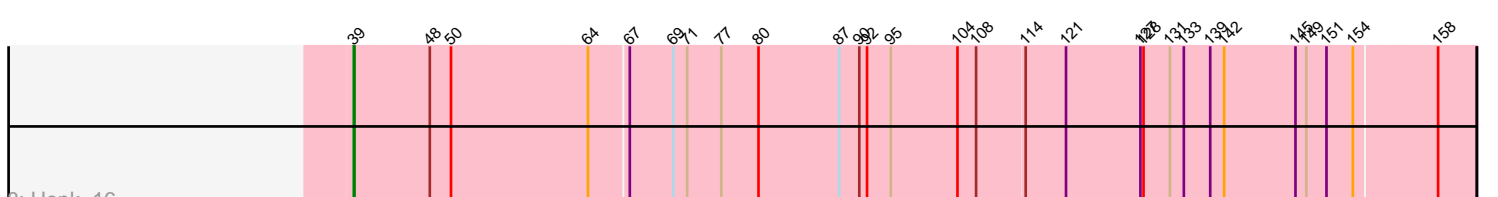
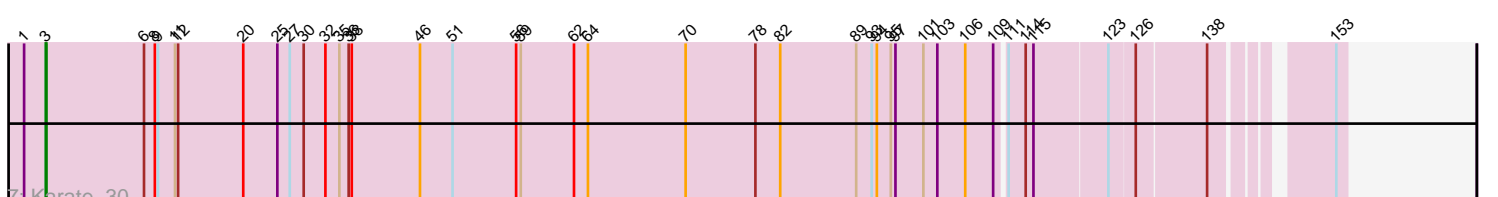
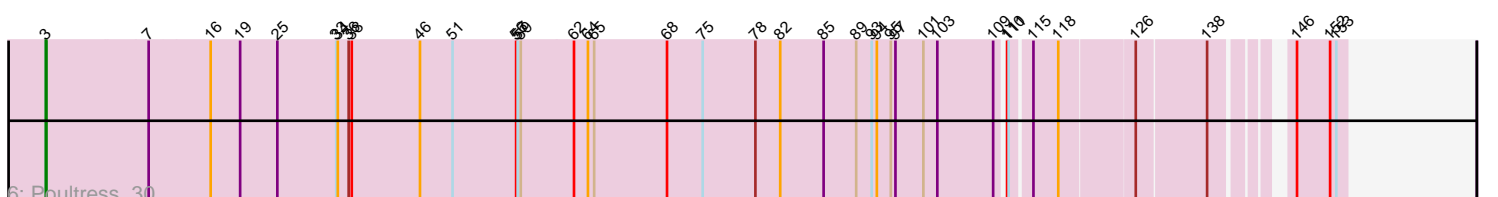
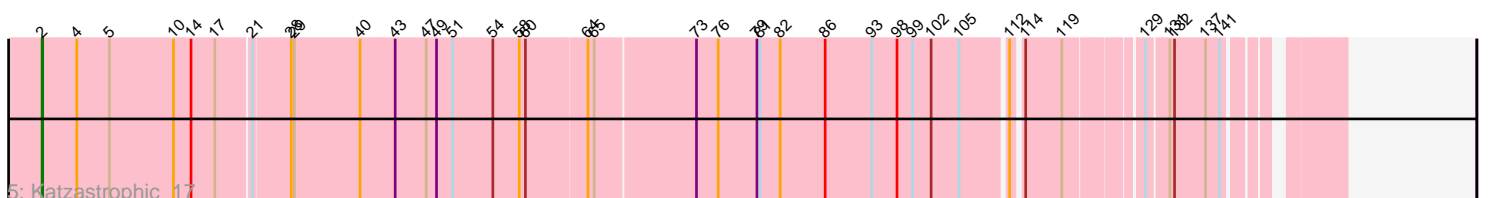
