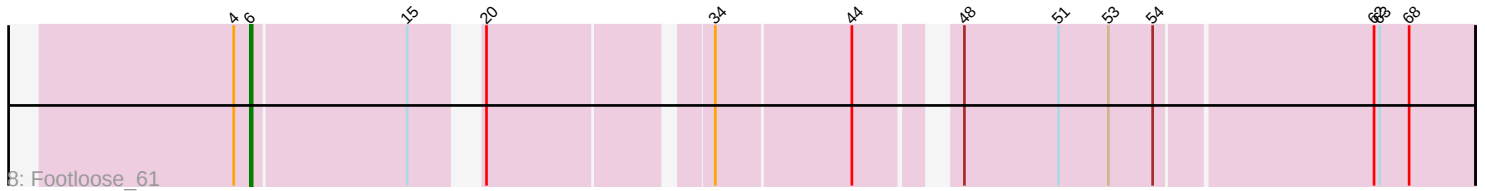
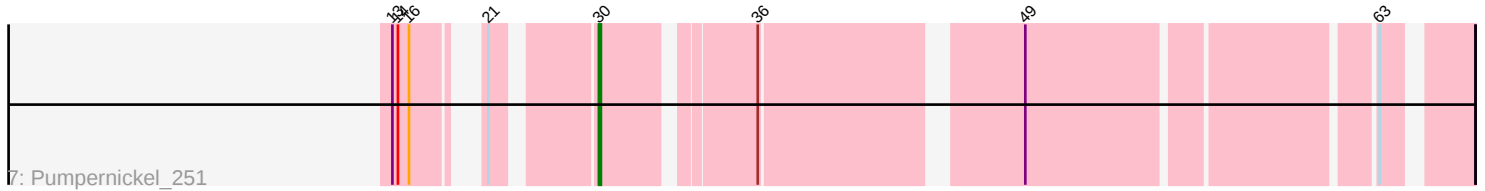
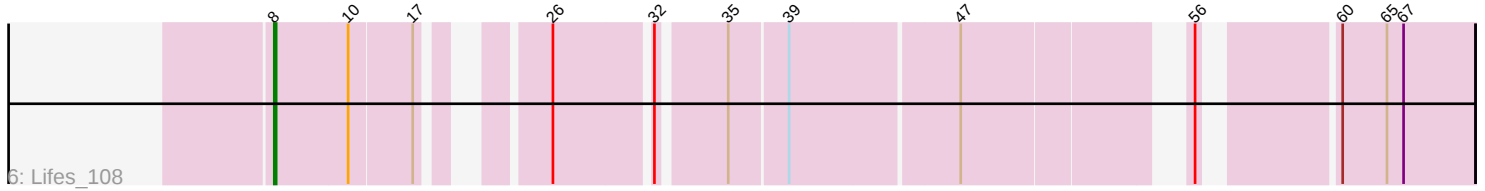
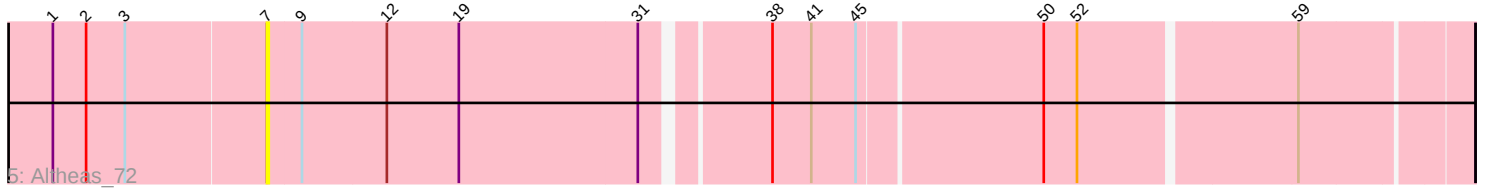
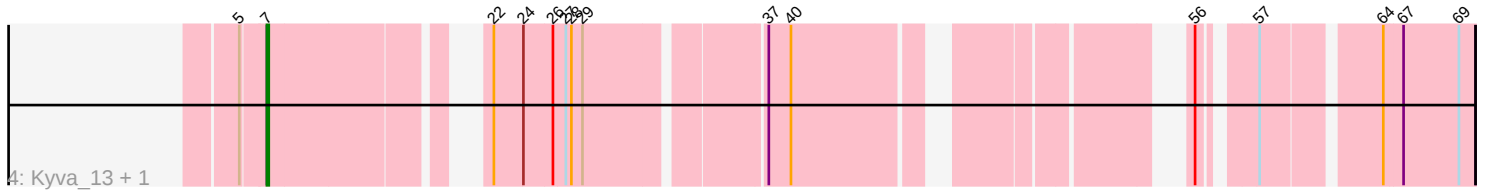
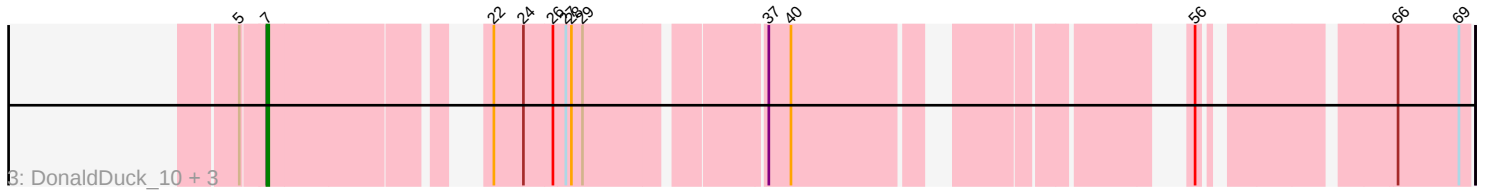
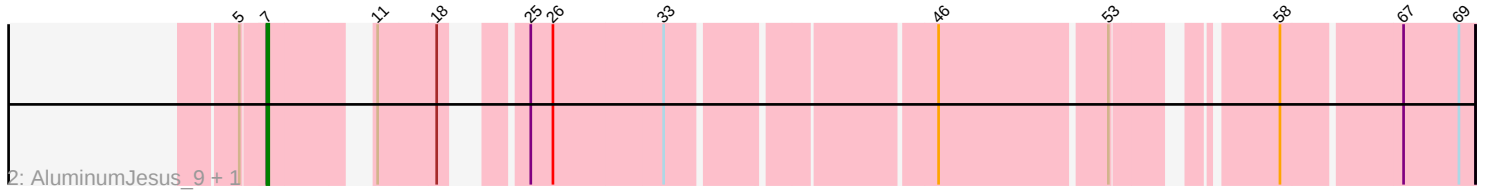
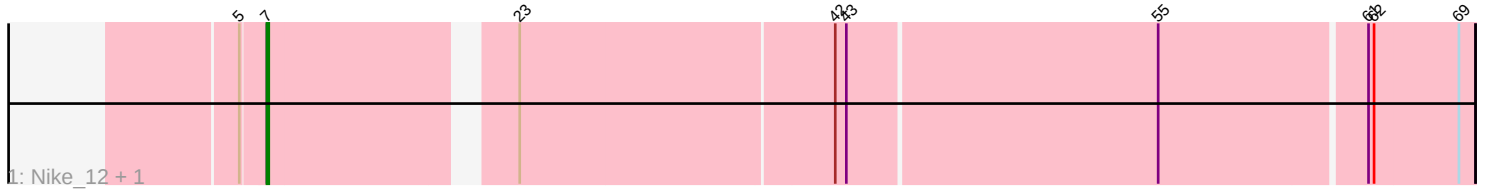


