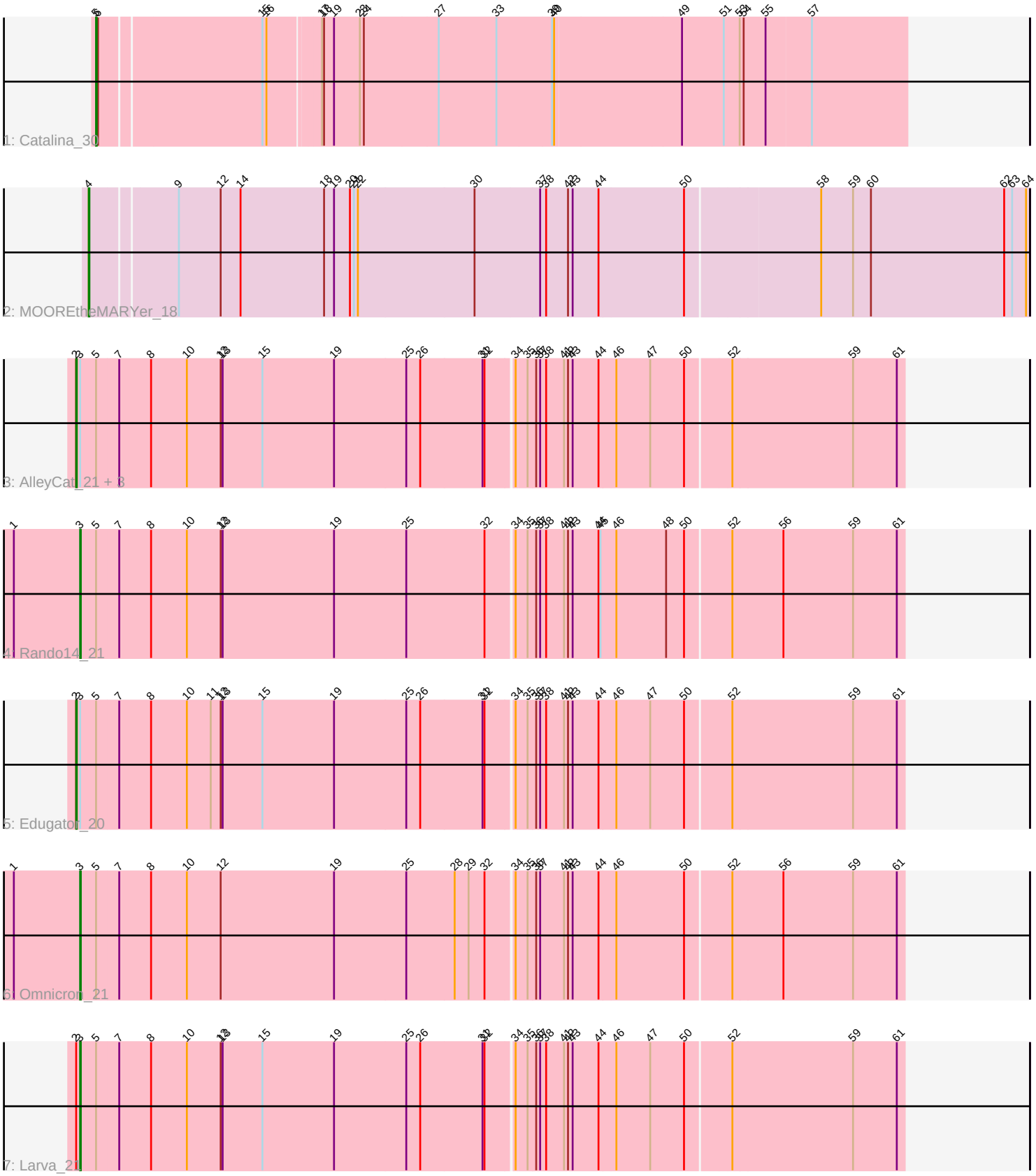
Pham 346403


1: Catalina_30
2: MOOREtheMARYer_18
3: AlleyCat_21 + 3
4: Rando14_21
5: Edugator_20
6: Omnicron_21
7: Larva_21

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 346403 Report

This analysis was run 11/14/26 on database version 672.