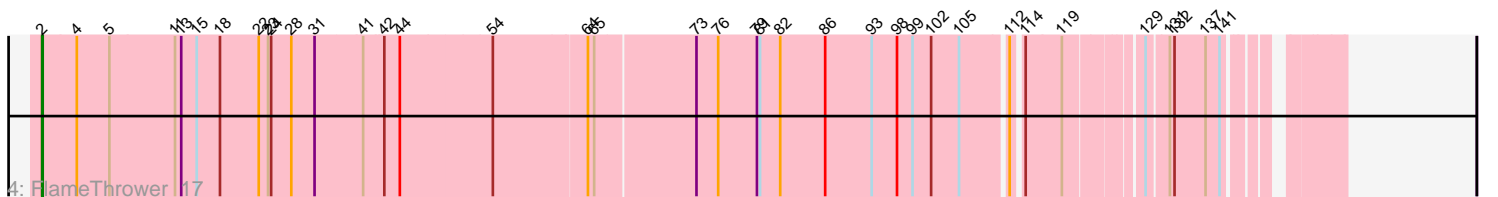
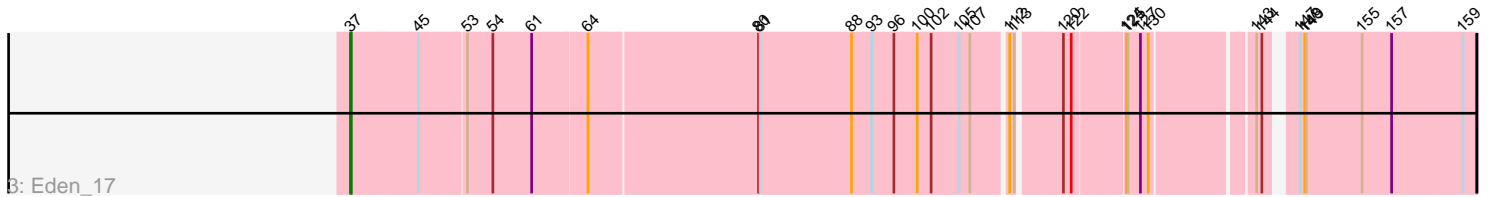
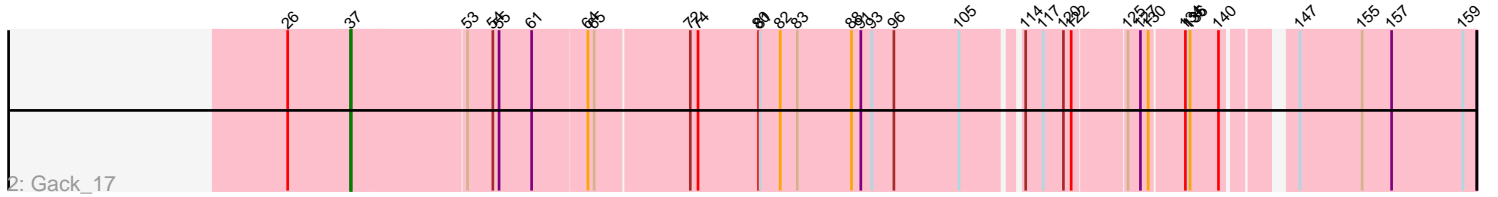
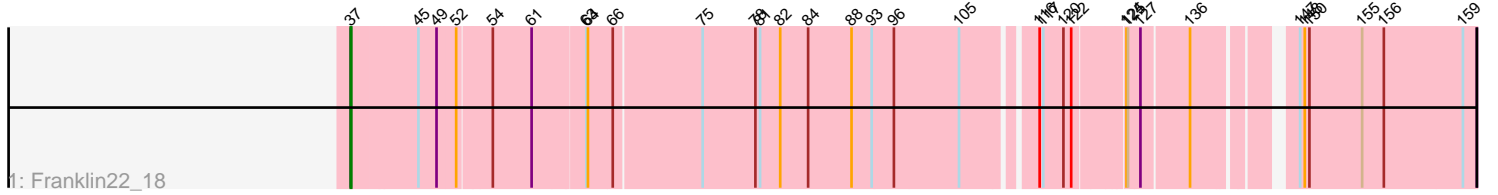


