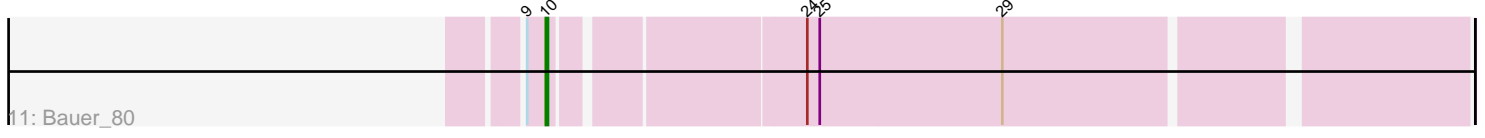
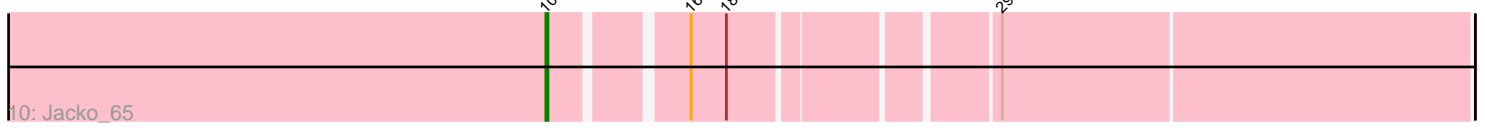
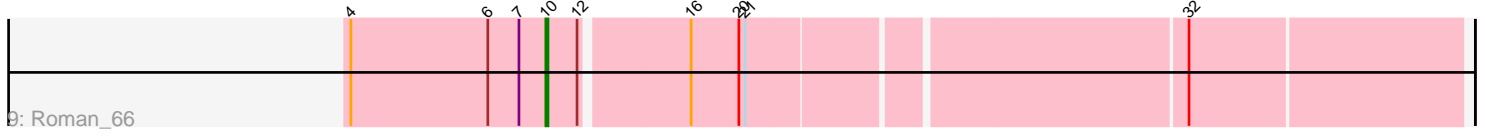
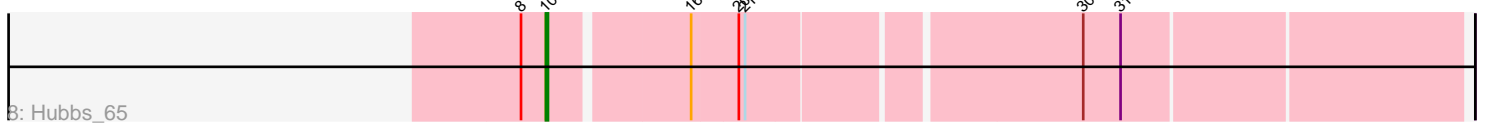
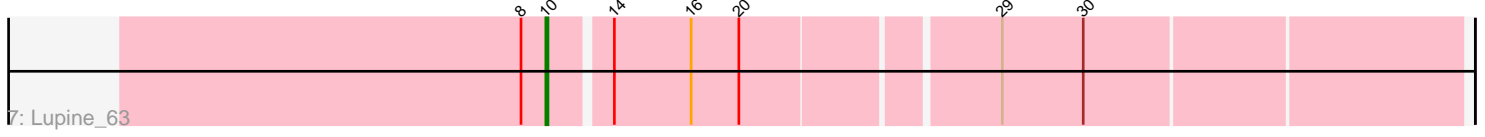
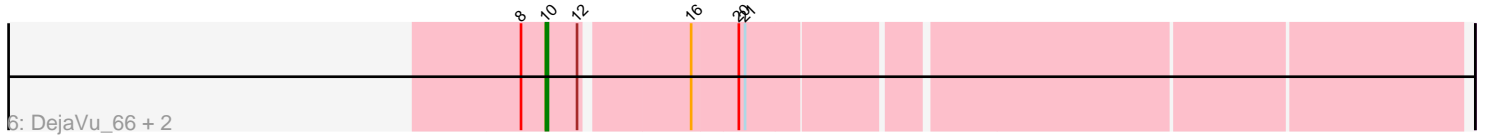
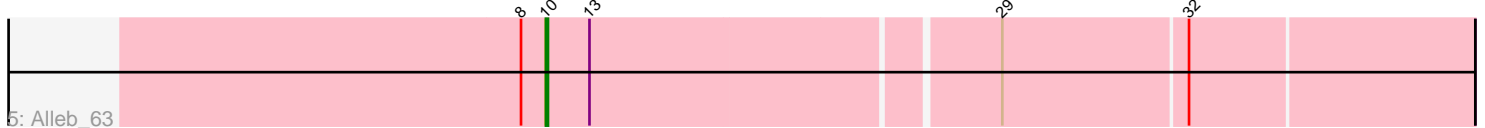
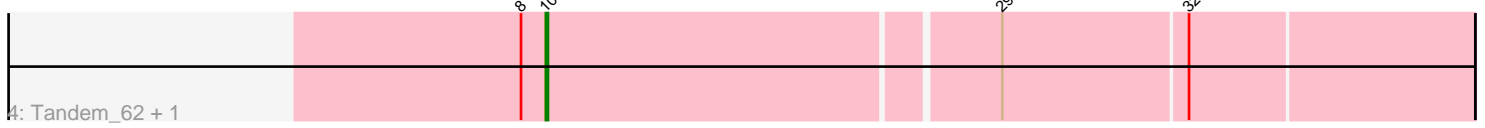
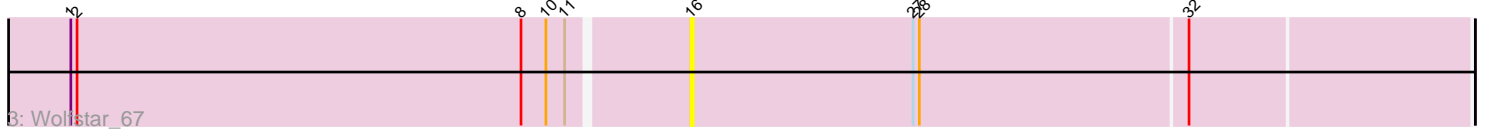
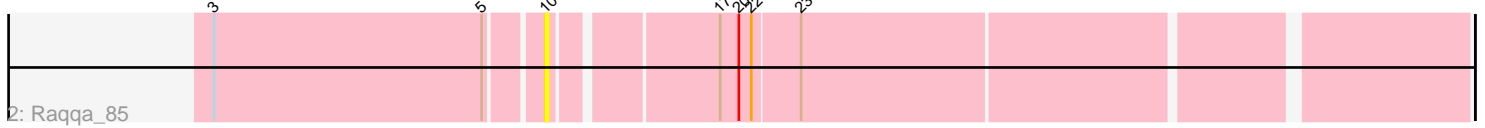
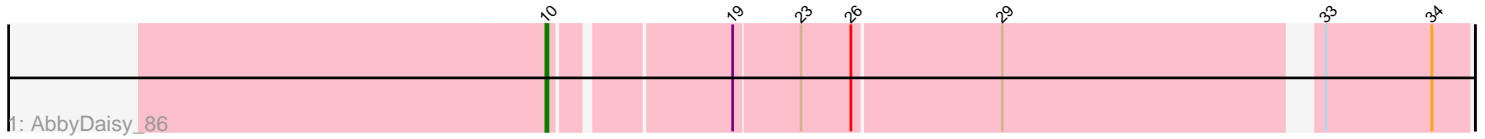