Pham number 346403 has 10 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Catalina_30
• Track 2 : MOOREtheMARYer_18
• Track 3 : AlleyCat_21, Dadosky_21, Neighly_21, Psycho_21
• Track 4 : Rando14_21
• Track 5 : Edugator_20
• Track 6 : Omnicron_21
• Track 7 : Larva_21

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 4 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AlleyCat_21, Dadosky_21, Edugator_20, Neighly_21, Psycho_21,

Genes that have the "Most Annotated" start but do not call it:
• Larva_21,

Genes that do not have the "Most Annotated" start:
• Catalina_30, MOOREtheMARYer_18, Omnicron_21, Rando14_21,

Summary by start number:

Start 2:
• Found in 6 of 10 (60.0%) of genes in pham
• Manual Annotations of this start: 4 of 9
• Called 83.3% of time when present
• Phage (with cluster) where this start called: AlleyCat_21 (K5), Dadosky_21 (K5), Edugator_20 (K5), Neighly_21 (K3), Psycho_21 (K5),

Start 3:
• Found in 8 of 10 (80.0%) of genes in pham
• Manual Annotations of this start: 3 of 9

• Called 37.5% of time when present
• Phage (with cluster) where this start called: Larva_21 (K5), Omnicron_21 (K5), Rando14_21 (K5),

Start 4:
• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MOOREtheMARYer_18 (G3),

Start 5:
• Found in 9 of 10 (90.0%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 11.1% of time when present
• Phage (with cluster) where this start called: Catalina_30 (A9),

Summary by clusters:

There are 4 clusters represented in this pham: A9, K3, G3, K5,

Info for manual annotations of cluster A9:
•Start number 5 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster G3:
•Start number 4 was manually annotated 1 time for cluster G3.

Info for manual annotations of cluster K5:
•Start number 2 was manually annotated 4 times for cluster K5.
•Start number 3 was manually annotated 3 times for cluster K5.

Gene Information:

Gene: AlleyCat_21 Start: 17473, Stop: 18690, Start Num: 2
Candidate Starts for AlleyCat_21:
(Start: 2 @17473 has 4 MA's), (Start: 3 @17479 has 3 MA's), (Start: 5 @17503 has 1 MA's), (7, 17536), (8, 17584), (10, 17638), (12, 17689), (13, 17692), (15, 17752), (19, 17860), (25, 17968), (26, 17989), (31, 18082), (32, 18085), (34, 18124), (35, 18139), (36, 18151), (37, 18157), (38, 18166), (41, 18193), (42, 18199), (43, 18205), (44, 18244), (46, 18268), (47, 18319), (50, 18370), (52, 18433), (59, 18613), (61, 18679),

Gene: Catalina_30 Start: 21747, Stop: 22925, Start Num: 5
Candidate Starts for Catalina_30:
(Start: 5 @21747 has 1 MA's), (6, 21750), (15, 21984), (16, 21987), (17, 22059), (18, 22062), (19, 22077), (23, 22116), (24, 22122), (27, 22233), (33, 22320), (39, 22401), (40, 22404), (49, 22590), (51, 22653), (53, 22677), (54, 22683), (55, 22716), (57, 22782),

Gene: Dadosky_21 Start: 17474, Stop: 18691, Start Num: 2
Candidate Starts for Dadosky_21:
(Start: 2 @17474 has 4 MA's), (Start: 3 @17480 has 3 MA's), (Start: 5 @17504 has 1 MA's), (7, 17537), (8, 17585), (10, 17639), (12, 17690), (13, 17693), (15, 17753), (19, 17861), (25, 17969), (26,

17990), (31, 18083), (32, 18086), (34, 18125), (35, 18140), (36, 18152), (37, 18158), (38, 18167), (41, 18194), (42, 18200), (43, 18206), (44, 18245), (46, 18269), (47, 18320), (50, 18371), (52, 18434), (59, 18614), (61, 18680),

Gene: Edugator_20 Start: 17474, Stop: 18691, Start Num: 2
Candidate Starts for Edugator_20:
(Start: 2 @17474 has 4 MA's), (Start: 3 @17480 has 3 MA's), (Start: 5 @17504 has 1 MA's), (7, 17537), (8, 17585), (10, 17639), (11, 17675), (12, 17690), (13, 17693), (15, 17753), (19, 17861), (25, 17969), (26, 17990), (31, 18083), (32, 18086), (34, 18125), (35, 18140), (36, 18152), (37, 18158), (38, 18167), (41, 18194), (42, 18200), (43, 18206), (44, 18245), (46, 18269), (47, 18320), (50, 18371), (52, 18434), (59, 18614), (61, 18680),

