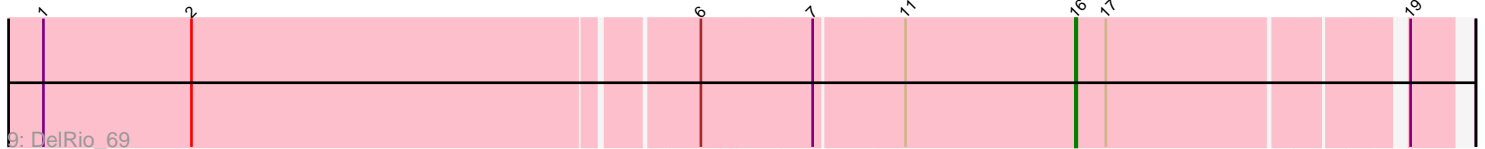
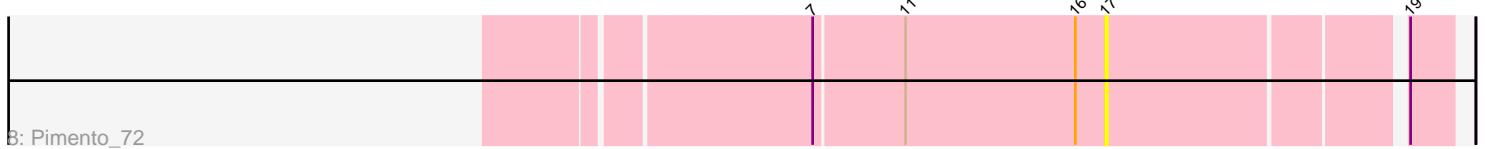
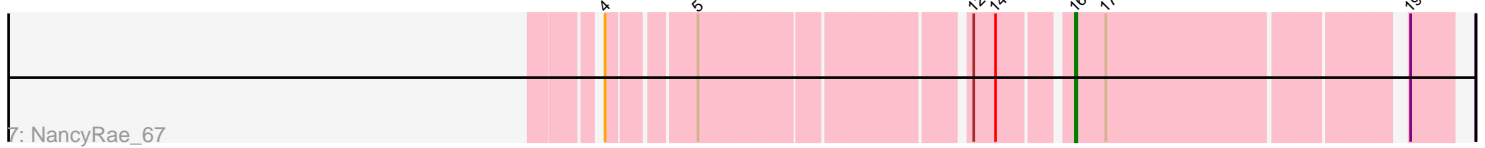
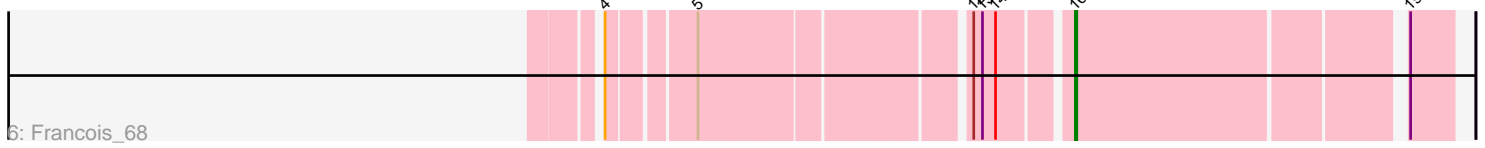
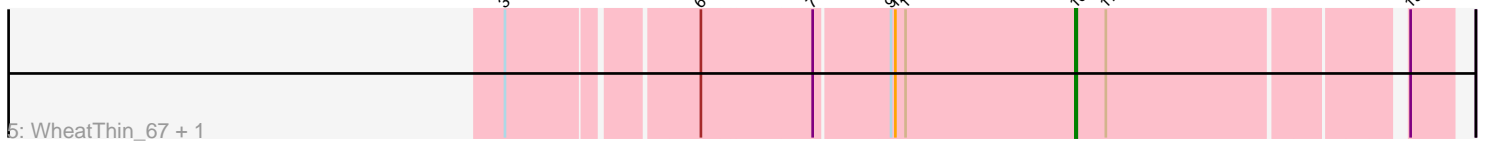
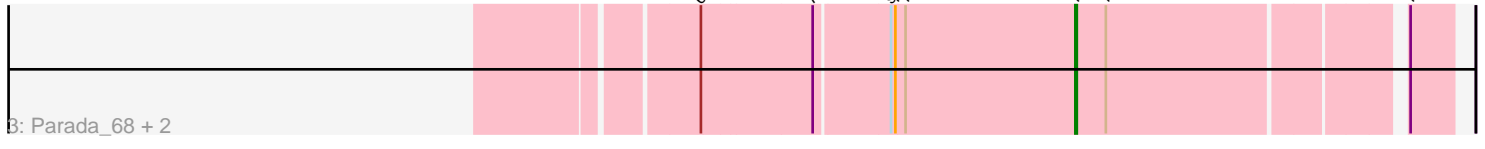
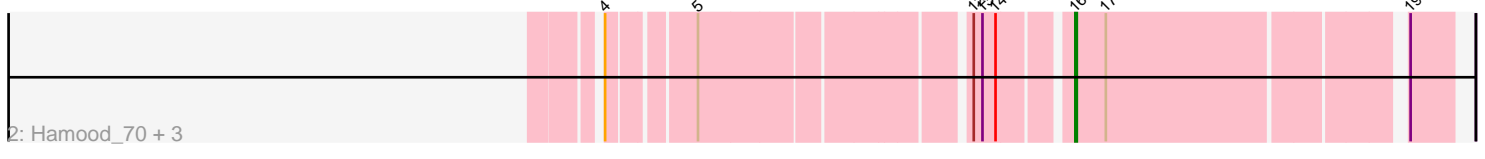
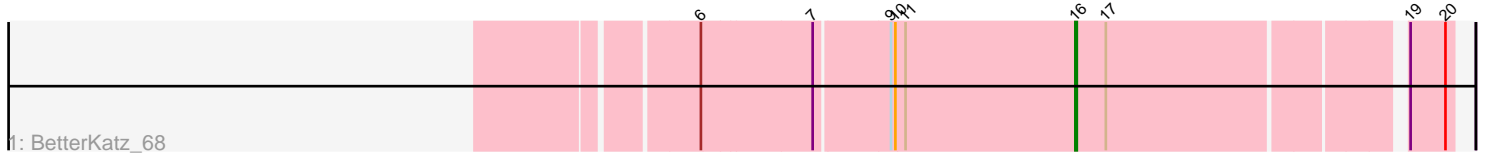


