41 Start: 28255, Stop: 28521, Start Num: 9
Candidate Starts for MurphyJoseph_41:
(4, 28165), (5, 28186), (6, 28216), (Start: 9 @28255 has 9 MA's), (13, 28348), (15, 28363),

Gene: Nyilah_90 Start: 47422, Stop: 47703, Start Num: 9
Candidate Starts for Nyilah_90:
(7, 47404), (Start: 9 @47422 has 9 MA's),

Gene: Orkz_46 Start: 31494, Stop: 31757, Start Num: 10
Candidate Starts for Orkz_46:
(Start: 10 @31494 has 1 MA's),

Gene: Persistence_80 Start: 46030, Stop: 46308, Start Num: 9
Candidate Starts for Persistence_80:
(1, 45784), (Start: 9 @46030 has 9 MA's), (12, 46117), (15, 46138), (17, 46177),

Gene: Phrank15_90 Start: 48510, Stop: 48791, Start Num: 9
Candidate Starts for Phrank15_90:
(2, 48303), (7, 48492), (Start: 9 @48510 has 9 MA's),

Gene: RadFad_88 Start: 47827, Stop: 48099, Start Num: 9
Candidate Starts for RadFad_88:
(Start: 9 @47827 has 9 MA's), (17, 47974),

Gene: Zucker_86 Start: 49963, Stop: 50232, Start Num: 8
Candidate Starts for Zucker_86:
(Start: 8 @49963 has 1 MA's), (13, 50059), (16, 50077),