Pham 305532



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 305532 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305532 has 8 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Franklin22_18
- Track 2 : Gack_17
- Track 3 : Eden_17
- Track 4 : FlameThrower_17
- Track 5 : Katzastrophic_17
- Track 6 : Poultruss_30
- Track 7 : Karate_30
- Track 8 : Honk_16

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

The start number called the most often in the published annotations is 37, it was called in 3 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Eden_17, Franklin22_18, Gack_17,

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

-

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

- FlameThrower_17, Honk_16, Karate_30, Katzastrophic_17, Poultruss_30,

Summary by start number:

Start 2:

- Found in 2 of 8 (25.0%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FlameThrower_17 (EB), Katzastrophic_17 (EB),

Start 3:

- Found in 2 of 8 (25.0%) of genes in pham

- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Karate_30 (EF), Poultruss_30 (EF),

Start 37:

- Found in 3 of 8 (37.5%) of genes in pham
- Manual Annotations of this start: 3 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Eden_17 (EB), Franklin22_18 (EB), Gack_17 (EB),

Start 39:

- Found in 1 of 8 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Honk_16 (EH),

Summary by clusters:

There are 3 clusters represented in this pham: EF, EH, EB,

Info for manual annotations of cluster EB:

- Start number 2 was manually annotated 2 times for cluster EB.
- Start number 37 was manually annotated 3 times for cluster EB.

Info for manual annotations of cluster EF:

- Start number 3 was manually annotated 2 times for cluster EF.

Info for manual annotations of cluster EH:

- Start number 39 was manually annotated 1 time for cluster EH.

Gene Information:

Gene: Eden_17 Start: 12590, Stop: 14578, Start Num: 37

Candidate Starts for Eden_17:

(Start: 37 @12590 has 3 MA's), (45, 12713), (53, 12791), (54, 12833), (61, 12908), (64, 13007), (80, 13325), (81, 13328), (88, 13505), (93, 13544), (96, 13586), (100, 13628), (102, 13655), (105, 13709), (107, 13730), (112, 13790), (113, 13799), (120, 13877), (122, 13892), (124, 13976), (125, 13979), (127, 14000), (130, 14015), (143, 14192), (144, 14198), (147, 14240), (148, 14249), (149, 14252), (155, 14360), (157, 14417), (159, 14552),

Gene: FlameThrower_17 Start: 13345, Stop: 15654, Start Num: 2

Candidate Starts for FlameThrower_17:

(Start: 2 @13345 has 2 MA's), (4, 13411), (5, 13474), (11, 13600), (13, 13612), (15, 13642), (18, 13687), (22, 13762), (23, 13780), (24, 13786), (28, 13825), (31, 13870), (41, 13957), (42, 13996), (44, 14026), (54, 14194), (64, 14368), (65, 14380), (73, 14566), (76, 14608), (79, 14683), (81, 14689), (82, 14728), (86, 14815), (93, 14905), (98, 14953), (99, 14980), (102, 15016), (105, 15070), (112, 15151), (114, 15166), (119, 15235), (129, 15358), (131, 15394), (132, 15403), (137, 15463), (141, 15490),

Gene: Franklin22_18 Start: 12769, Stop: 14757, Start Num: 37

Candidate Starts for Franklin22_18:

(Start: 37 @12769 has 3 MA's), (45, 12892), (49, 12922), (52, 12955), (54, 13015), (61, 13090), (63, 13186), (64, 13189), (66, 13234), (75, 13399), (78, 13501), (81, 13510), (82, 13549), (84, 13603), (88, 13687), (93, 13726), (96, 13768), (105, 13891), (116, 14014), (117, 14020), (120, 14059), (122, 14074), (124, 14158), (125, 14161), (127, 14182), (136, 14269), (147, 14419), (148, 14428), (150, 14437), (155, 14539), (156, 14581), (159, 14731),

