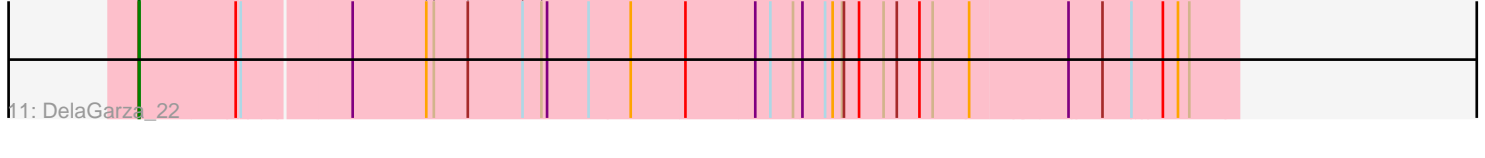
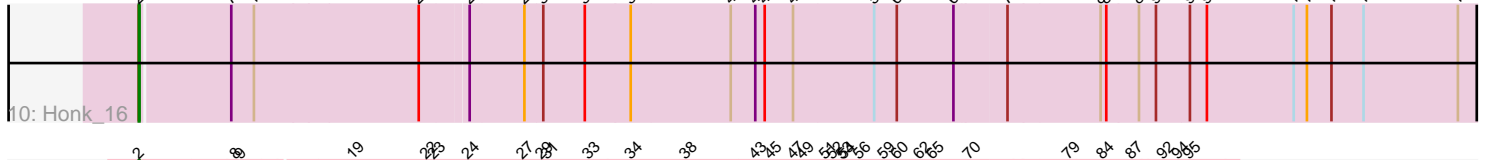
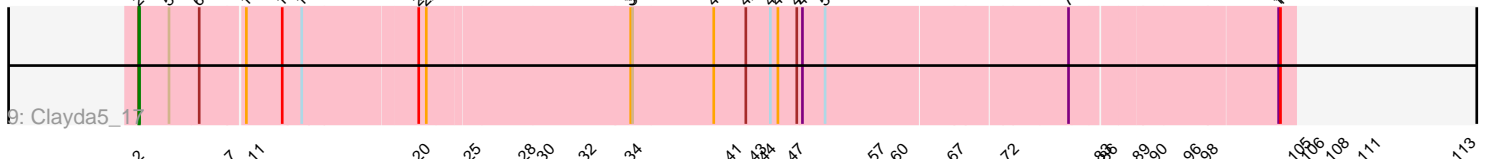
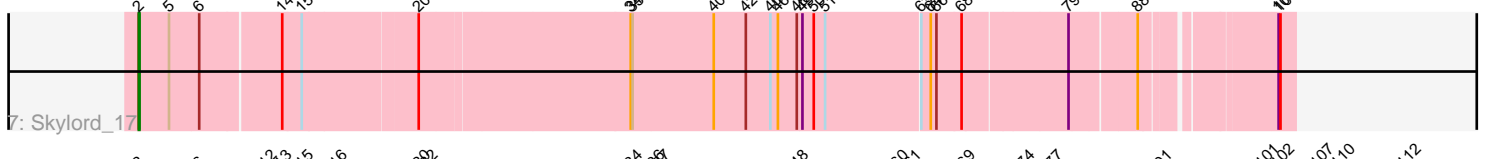
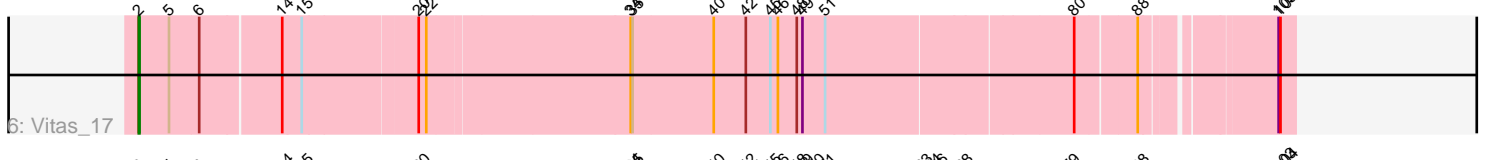
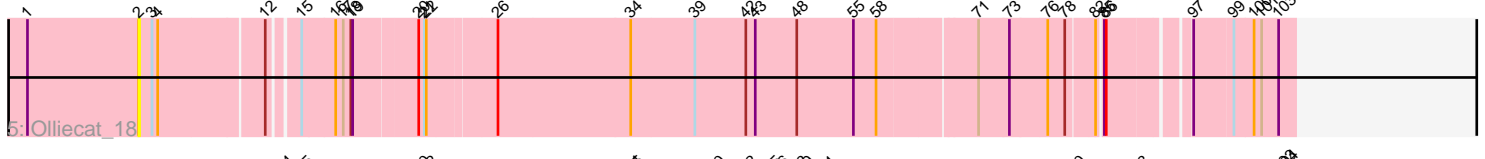
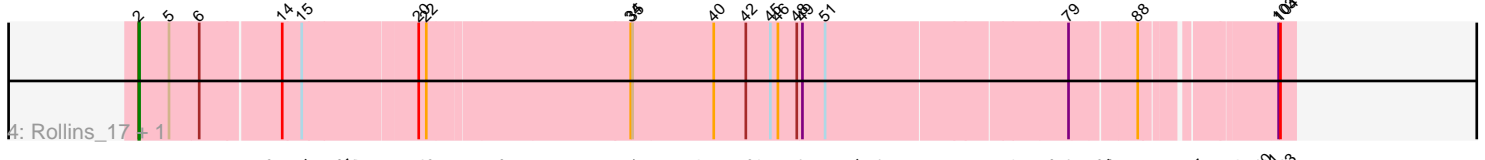
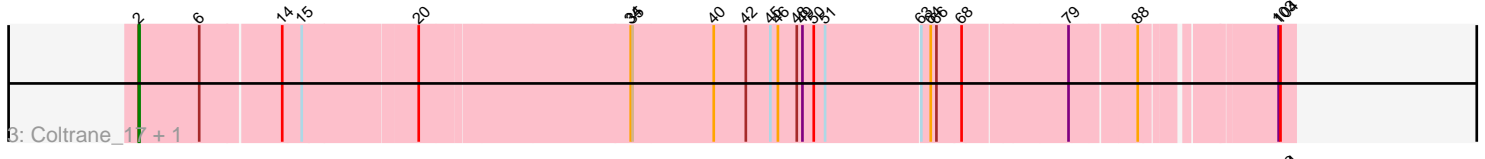
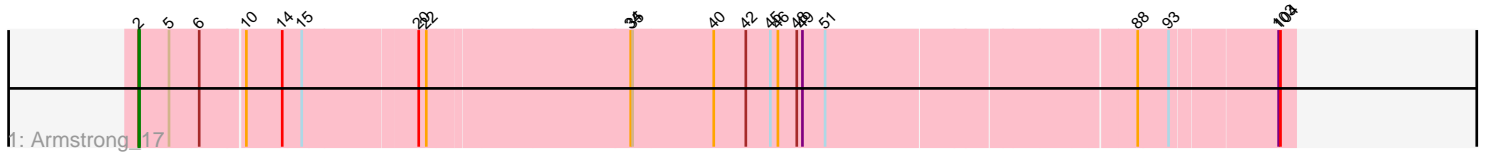