Pham 309556



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 309556 Report

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

Pham number 309556 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Nike_12, Squash_13
- Track 2 : AluminumJesus_9, Blab_9
- Track 3 : DonaldDuck_10, Casend_12, Wheelie_10, Wayne3_12
- Track 4 : Kyva_13, Grassboy_12
- Track 5 : Altheas_72
- Track 6 : Lifes_108
- Track 7 : Pumpernickel_251
- Track 8 : Footloose_61

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

The start number called the most often in the published annotations is 7, it was called in 10 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Altheas_72, AluminumJesus_9, Blab_9, Casend_12, DonaldDuck_10, Grassboy_12, Kyva_13, Nike_12, Squash_13, Wayne3_12, Wheelie_10,

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

-

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

- Footloose_61, Lifes_108, Pumpernickel_251,

Summary by start number:

Start 6:

- Found in 1 of 14 (7.1%) 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: Footloose_61 (singleton),

Start 7:

- Found in 11 of 14 (78.6%) of genes in pham

- Manual Annotations of this start: 10 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altheas_72 (EG), AluminumJesus_9 (EG), Blab_9 (EG), Casend_12 (EG), DonaldDuck_10 (EG), Grassboy_12 (EG), Kyva_13 (EG), Nike_12 (EG), Squash_13 (EG), Wayne3_12 (EG), Wheelie_10 (EG),

Start 8:

- Found in 1 of 14 (7.1%) 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: Lifes_108 (GB),

Start 30:

- Found in 1 of 14 (7.1%) 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: Pumpernickel_251 (GD4),

Summary by clusters:

There are 4 clusters represented in this pham: EG, GD4, GB, singleton,

Info for manual annotations of cluster EG:

- Start number 7 was manually annotated 10 times for cluster EG.