Pham 171840



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 171840 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171840 has 16 members, 3 are drafts.

Phages represented in each track:

- Track 1 : BetterKatz_68
- Track 2 : Hamood_70, Chop_70, GrandSlam_70, Ayotoya_69
- Track 3 : Parada_68, Mulch_68, Brylie_68
- Track 4 : Bock_70
- Track 5 : WheatThin_67, Nadeem_68
- Track 6 : Francois_68
- Track 7 : NancyRae_67
- Track 8 : Pimento_72
- Track 9 : DelRio_69
- Track 10 : TPA4_70

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

The start number called the most often in the published annotations is 16, it was called in 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ayotoya_69, BetterKatz_68, Bock_70, Brylie_68, Chop_70, DelRio_69, Francois_68, GrandSlam_70, Hamood_70, Mulch_68, Nadeem_68, NancyRae_67, Parada_68, WheatThin_67,

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

- Pimento_72,

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

- TPA4_70,

Summary by start number:

Start 15:

- Found in 1 of 16 (6.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TPA4_70 (singleton),

Start 16:

- Found in 15 of 16 (93.8%) of genes in pham
- Manual Annotations of this start: 13 of 13
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Ayotoya_69 (DI), BetterKatz_68 (DI), Bock_70 (DI), Brylie_68 (DI), Chop_70 (DI), DelRio_69 (DI), Francois_68 (DI), GrandSlam_70 (DI), Hamood_70 (DI), Mulch_68 (DI), Nadeem_68 (DI), NancyRae_67 (DI), Parada_68 (DI), WheatThin_67 (DI),

Start 17:

- Found in 14 of 16 (87.5%) of genes in pham
- No Manual Annotations of this start.
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Pimento_72 (DI),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, DI,

Info for manual annotations of cluster DI:

- Start number 16 was manually annotated 13 times for cluster DI.