Pham 171888



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 171888 Report

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

Pham number 171888 has 13 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Armstrong_17
- Track 2 : Lahqtemish_18
- Track 3 : Coltrane_17, Brahms_17
- Track 4 : Rollins_17, Bernstein_17
- Track 5 : Olliecat_18
- Track 6 : Vitas_17
- Track 7 : Skylord_17
- Track 8 : IndyLu_18
- Track 9 : Clayda5_17
- Track 10 : Honk_16
- Track 11 : DelaGarza_22

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

The start number called the most often in the published annotations is 2, it was called in 12 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Armstrong_17, Bernstein_17, Brahms_17, Clayda5_17, Coltrane_17, DelaGarza_22, Honk_16, IndyLu_18, Lahqtemish_18, Olliecat_18, Rollins_17, Skylord_17, Vitas_17,

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

-

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

-

Summary by start number:

Start 2:

- Found in 13 of 13 (100.0%) of genes in pham
- Manual Annotations of this start: 12 of 12
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Armstrong_17 (EB), Bernstein_17 (EB), Brahms_17 (EB), Clayda5_17 (EB), Coltrane_17 (EB), DelaGarza_22 (GF), Honk_16 (EH), IndyLu_18 (EB), Lahqtemish_18 (EB), Ollicat_18 (EB), Rollins_17 (EB), Skylord_17 (EB), Vitas_17 (EB),

Summary by clusters:

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

Info for manual annotations of cluster EB:

- Start number 2 was manually annotated 10 times for cluster EB.

