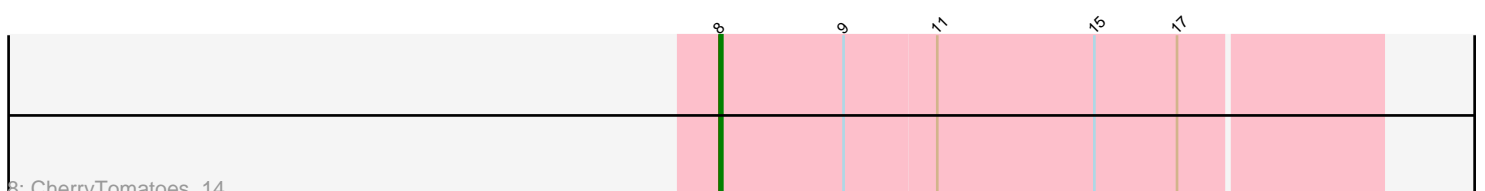
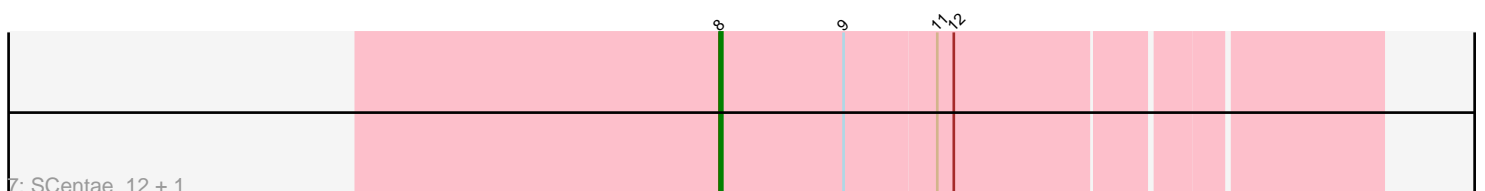
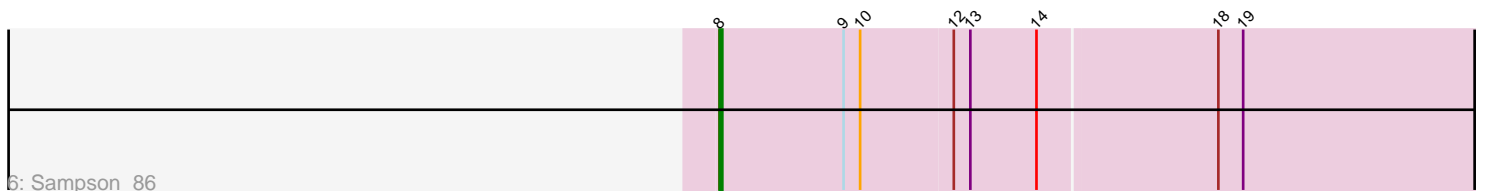
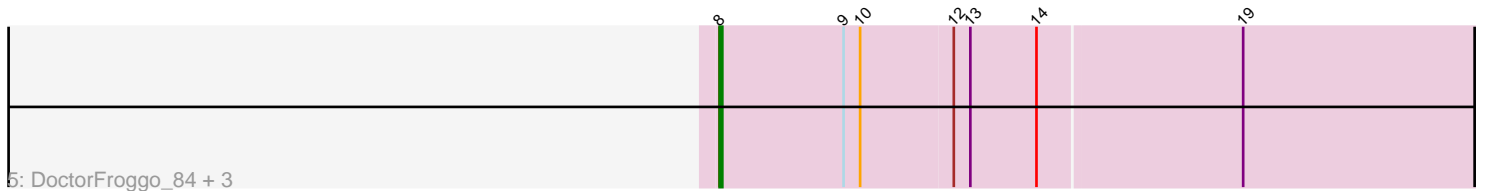
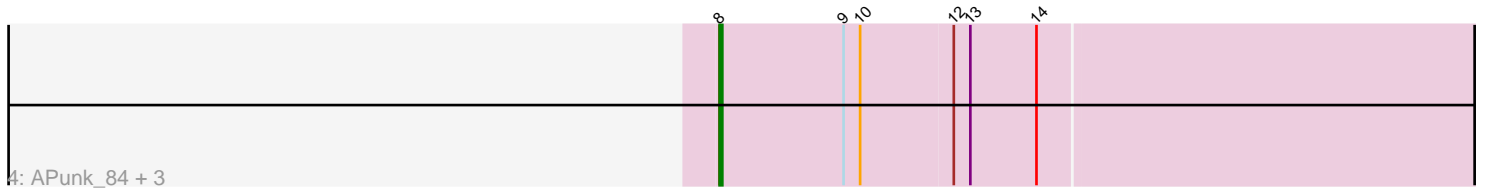
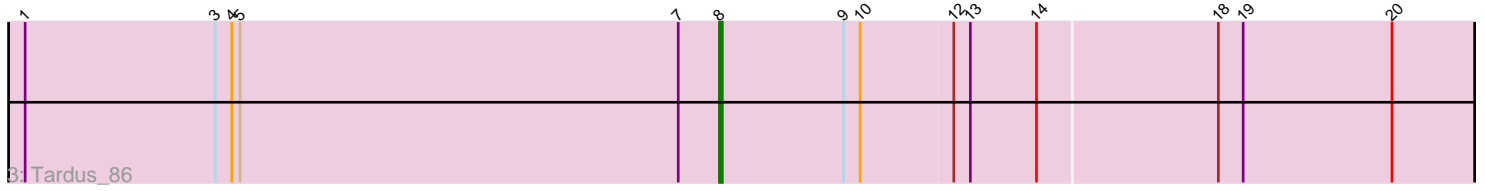
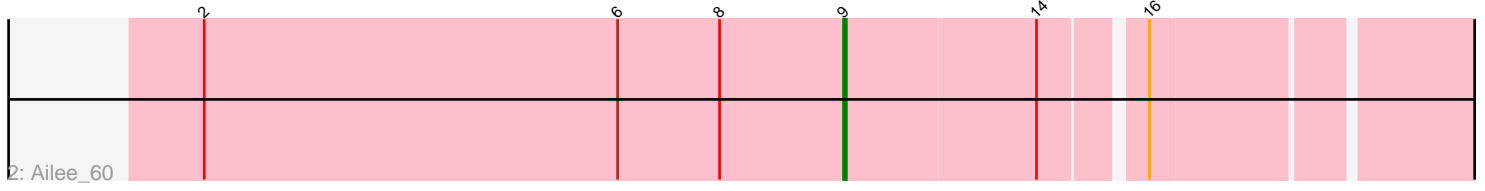
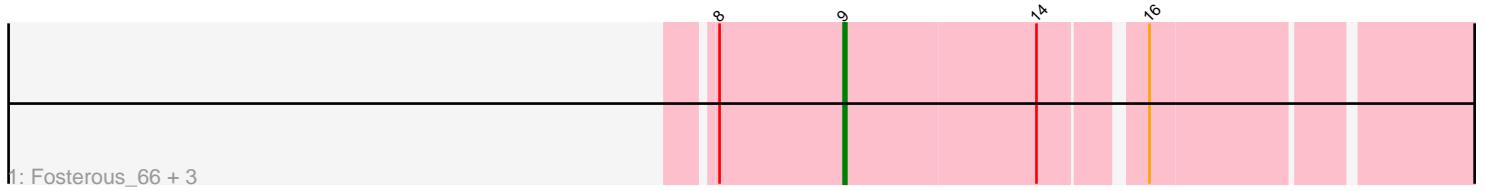