Gene: Gack_17 Start: 12658, Stop: 14643, Start Num: 37

Candidate Starts for Gack_17:

(26, 12544), (Start: 37 @12658 has 3 MA's), (53, 12859), (54, 12901), (55, 12913), (61, 12976), (64, 13075), (65, 13087), (72, 13261), (74, 13276), (80, 13393), (81, 13396), (82, 13435), (83, 13468), (88, 13573), (91, 13591), (93, 13612), (96, 13654), (105, 13777), (114, 13873), (117, 13906), (120, 13945), (122, 13960), (125, 14047), (127, 14068), (130, 14083), (134, 14146), (135, 14152), (136, 14155), (140, 14209), (147, 14305), (155, 14425), (157, 14482), (159, 14617),

Gene: Honk_16 Start: 12148, Stop: 14262, Start Num: 39

Candidate Starts for Honk_16:

(Start: 39 @12148 has 1 MA's), (48, 12286), (50, 12322), (64, 12580), (67, 12649), (69, 12733), (71, 12760), (77, 12826), (80, 12898), (87, 13054), (90, 13093), (92, 13108), (95, 13153), (104, 13279), (108, 13315), (114, 13405), (121, 13483), (127, 13627), (128, 13633), (131, 13684), (133, 13711), (139, 13762), (142, 13789), (145, 13927), (149, 13948), (151, 13987), (154, 14038), (158, 14188),

Gene: Karate_30 Start: 18091, Stop: 20484, Start Num: 3

Candidate Starts for Karate_30:

(1, 18049), (Start: 3 @18091 has 2 MA's), (6, 18280), (8, 18301), (9, 18307), (11, 18340), (12, 18346), (20, 18466), (25, 18532), (27, 18556), (30, 18583), (32, 18625), (35, 18652), (36, 18670), (38, 18676), (46, 18808), (51, 18871), (56, 18994), (59, 19003), (62, 19105), (64, 19132), (70, 19321), (78, 19456), (82, 19504), (89, 19651), (93, 19681), (94, 19690), (95, 19717), (97, 19726), (101, 19780), (103, 19807), (106, 19861), (109, 19912), (111, 19927), (114, 19960), (115, 19975), (123, 20113), (126, 20158), (138, 20287), (153, 20464),

Gene: Katzastrophic_17 Start: 13520, Stop: 15796, Start Num: 2

Candidate Starts for Katzastrophic_17:

(Start: 2 @13520 has 2 MA's), (4, 13586), (5, 13649), (10, 13772), (14, 13805), (17, 13847), (21, 13910), (28, 13976), (29, 13982), (40, 14102), (43, 14159), (47, 14219), (49, 14237), (51, 14264), (54, 14336), (58, 14387), (60, 14399), (64, 14510), (65, 14522), (73, 14708), (76, 14750), (79, 14825), (81, 14831), (82, 14870), (86, 14957), (93, 15047), (98, 15095), (99, 15122), (102, 15158), (105, 15212), (112, 15293), (114, 15308), (119, 15377), (129, 15500), (131, 15536), (132, 15545), (137, 15605), (141, 15632),

Gene: Poultriss_30 Start: 18442, Stop: 20820, Start Num: 3

Candidate Starts for Poultriss_30:

(Start: 3 @18442 has 2 MA's), (7, 18637), (16, 18751), (19, 18808), (25, 18880), (33, 18994), (34, 18997), (36, 19018), (38, 19024), (46, 19156), (51, 19219), (56, 19342), (57, 19345), (59, 19351), (62, 19453), (64, 19480), (65, 19492), (68, 19633), (75, 19702), (78, 19804), (82, 19852), (85, 19936), (89, 19999), (93, 20029), (94, 20038), (95, 20065), (97, 20074), (101, 20128), (103, 20155), (109, 20260), (110, 20272), (111, 20275), (115, 20311), (118, 20359), (126, 20494), (138, 20623), (146, 20728), (152, 20788), (153, 20800),