Info for manual annotations of cluster EH:

- Start number 2 was manually annotated 1 time for cluster EH.

Info for manual annotations of cluster GF:

- Start number 2 was manually annotated 1 time for cluster GF.

Gene Information:

Gene: Armstrong_17 Start: 12466, Stop: 14193, Start Num: 2

Candidate Starts for Armstrong_17:

(Start: 2 @12466 has 12 MA's), (5, 12514), (6, 12559), (10, 12625), (14, 12682), (15, 12712), (20, 12886), (22, 12898), (34, 13204), (35, 13207), (40, 13333), (42, 13384), (45, 13423), (46, 13435), (48, 13465), (49, 13471), (51, 13507), (88, 13963), (93, 14011), (103, 14167), (104, 14170),

Gene: Bernstein_17 Start: 12526, Stop: 14229, Start Num: 2

Candidate Starts for Bernstein_17:

(Start: 2 @12526 has 12 MA's), (5, 12574), (6, 12619), (14, 12742), (15, 12772), (20, 12946), (22, 12958), (34, 13264), (35, 13267), (40, 13393), (42, 13444), (45, 13483), (46, 13495), (48, 13525), (49, 13531), (51, 13567), (79, 13933), (88, 14023), (103, 14203), (104, 14206),

Gene: Brahms_17 Start: 12466, Stop: 14169, Start Num: 2

Candidate Starts for Brahms_17:

(Start: 2 @12466 has 12 MA's), (6, 12559), (14, 12682), (15, 12712), (20, 12886), (34, 13204), (35, 13207), (40, 13333), (42, 13384), (45, 13423), (46, 13435), (48, 13465), (49, 13471), (50, 13489), (51, 13507), (63, 13654), (64, 13669), (66, 13678), (68, 13717), (79, 13873), (88, 13963), (103, 14143), (104, 14146),

Gene: Clayda5_17 Start: 12466, Stop: 14199, Start Num: 2

Candidate Starts for Clayda5_17:

(Start: 2 @12466 has 12 MA's), (5, 12514), (6, 12559), (10, 12625), (14, 12682), (15, 12712), (20, 12886), (22, 12898), (34, 13204), (35, 13207), (40, 13333), (42, 13384), (45, 13423), (46, 13435), (48, 13465), (49, 13471), (51, 13507), (79, 13873), (103, 14173), (104, 14176),

Gene: Coltrane_17 Start: 12466, Stop: 14169, Start Num: 2

Candidate Starts for Coltrane_17:

(Start: 2 @12466 has 12 MA's), (6, 12559), (14, 12682), (15, 12712), (20, 12886), (34, 13204), (35, 13207), (40, 13333), (42, 13384), (45, 13423), (46, 13435), (48, 13465), (49, 13471), (50, 13489), (51, 13507), (63, 13654), (64, 13669), (66, 13678), (68, 13717), (79, 13873), (88, 13963), (103, 14143), (104, 14146),

Gene: DelaGarza_22 Start: 15128, Stop: 16816, Start Num: 2

Candidate Starts for DelaGarza_22:

(Start: 2 @15128 has 12 MA's), (8, 15275), (9, 15278), (19, 15440), (22, 15557), (23, 15569), (24, 15623), (27, 15710), (29, 15740), (31, 15749), (33, 15815), (34, 15881), (38, 15965), (43, 16073), (45, 16097), (47, 16133), (49, 16145), (51, 16181), (52, 16193), (53, 16208), (54, 16211), (56, 16235), (59, 16274), (60, 16295), (62, 16331), (65, 16352), (70, 16409), (79, 16556), (84, 16607), (87, 16652), (92, 16697), (94, 16721), (95, 16739),