Pham 297016



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 297016 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297016 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Fosterous_66, Nordenberg_61, Tangent_65, Rofo_63
- Track 2 : Ailee_60
- Track 3 : Tardus_86
- Track 4 : APunk_84, BigHunkinEater_84, Zitch_86, Pumpkiney_84
- Track 5 : DoctorFroggo_84, Verity_83, Delrey21_84, Zipp_84
- Track 6 : Sampson_86
- Track 7 : SCentae_12, Pupper_12
- Track 8 : CherryTomatoes_14

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 11 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- APunk_84, BigHunkinEater_84, CherryTomatoes_14, Delrey21_84, DoctorFroggo_84, Pumpkiney_84, Pupper_12, SCentae_12, Sampson_86, Tardus_86, Verity_83, Zipp_84, Zitch_86,

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

- Ailee_60, Fosterous_66, Nordenberg_61, Rofo_63, Tangent_65,

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

-

Summary by start number:

Start 8:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 11 of 16
- Called 72.2% of time when present
- Phage (with cluster) where this start called: APunk_84 (DE4), BigHunkinEater_84 (DE4), CherryTomatoes_14 (DO), Delrey21_84 (DE4), DoctorFroggo_84 (DE4), Pumpkiney_84 (DE4), Pupper_12 (DO), SCentae_12 (DO), Sampson_86 (DE4),

Tardus_86 (DE4), Verity_83 (DE4), Zipp_84 (DE4), Zitch_86 (DE4),

Start 9:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 5 of 16
- Called 27.8% of time when present
- Phage (with cluster) where this start called: Ailee_60 (DE1), Fosterous_66 (DE1), Nordenberg_61 (DE1), Rofo_63 (DE1), Tangent_65 (DE1),

Summary by clusters:

There are 3 clusters represented in this pham: DE1, DE4, DO,

Info for manual annotations of cluster DE1:

- Start number 9 was manually annotated 5 times for cluster DE1.

Info for manual annotations of cluster DE4:

- Start number 8 was manually annotated 8 times for cluster DE4.

Info for manual annotations of cluster DO:

- Start number 8 was manually annotated 3 times for cluster DO.