Pham 158236



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 158236 Report

This analysis was run 04/13/24 on database version 558.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 158236 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : AbbyDaisy_86
- Track 2 : Raqqa_85
- Track 3 : Wolfstar_67
- Track 4 : Tandem_62, Pioneer3_62
- Track 5 : Alleb_63
- Track 6 : DejaVu_66, PhillyPhilly_64, Pavlo_64
- Track 7 : Lupine_63
- Track 8 : Hubbs_65
- Track 9 : Roman_66
- Track 10 : Jacko_65
- Track 11 : Bauer_80
- Track 12 : Zucker_82

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

The start number called the most often in the published annotations is 10, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbyDaisy_86, Alleb_63, Bauer_80, DejaVu_66, Hubbs_65, Jacko_65, Lupine_63, Pavlo_64, PhillyPhilly_64, Pioneer3_62, Raqqa_85, Roman_66, Tandem_62,

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

- Wolfstar_67, Zucker_82,

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

-

Summary by start number:

Start 9:

- Found in 2 of 15 (13.3%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Zucker_82 (FN),

Start 10:

- Found in 15 of 15 (100.0%) of genes in pham
- Manual Annotations of this start: 12 of 13
- Called 86.7% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_86 (AY), Alleb_63 (ED1), Bauer_80 (FN), DejaVu_66 (ED1), Hubbs_65 (ED1), Jacko_65 (ED1), Lupine_63 (ED1), Pavlo_64 (ED1), PhillyPhilly_64 (ED1), Pioneer3_62 (ED1), Raqqa_85 (AY), Roman_66 (ED1), Tandem_62 (ED1),

Start 16:

- Found in 8 of 15 (53.3%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Wolfstar_67 (ED),

Summary by clusters:

There are 4 clusters represented in this pham: AY, ED, ED1, FN,

Info for manual annotations of cluster AY:

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

Info for manual annotations of cluster ED1:

- Start number 10 was manually annotated 10 times for cluster ED1.