Gene: Larva_21 Start: 17347, Stop: 18558, Start Num: 3
Candidate Starts for Larva_21:
(Start: 2 @17341 has 4 MA's), (Start: 3 @17347 has 3 MA's), (Start: 5 @17371 has 1 MA's), (7, 17404), (8, 17452), (10, 17506), (12, 17557), (13, 17560), (15, 17620), (19, 17728), (25, 17836), (26, 17857), (31, 17950), (32, 17953), (34, 17992), (35, 18007), (36, 18019), (37, 18025), (38, 18034), (41, 18061), (42, 18067), (43, 18073), (44, 18112), (46, 18136), (47, 18187), (50, 18238), (52, 18301), (59, 18481), (61, 18547),

Gene: MOOREtheMARYer_18 Start: 16898, Stop: 18277, Start Num: 4
Candidate Starts for MOOREtheMARYer_18:
(Start: 4 @16898 has 1 MA's), (9, 17018), (12, 17081), (14, 17111), (18, 17237), (19, 17252), (20, 17276), (21, 17282), (22, 17288), (30, 17462), (37, 17558), (38, 17567), (42, 17600), (43, 17606), (44, 17645), (50, 17771), (58, 17963), (59, 18011), (60, 18038), (62, 18239), (63, 18251), (64, 18272),

Gene: Neighly_21 Start: 17340, Stop: 18557, Start Num: 2
Candidate Starts for Neighly_21:
(Start: 2 @17340 has 4 MA's), (Start: 3 @17346 has 3 MA's), (Start: 5 @17370 has 1 MA's), (7, 17403), (8, 17451), (10, 17505), (12, 17556), (13, 17559), (15, 17619), (19, 17727), (25, 17835), (26, 17856), (31, 17949), (32, 17952), (34, 17991), (35, 18006), (36, 18018), (37, 18024), (38, 18033), (41, 18060), (42, 18066), (43, 18072), (44, 18111), (46, 18135), (47, 18186), (50, 18237), (52, 18300), (59, 18480), (61, 18546),

Gene: Omnicron_21 Start: 16267, Stop: 17478, Start Num: 3
Candidate Starts for Omnicron_21:
(1, 16168), (Start: 3 @16267 has 3 MA's), (Start: 5 @16291 has 1 MA's), (7, 16324), (8, 16372), (10, 16426), (12, 16477), (19, 16648), (25, 16756), (28, 16828), (29, 16849), (32, 16873), (34, 16912), (35, 16927), (36, 16939), (37, 16945), (41, 16981), (42, 16987), (43, 16993), (44, 17032), (46, 17056), (50, 17158), (52, 17221), (56, 17296), (59, 17401), (61, 17467),

Gene: Psycho_21 Start: 17471, Stop: 18688, Start Num: 2
Candidate Starts for Psycho_21:
(Start: 2 @17471 has 4 MA's), (Start: 3 @17477 has 3 MA's), (Start: 5 @17501 has 1 MA's), (7, 17534), (8, 17582), (10, 17636), (12, 17687), (13, 17690), (15, 17750), (19, 17858), (25, 17966), (26, 17987), (31, 18080), (32, 18083), (34, 18122), (35, 18137), (36, 18149), (37, 18155), (38, 18164), (41, 18191), (42, 18197), (43, 18203), (44, 18242), (46, 18266), (47, 18317), (50, 18368), (52, 18431), (59, 18611), (61, 18677),

Gene: Rando14_21 Start: 16166, Stop: 17377, Start Num: 3
Candidate Starts for Rando14_21:
(1, 16067), (Start: 3 @16166 has 3 MA's), (Start: 5 @16190 has 1 MA's), (7, 16223), (8, 16271), (10, 16325), (12, 16376), (13, 16379), (19, 16547), (25, 16655), (32, 16772), (34, 16811), (35, 16826), (36,

16838), (37, 16844), (38, 16853), (41, 16880), (42, 16886), (43, 16892), (44, 16931), (45, 16934), (46, 16955), (48, 17030), (50, 17057), (52, 17120), (56, 17195), (59, 17300), (61, 17366),