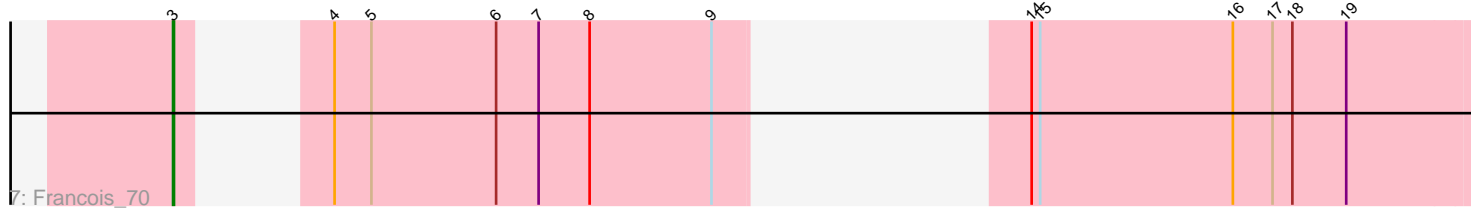
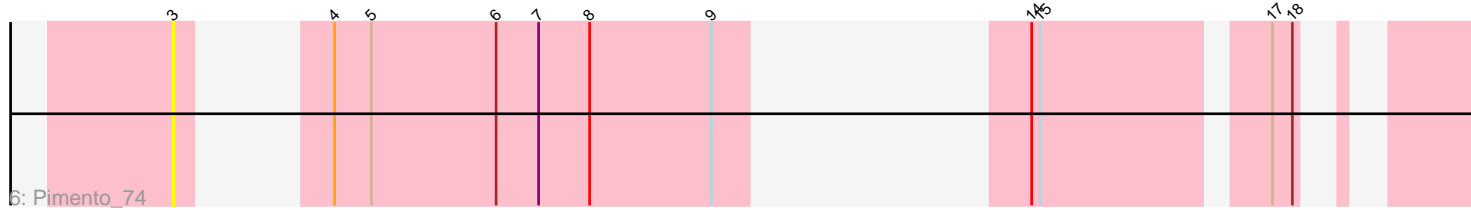
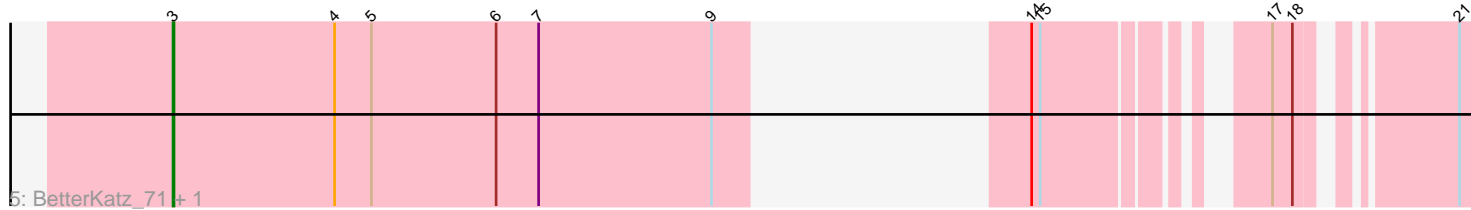
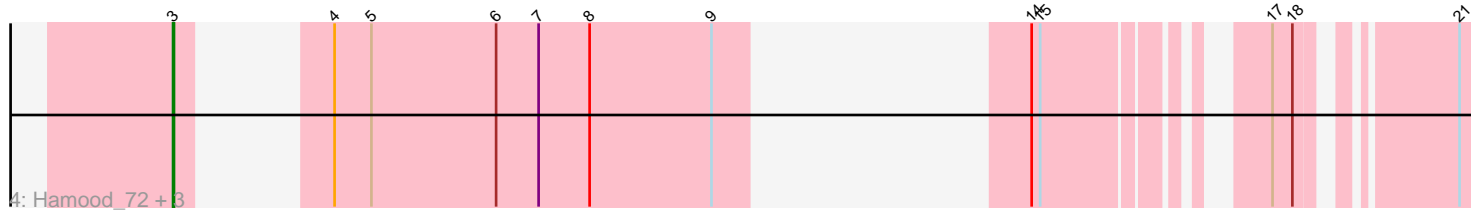
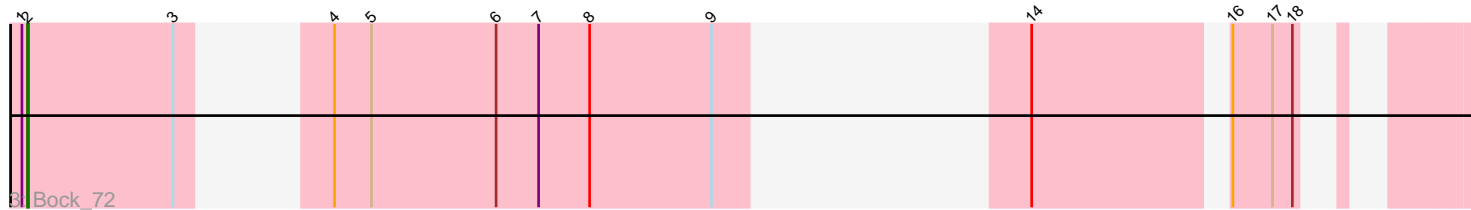
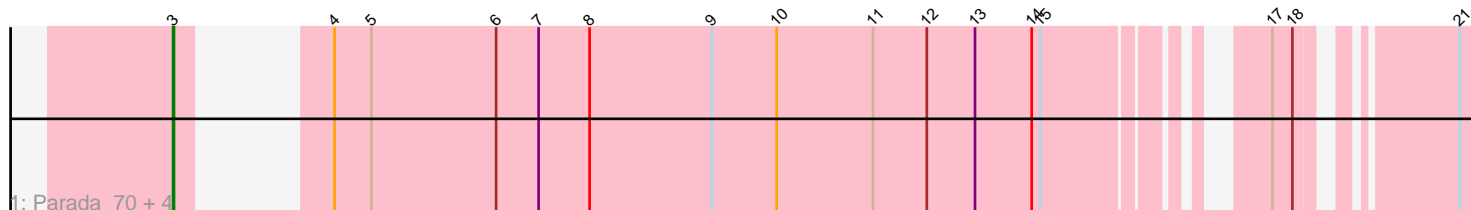