Info for manual annotations of cluster FN:

- Start number 9 was manually annotated 1 time for cluster FN.
- Start number 10 was manually annotated 1 time for cluster FN.

Gene Information:

Gene: AbbyDaisy_86 Start: 49683, Stop: 50093, Start Num: 10

Candidate Starts for AbbyDaisy_86:

(Start: 10 @49683 has 12 MA's), (19, 49761), (23, 49791), (26, 49815), (29, 49884), (33, 50025), (34, 50076),

Gene: Alleb_63 Start: 38335, Stop: 37907, Start Num: 10

Candidate Starts for Alleb_63:

(8, 38347), (Start: 10 @38335 has 12 MA's), (13, 38314), (29, 38128), (32, 38041),

Gene: Bauer_80 Start: 44429, Stop: 44842, Start Num: 10

Candidate Starts for Bauer_80:

(Start: 9 @44420 has 1 MA's), (Start: 10 @44429 has 12 MA's), (24, 44540), (25, 44546), (29, 44633),

Gene: DejaVu_66 Start: 38300, Stop: 37887, Start Num: 10

Candidate Starts for DejaVu_66:

(8, 38312), (Start: 10 @38300 has 12 MA's), (12, 38285), (16, 38237), (20, 38216), (21, 38213),

Gene: Hubbs_65 Start: 38508, Stop: 38095, Start Num: 10

Candidate Starts for Hubbs_65:

(8, 38520), (Start: 10 @38508 has 12 MA's), (16, 38445), (20, 38424), (21, 38421), (30, 38271), (31, 38253),

Gene: Jacko_65 Start: 37248, Stop: 36841, Start Num: 10

Candidate Starts for Jacko_65:

(Start: 10 @37248 has 12 MA's), (16, 37191), (18, 37176), (29, 37062),

Gene: Lupine_63 Start: 37714, Stop: 37301, Start Num: 10

Candidate Starts for Lupine_63:

(8, 37726), (Start: 10 @37714 has 12 MA's), (14, 37687), (16, 37651), (20, 37630), (29, 37516), (30, 37477),

Gene: Pavlo_64 Start: 38359, Stop: 37946, Start Num: 10

Candidate Starts for Pavlo_64:

(8, 38371), (Start: 10 @38359 has 12 MA's), (12, 38344), (16, 38296), (20, 38275), (21, 38272),

Gene: PhillyPhilly_64 Start: 37893, Stop: 37480, Start Num: 10

Candidate Starts for PhillyPhilly_64:

(8, 37905), (Start: 10 @37893 has 12 MA's), (12, 37878), (16, 37830), (20, 37809), (21, 37806),

Gene: Pioneer3_62 Start: 38332, Stop: 37904, Start Num: 10

Candidate Starts for Pioneer3_62:

(8, 38344), (Start: 10 @38332 has 12 MA's), (29, 38125), (32, 38038),

Gene: Raqqa_85 Start: 47700, Stop: 48110, Start Num: 10

Candidate Starts for Raqqa_85:

(3, 47547), (5, 47676), (Start: 10 @47700 has 12 MA's), (17, 47772), (20, 47781), (22, 47787), (23, 47808),

Gene: Roman_66 Start: 38562, Stop: 38149, Start Num: 10

Candidate Starts for Roman_66:

(4, 38655), (6, 38589), (7, 38574), (Start: 10 @38562 has 12 MA's), (12, 38547), (16, 38499), (20, 38478), (21, 38475), (32, 38277),

Gene: Tandem_62 Start: 38430, Stop: 38002, Start Num: 10

Candidate Starts for Tandem_62:

(8, 38442), (Start: 10 @38430 has 12 MA's), (29, 38223), (32, 38136),

Gene: Wolfstar_67 Start: 39539, Stop: 39174, Start Num: 16

Candidate Starts for Wolfstar_67:

(1, 39830), (2, 39827), (8, 39614), (Start: 10 @39602 has 12 MA's), (11, 39593), (16, 39539), (27, 39434), (28, 39431), (32, 39305),

Gene: Zucker_82 Start: 48335, Stop: 48733, Start Num: 9

Candidate Starts for Zucker_82:

(Start: 9 @48335 has 1 MA's), (Start: 10 @48344 has 12 MA's), (15, 48374), (26, 48473), (29, 48524),