Gene: Honk_16 Start: 12148, Stop: 14262, Start Num: 2

Candidate Starts for Honk_16:

(Start: 2 @12148 has 12 MA's), (7, 12286), (11, 12322), (20, 12580), (25, 12649), (28, 12733), (30, 12760), (32, 12826), (34, 12898), (41, 13054), (43, 13093), (44, 13108), (47, 13153), (57, 13279), (60, 13315), (67, 13405), (72, 13483), (83, 13627), (86, 13633), (89, 13684), (90, 13711), (96, 13762), (98, 13789), (105, 13927), (106, 13948), (108, 13987), (111, 14038), (113, 14188),

Gene: IndyLu_18 Start: 13944, Stop: 15914, Start Num: 2

Candidate Starts for IndyLu_18:

(Start: 2 @13944 has 12 MA's), (6, 14037), (12, 14133), (13, 14157), (15, 14190), (16, 14241), (20, 14364), (22, 14376), (34, 14682), (36, 14715), (37, 14724), (48, 14943), (60, 15099), (61, 15120), (69, 15204), (74, 15294), (77, 15339), (91, 15504), (101, 15663), (102, 15687), (107, 15750), (110, 15783), (112, 15888),

Gene: Lahqtemish_18 Start: 13989, Stop: 15962, Start Num: 2

Candidate Starts for Lahqtemish_18:

(Start: 2 @13989 has 12 MA's), (13, 14202), (15, 14235), (16, 14286), (20, 14409), (22, 14421), (34, 14727), (36, 14760), (37, 14769), (48, 14988), (51, 15030), (61, 15165), (69, 15249), (74, 15342), (75, 15366), (77, 15387), (81, 15426), (91, 15552), (101, 15711), (102, 15735), (109, 15828), (110, 15831), (112, 15936),

Gene: Olliecat_18 Start: 13859, Stop: 15553, Start Num: 2

Candidate Starts for Olliecat_18:

(1, 13682), (Start: 2 @13859 has 12 MA's), (3, 13880), (4, 13889), (12, 14048), (15, 14087), (16, 14138), (17, 14150), (18, 14162), (19, 14165), (20, 14261), (21, 14270), (22, 14273), (26, 14372), (34, 14579), (39, 14678), (42, 14759), (43, 14774), (48, 14840), (55, 14927), (58, 14963), (71, 15110), (73, 15158), (76, 15215), (78, 15242), (82, 15281), (85, 15287), (86, 15290), (97, 15398), (99, 15458), (100, 15488), (101, 15500), (103, 15527),

Gene: Rollins_17 Start: 12526, Stop: 14229, Start Num: 2

Candidate Starts for Rollins_17:

(Start: 2 @12526 has 12 MA's), (5, 12574), (6, 12619), (14, 12742), (15, 12772), (20, 12946), (22, 12958), (34, 13264), (35, 13267), (40, 13393), (42, 13444), (45, 13483), (46, 13495), (48, 13525), (49, 13531), (51, 13567), (79, 13933), (88, 14023), (103, 14203), (104, 14206),

Gene: Skylord_17 Start: 12466, Stop: 14169, Start Num: 2

Candidate Starts for Skylord_17:

(Start: 2 @12466 has 12 MA's), (5, 12514), (6, 12559), (14, 12682), (15, 12712), (20, 12886), (34, 13204), (35, 13207), (40, 13333), (42, 13384), (45, 13423), (46, 13435), (48, 13465), (49, 13471), (50, 13489), (51, 13507), (63, 13654), (64, 13669), (66, 13678), (68, 13717), (79, 13873), (88, 13963), (103, 14143), (104, 14146),

Gene: Vitas_17 Start: 12466, Stop: 14169, Start Num: 2

Candidate Starts for Vitas_17:

(Start: 2 @12466 has 12 MA's), (5, 12514), (6, 12559), (14, 12682), (15, 12712), (20, 12886), (22, 12898), (34, 13204), (35, 13207), (40, 13333), (42, 13384), (45, 13423), (46, 13435), (48, 13465), (49, 13471), (51, 13507), (80, 13879), (88, 13963), (103, 14143), (104, 14146),