Gene Information:

Gene: Ayotoya_69 Start: 44611, Stop: 44847, Start Num: 16

Candidate Starts for Ayotoya_69:

(4, 44338), (5, 44389), (12, 44554), (13, 44560), (14, 44569), (Start: 16 @44611 has 13 MA's), (17, 44632), (19, 44818),

Gene: BetterKatz_68 Start: 43711, Stop: 43947, Start Num: 16

Candidate Starts for BetterKatz_68:

(6, 43465), (7, 43537), (9, 43585), (10, 43588), (11, 43594), (Start: 16 @43711 has 13 MA's), (17, 43732), (19, 43918), (20, 43942),

Gene: Bock_70 Start: 43955, Stop: 44191, Start Num: 16

Candidate Starts for Bock_70:

(Start: 16 @43955 has 13 MA's), (17, 43976), (19, 44162),

Gene: Brylie_68 Start: 43534, Stop: 43770, Start Num: 16

Candidate Starts for Brylie_68:

(6, 43288), (7, 43360), (9, 43408), (10, 43411), (11, 43417), (Start: 16 @43534 has 13 MA's), (17, 43555), (19, 43741),

Gene: Chop_70 Start: 44799, Stop: 45035, Start Num: 16

Candidate Starts for Chop_70:

(4, 44526), (5, 44577), (12, 44742), (13, 44748), (14, 44757), (Start: 16 @44799 has 13 MA's), (17, 44820), (19, 45006),

Gene: DelRio_69 Start: 44721, Stop: 44957, Start Num: 16

Candidate Starts for DelRio_69:

(1, 44037), (2, 44139), (6, 44475), (7, 44547), (11, 44604), (Start: 16 @44721 has 13 MA's), (17, 44742), (19, 44928),

Gene: Francois_68 Start: 43819, Stop: 44055, Start Num: 16

Candidate Starts for Francois_68:

(4, 43546), (5, 43597), (12, 43762), (13, 43768), (14, 43777), (Start: 16 @43819 has 13 MA's), (19, 44026),

Gene: GrandSlam_70 Start: 44799, Stop: 45035, Start Num: 16

Candidate Starts for GrandSlam_70:

(4, 44526), (5, 44577), (12, 44742), (13, 44748), (14, 44757), (Start: 16 @44799 has 13 MA's), (17, 44820), (19, 45006),

Gene: Hamood_70 Start: 44799, Stop: 45035, Start Num: 16

Candidate Starts for Hamood_70:

(4, 44526), (5, 44577), (12, 44742), (13, 44748), (14, 44757), (Start: 16 @44799 has 13 MA's), (17, 44820), (19, 45006),

Gene: Mulch_68 Start: 43534, Stop: 43770, Start Num: 16

Candidate Starts for Mulch_68:

(6, 43288), (7, 43360), (9, 43408), (10, 43411), (11, 43417), (Start: 16 @43534 has 13 MA's), (17, 43555), (19, 43741),

Gene: Nadeem_68 Start: 43522, Stop: 43758, Start Num: 16

Candidate Starts for Nadeem_68:

(3, 43156), (6, 43276), (7, 43348), (9, 43396), (10, 43399), (11, 43405), (Start: 16 @43522 has 13 MA's), (17, 43543), (19, 43729),

Gene: NancyRae_67 Start: 43571, Stop: 43807, Start Num: 16

Candidate Starts for NancyRae_67:

(4, 43298), (5, 43349), (12, 43514), (14, 43529), (Start: 16 @43571 has 13 MA's), (17, 43592), (19, 43778),

Gene: Parada_68 Start: 43534, Stop: 43770, Start Num: 16

Candidate Starts for Parada_68:

(6, 43288), (7, 43360), (9, 43408), (10, 43411), (11, 43417), (Start: 16 @43534 has 13 MA's), (17, 43555), (19, 43741),

Gene: Pimento_72 Start: 43674, Stop: 43889, Start Num: 17

Candidate Starts for Pimento_72:

(7, 43479), (11, 43536), (Start: 16 @43653 has 13 MA's), (17, 43674), (19, 43860),

Gene: TPA4_70 Start: 45701, Stop: 45991, Start Num: 15

Candidate Starts for TPA4_70:

(8, 45569), (15, 45701), (18, 45911), (19, 45947),

Gene: WheatThin_67 Start: 43522, Stop: 43758, Start Num: 16

Candidate Starts for WheatThin_67:

(3, 43156), (6, 43276), (7, 43348), (9, 43396), (10, 43399), (11, 43405), (Start: 16 @43522 has 13 MA's), (17, 43543), (19, 43729),