Info for manual annotations of cluster GB:

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

Info for manual annotations of cluster GD4:

- Start number 30 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: Altheas_72 Start: 46655, Stop: 46041, Start Num: 7

Candidate Starts for Altheas_72:

(1, 46769), (2, 46751), (3, 46730), (Start: 7 @46655 has 10 MA's), (9, 46637), (12, 46592), (19, 46553), (31, 46457), (38, 46397), (41, 46376), (45, 46352), (50, 46256), (52, 46238), (59, 46127),

Gene: AluminumJesus_9 Start: 3767, Stop: 3216, Start Num: 7

Candidate Starts for AluminumJesus_9:

(5, 3776), (Start: 7 @3767 has 10 MA's), (11, 3725), (18, 3695), (25, 3668), (26, 3656), (33, 3599), (46, 3470), (53, 3383), (58, 3314), (67, 3254), (69, 3224),

Gene: Blab_9 Start: 3549, Stop: 2998, Start Num: 7

Candidate Starts for Blab_9:

(5, 3558), (Start: 7 @3549 has 10 MA's), (11, 3507), (18, 3477), (25, 3450), (26, 3438), (33, 3381), (46, 3252), (53, 3165), (58, 3096), (67, 3036), (69, 3006),

Gene: Casend_12 Start: 4521, Stop: 3994, Start Num: 7

Candidate Starts for Casend_12:

(5, 4530), (Start: 7 @4521 has 10 MA's), (22, 4428), (24, 4413), (26, 4398), (27, 4392), (28, 4389), (29, 4383), (37, 4296), (40, 4284), (56, 4116), (66, 4032), (69, 3999),

Gene: DonaldDuck_10 Start: 3867, Stop: 3340, Start Num: 7

Candidate Starts for DonaldDuck_10:

(5, 3876), (Start: 7 @3867 has 10 MA's), (22, 3774), (24, 3759), (26, 3744), (27, 3738), (28, 3735), (29, 3729), (37, 3642), (40, 3630), (56, 3462), (66, 3378), (69, 3345),

Gene: Footloose_61 Start: 34438, Stop: 35028, Start Num: 6

Candidate Starts for Footloose_61:

(4, 34429), (Start: 6 @34438 has 1 MA's), (15, 34519), (20, 34543), (34, 34651), (44, 34720), (48, 34762), (51, 34813), (53, 34840), (54, 34864), (62, 34975), (63, 34978), (68, 34993),

Gene: Grassboy_12 Start: 4555, Stop: 4025, Start Num: 7

Candidate Starts for Grassboy_12:

(5, 4564), (Start: 7 @4555 has 10 MA's), (22, 4462), (24, 4447), (26, 4432), (27, 4426), (28, 4423), (29, 4417), (37, 4330), (40, 4318), (56, 4150), (57, 4129), (64, 4072), (67, 4063), (69, 4033),

Gene: Kyva_13 Start: 4590, Stop: 4060, Start Num: 7

Candidate Starts for Kyva_13:

(5, 4599), (Start: 7 @4590 has 10 MA's), (22, 4497), (24, 4482), (26, 4467), (27, 4461), (28, 4458), (29, 4452), (37, 4365), (40, 4353), (56, 4185), (57, 4164), (64, 4107), (67, 4098), (69, 4068),

Gene: Lifes_108 Start: 54198, Stop: 53650, Start Num: 8

Candidate Starts for Lifes_108:

(Start: 8 @54198 has 1 MA's), (10, 54159), (17, 54126), (26, 54081), (32, 54033), (35, 54000), (39, 53970), (47, 53883), (56, 53781), (60, 53721), (65, 53697), (67, 53688),

Gene: Nike_12 Start: 4531, Stop: 3914, Start Num: 7

Candidate Starts for Nike_12:

(5, 4540), (Start: 7 @4531 has 10 MA's), (23, 4414), (42, 4249), (43, 4243), (55, 4078), (61, 3970), (62, 3967), (69, 3922),

Gene: Pumpernickel_251 Start: 146954, Stop: 147358, Start Num: 30

Candidate Starts for Pumpernickel_251:

(13, 146879), (14, 146882), (16, 146888), (21, 146909), (Start: 30 @146954 has 1 MA's), (36, 147023), (49, 147149), (63, 147320),

Gene: Squash_13 Start: 4586, Stop: 3969, Start Num: 7

Candidate Starts for Squash_13:

(5, 4595), (Start: 7 @4586 has 10 MA's), (23, 4469), (42, 4304), (43, 4298), (55, 4133), (61, 4025), (62, 4022), (69, 3977),

Gene: Wayne3_12 Start: 4516, Stop: 3989, Start Num: 7

Candidate Starts for Wayne3_12:

(5, 4525), (Start: 7 @4516 has 10 MA's), (22, 4423), (24, 4408), (26, 4393), (27, 4387), (28, 4384), (29, 4378), (37, 4291), (40, 4279), (56, 4111), (66, 4027), (69, 3994),

Gene: Wheelie_10 Start: 3867, Stop: 3340, Start Num: 7

Candidate Starts for Wheelie_10:

(5, 3876), (Start: 7 @3867 has 10 MA's), (22, 3774), (24, 3759), (26, 3744), (27, 3738), (28, 3735), (29, 3729), (37, 3642), (40, 3630), (56, 3462), (66, 3378), (69, 3345),