Pham 4633



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 4633 Report

This analysis was run 04/28/24 on database version 559.

Pham number 4633 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Parada_70, Mulch_70, Brylie_70, Nadeem_70, WheatThin_70
- Track 2 : NancyRae_69
- Track 3 : Bock_72
- Track 4 : Hamood_72, GrandSlam_72, DelRio_71, Chop_72
- Track 5 : BetterKatz_71, Ayotoya_71
- Track 6 : Pimento_74
- Track 7 : Francois_70

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

The start number called the most often in the published annotations is 3, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ayotoya_71, BetterKatz_71, Brylie_70, Chop_72, DelRio_71, Francois_70, GrandSlam_72, Hamood_72, Mulch_70, Nadeem_70, NancyRae_69, Parada_70, Pimento_74, WheatThin_70,

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

- Bock_72,

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

•

Summary by start number:

Start 2:

- 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: Bock_72 (DI),

Start 3:

- Found in 15 of 15 (100.0%) of genes in pham

- Manual Annotations of this start: 12 of 13
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Ayotoya_71 (DI), BetterKatz_71 (DI), Brylie_70 (DI), Chop_72 (DI), DelRio_71 (DI), Francois_70 (DI), GrandSlam_72 (DI), Hamood_72 (DI), Mulch_70 (DI), Nadeem_70 (DI), NancyRae_69 (DI), Parada_70 (DI), Pimento_74 (DI), WheatThin_70 (DI),

Summary by clusters:

There is one cluster represented in this pham: DI

Info for manual annotations of cluster DI:

- Start number 2 was manually annotated 1 time for cluster DI.
- Start number 3 was manually annotated 12 times for cluster DI.

Gene Information:

Gene: Ayotoya_71 Start: 47935, Stop: 48942, Start Num: 3

Candidate Starts for Ayotoya_71:

(Start: 3 @47935 has 12 MA's), (4, 48106), (5, 48145), (6, 48277), (7, 48322), (9, 48505), (14, 48589), (15, 48598), (17, 48775), (18, 48796), (21, 48925),

Gene: BetterKatz_71 Start: 47562, Stop: 48569, Start Num: 3

Candidate Starts for BetterKatz_71:

(Start: 3 @47562 has 12 MA's), (4, 47733), (5, 47772), (6, 47904), (7, 47949), (9, 48132), (14, 48216), (15, 48225), (17, 48402), (18, 48423), (21, 48552),

Gene: Bock_72 Start: 47125, Stop: 48171, Start Num: 2

Candidate Starts for Bock_72:

(1, 47119), (Start: 2 @47125 has 1 MA's), (Start: 3 @47278 has 12 MA's), (4, 47335), (5, 47374), (6, 47506), (7, 47551), (8, 47605), (9, 47734), (14, 47818), (16, 48001), (17, 48043), (18, 48064),

Gene: Brylie_70 Start: 46849, Stop: 47958, Start Num: 3

Candidate Starts for Brylie_70:

(Start: 3 @46849 has 12 MA's), (4, 46906), (5, 46945), (6, 47077), (7, 47122), (8, 47176), (9, 47305), (10, 47374), (11, 47476), (12, 47533), (13, 47584), (14, 47644), (15, 47653), (17, 47791), (18, 47812), (21, 47941),

Gene: Chop_72 Start: 48114, Stop: 49007, Start Num: 3

Candidate Starts for Chop_72:

(Start: 3 @48114 has 12 MA's), (4, 48171), (5, 48210), (6, 48342), (7, 48387), (8, 48441), (9, 48570), (14, 48654), (15, 48663), (17, 48840), (18, 48861), (21, 48990),

Gene: DelRio_71 Start: 48045, Stop: 49049, Start Num: 3

Candidate Starts for DelRio_71:

(Start: 3 @48045 has 12 MA's), (4, 48216), (5, 48255), (6, 48387), (7, 48432), (8, 48486), (9, 48615), (14, 48699), (15, 48708), (17, 48882), (18, 48903), (21, 49032),

Gene: Francois_70 Start: 47143, Stop: 48147, Start Num: 3

Candidate Starts for Francois_70:

(Start: 3 @47143 has 12 MA's), (4, 47200), (5, 47239), (6, 47371), (7, 47416), (8, 47470), (9, 47599), (14, 47680), (15, 47689), (16, 47893), (17, 47935), (18, 47956), (19, 48013),

Gene: GrandSlam_72 Start: 48114, Stop: 49007, Start Num: 3

Candidate Starts for GrandSlam_72:

(Start: 3 @48114 has 12 MA's), (4, 48171), (5, 48210), (6, 48342), (7, 48387), (8, 48441), (9, 48570), (14, 48654), (15, 48663), (17, 48840), (18, 48861), (21, 48990),

Gene: Hamood_72 Start: 48114, Stop: 49007, Start Num: 3

Candidate Starts for Hamood_72:

(Start: 3 @48114 has 12 MA's), (4, 48171), (5, 48210), (6, 48342), (7, 48387), (8, 48441), (9, 48570), (14, 48654), (15, 48663), (17, 48840), (18, 48861), (21, 48990),

Gene: Mulch_70 Start: 46849, Stop: 47997, Start Num: 3

Candidate Starts for Mulch_70:

(Start: 3 @46849 has 12 MA's), (4, 46906), (5, 46945), (6, 47077), (7, 47122), (8, 47176), (9, 47305), (10, 47374), (11, 47476), (12, 47533), (13, 47584), (14, 47644), (15, 47653), (17, 47830), (18, 47851), (21, 47980),

Gene: Nadeem_70 Start: 46837, Stop: 47985, Start Num: 3

Candidate Starts for Nadeem_70:

(Start: 3 @46837 has 12 MA's), (4, 46894), (5, 46933), (6, 47065), (7, 47110), (8, 47164), (9, 47293), (10, 47362), (11, 47464), (12, 47521), (13, 47572), (14, 47632), (15, 47641), (17, 47818), (18, 47839), (21, 47968),

Gene: NancyRae_69 Start: 46886, Stop: 47839, Start Num: 3

Candidate Starts for NancyRae_69:

(Start: 3 @46886 has 12 MA's), (4, 46943), (5, 46982), (6, 47114), (7, 47159), (9, 47342), (14, 47426), (15, 47435), (16, 47609), (17, 47651), (18, 47672), (20, 47762), (21, 47822),

Gene: Parada_70 Start: 46849, Stop: 47997, Start Num: 3

Candidate Starts for Parada_70:

(Start: 3 @46849 has 12 MA's), (4, 46906), (5, 46945), (6, 47077), (7, 47122), (8, 47176), (9, 47305), (10, 47374), (11, 47476), (12, 47533), (13, 47584), (14, 47644), (15, 47653), (17, 47830), (18, 47851), (21, 47980),

Gene: Pimento_74 Start: 46977, Stop: 47873, Start Num: 3

Candidate Starts for Pimento_74:

(Start: 3 @46977 has 12 MA's), (4, 47034), (5, 47073), (6, 47205), (7, 47250), (8, 47304), (9, 47433), (14, 47517), (15, 47526), (17, 47742), (18, 47763),

Gene: WheatThin_70 Start: 46837, Stop: 47985, Start Num: 3

Candidate Starts for WheatThin_70:

(Start: 3 @46837 has 12 MA's), (4, 46894), (5, 46933), (6, 47065), (7, 47110), (8, 47164), (9, 47293), (10, 47362), (11, 47464), (12, 47521), (13, 47572), (14, 47632), (15, 47641), (17, 47818), (18, 47839), (21, 47968),