Gene Information:

Gene: APunk_84 Start: 57342, Stop: 57623, Start Num: 8

Candidate Starts for APunk_84:

(Start: 8 @57342 has 11 MA's), (Start: 9 @57387 has 5 MA's), (10, 57393), (12, 57426), (13, 57432), (14, 57456),

Gene: Ailee_60 Start: 49680, Stop: 49901, Start Num: 9

Candidate Starts for Ailee_60:

(2, 49449), (6, 49599), (Start: 8 @49635 has 11 MA's), (Start: 9 @49680 has 5 MA's), (14, 49749), (16, 49782),

Gene: BigHunkinEater_84 Start: 56970, Stop: 57251, Start Num: 8

Candidate Starts for BigHunkinEater_84:

(Start: 8 @56970 has 11 MA's), (Start: 9 @57015 has 5 MA's), (10, 57021), (12, 57054), (13, 57060), (14, 57084),

Gene: CherryTomatoes_14 Start: 4328, Stop: 4564, Start Num: 8

Candidate Starts for CherryTomatoes_14:

(Start: 8 @4328 has 11 MA's), (Start: 9 @4373 has 5 MA's), (11, 4406), (15, 4463), (17, 4493),

Gene: Delrey21_84 Start: 58911, Stop: 59192, Start Num: 8

Candidate Starts for Delrey21_84:

(Start: 8 @58911 has 11 MA's), (Start: 9 @58956 has 5 MA's), (10, 58962), (12, 58995), (13, 59001), (14, 59025), (19, 59097),

Gene: DoctorFroggo_84 Start: 58911, Stop: 59192, Start Num: 8

Candidate Starts for DoctorFroggo_84:

(Start: 8 @58911 has 11 MA's), (Start: 9 @58956 has 5 MA's), (10, 58962), (12, 58995), (13, 59001), (14, 59025), (19, 59097),

Gene: Fosterous_66 Start: 50519, Stop: 50740, Start Num: 9

Candidate Starts for Fosterous_66:

(Start: 8 @50474 has 11 MA's), (Start: 9 @50519 has 5 MA's), (14, 50588), (16, 50621),

Gene: Nordenberg_61 Start: 49089, Stop: 49310, Start Num: 9

Candidate Starts for Nordenberg_61:

(Start: 8 @49044 has 11 MA's), (Start: 9 @49089 has 5 MA's), (14, 49158), (16, 49191),

Gene: Pumpkiney_84 Start: 56098, Stop: 56370, Start Num: 8

Candidate Starts for Pumpkiney_84:

(Start: 8 @56098 has 11 MA's), (Start: 9 @56143 has 5 MA's), (10, 56149), (12, 56182), (13, 56188), (14, 56212),

Gene: Pupper_12 Start: 4107, Stop: 4337, Start Num: 8

Candidate Starts for Pupper_12:

(Start: 8 @4107 has 11 MA's), (Start: 9 @4152 has 5 MA's), (11, 4185), (12, 4191),

Gene: Rofo_63 Start: 50101, Stop: 50322, Start Num: 9

Candidate Starts for Rofo_63:

(Start: 8 @50056 has 11 MA's), (Start: 9 @50101 has 5 MA's), (14, 50170), (16, 50203),

Gene: SCentae_12 Start: 4106, Stop: 4336, Start Num: 8

Candidate Starts for SCentae_12:

(Start: 8 @4106 has 11 MA's), (Start: 9 @4151 has 5 MA's), (11, 4184), (12, 4190),

Gene: Sampson_86 Start: 57651, Stop: 57932, Start Num: 8

Candidate Starts for Sampson_86:

(Start: 8 @57651 has 11 MA's), (Start: 9 @57696 has 5 MA's), (10, 57702), (12, 57735), (13, 57741), (14, 57765), (18, 57828), (19, 57837),

Gene: Tangent_65 Start: 49806, Stop: 50027, Start Num: 9

Candidate Starts for Tangent_65:

(Start: 8 @49761 has 11 MA's), (Start: 9 @49806 has 5 MA's), (14, 49875), (16, 49908),

Gene: Tardus_86 Start: 57993, Stop: 58274, Start Num: 8

Candidate Starts for Tardus_86:

(1, 57741), (3, 57810), (4, 57816), (5, 57819), (7, 57978), (Start: 8 @57993 has 11 MA's), (Start: 9 @58038 has 5 MA's), (10, 58044), (12, 58077), (13, 58083), (14, 58107), (18, 58170), (19, 58179), (20, 58233),

Gene: Verity_83 Start: 58773, Stop: 59054, Start Num: 8

Candidate Starts for Verity_83:

(Start: 8 @58773 has 11 MA's), (Start: 9 @58818 has 5 MA's), (10, 58824), (12, 58857), (13, 58863), (14, 58887), (19, 58959),

Gene: Zipp_84 Start: 58654, Stop: 58935, Start Num: 8

Candidate Starts for Zipp_84:

(Start: 8 @58654 has 11 MA's), (Start: 9 @58699 has 5 MA's), (10, 58705), (12, 58738), (13, 58744), (14, 58768), (19, 58840),

Gene: Zitch_86 Start: 56966, Stop: 57247, Start Num: 8

Candidate Starts for Zitch_86:

(Start: 8 @56966 has 11 MA's), (Start: 9 @57011 has 5 MA's), (10, 57017), (12, 57050), (13, 57056), (14, 57080),