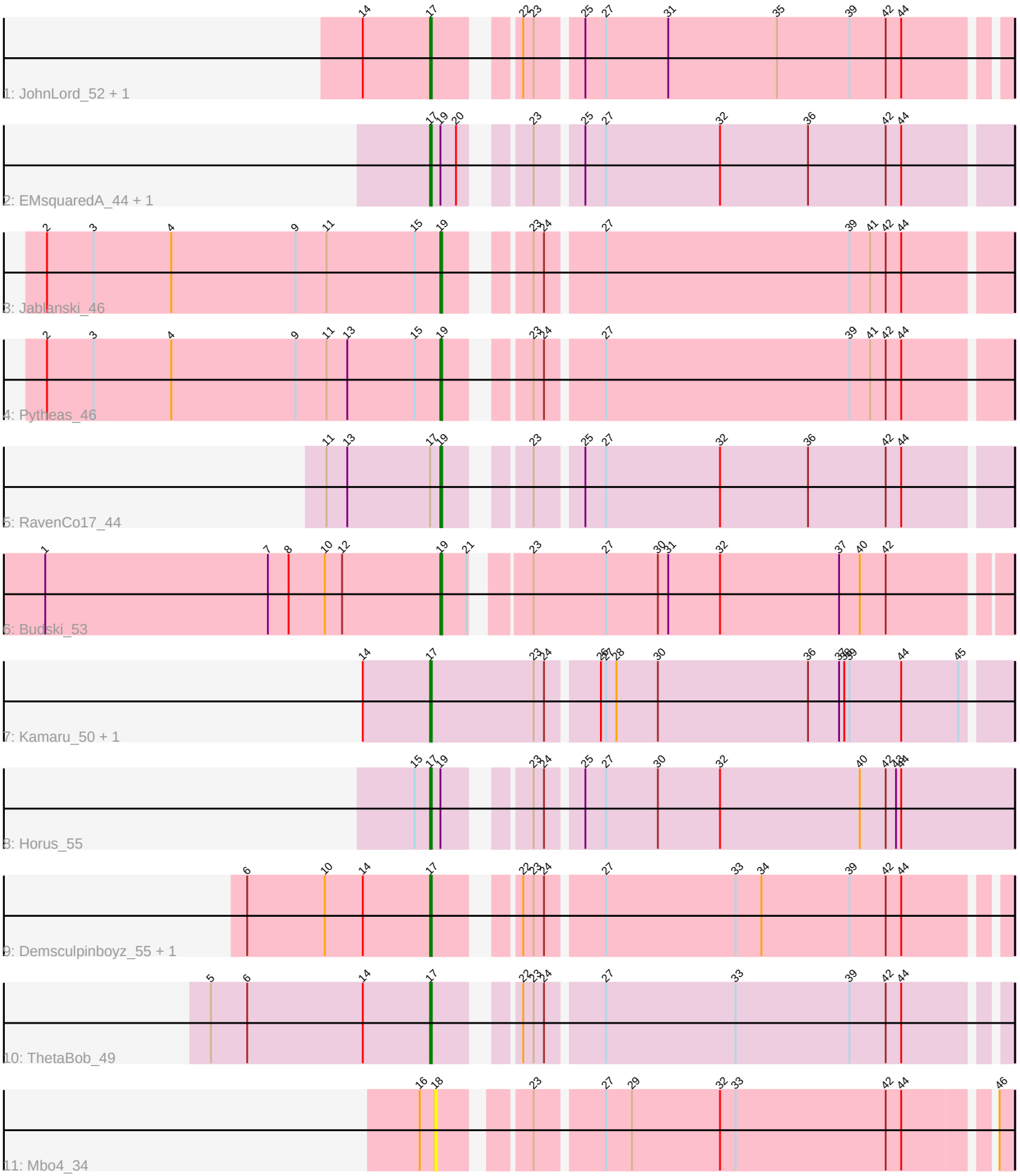
Pham 348143


1: JohnLord_52 + 1
2: EMsquaredA_44 + 1
3: Jablanski_46
4: Pytheas_46
5: RavenCo17_44
6: Budski_53
7: Kamaru_50 + 1
8: Horus_55
9: Demsculpinboyz_55 + 1
10: ThetaBob_49
11: Mbo4_34

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 348143 Report

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

Pham number 348143 has 15 members, 2 are drafts.

Phages represented in each track:
• Track 1 : JohnLord_52, Mao1_49
• Track 2 : EMsquaredA_44, Marteena_43
• Track 3 : Jablanski_46
• Track 4 : Pytheas_46
• Track 5 : RavenCo17_44
• Track 6 : Budski_53
• Track 7 : Kamaru_50, LitninMcQueen_49
• Track 8 : Horus_55
• Track 9 : Demsculpinboyz_55, Che9d_53
• Track 10 : ThetaBob_49
• Track 11 : Mbo4_34

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

The start number called the most often in the published annotations is 17, it was called in 9 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Che9d_53, Demsculpinboyz_55, EMsquaredA_44, Horus_55, JohnLord_52, Kamaru_50, LitninMcQueen_49, Mao1_49, Marteena_43, ThetaBob_49,

Genes that have the "Most Annotated" start but do not call it:
• RavenCo17_44,

Genes that do not have the "Most Annotated" start:
• Budski_53, Jablanski_46, Mbo4_34, Pytheas_46,

Summary by start number:

Start 17:
• Found in 11 of 15 (73.3%) of genes in pham
• Manual Annotations of this start: 9 of 13
• Called 90.9% of time when present

• Phage (with cluster) where this start called: Che9d_53 (F2), Demsculpinboyz_55 (F2), EMsquaredA_44 (CY1), Horus_55 (DN1), JohnLord_52 (AD), Kamaru_50 (DN1), LitninMcQueen_49 (DN1), Mao1_49 (AD), Marteena_43 (CY1), ThetaBob_49 (F4),

Start 18:
• Found in 1 of 15 (6.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mbo4_34 (singleton),

Start 19:
• Found in 7 of 15 (46.7%) of genes in pham
• Manual Annotations of this start: 4 of 13
• Called 57.1% of time when present
• Phage (with cluster) where this start called: Budski_53 (DN), Jablanski_46 (CY3), Pytheas_46 (CY3), RavenCo17_44 (CZ8),

Summary by clusters:

There are 9 clusters represented in this pham: DN, CY3, F2, F4, AD, CZ8, CY1, DN1, singleton,

Info for manual annotations of cluster AD:
•Start number 17 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster CY1:
•Start number 17 was manually annotated 2 times for cluster CY1.

Info for manual annotations of cluster CY3:
•Start number 19 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CZ8:
•Start number 19 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DN:
•Start number 19 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 17 was manually annotated 3 times for cluster DN1.

Info for manual annotations of cluster F2:
•Start number 17 was manually annotated 2 times for cluster F2.

Info for manual annotations of cluster F4:
•Start number 17 was manually annotated 1 time for cluster F4.

Gene Information:

Gene: Budski_53 Start: 35974, Stop: 36282, Start Num: 19
Candidate Starts for Budski_53:

(1, 35746), (7, 35875), (8, 35887), (10, 35908), (12, 35917), (Start: 19 @35974 has 4 MA's), (21, 35989), (23, 36013), (27, 36055), (30, 36085), (31, 36091), (32, 36121), (37, 36190), (40, 36202), (42, 36217),

Gene: Che9d_53 Start: 34308, Stop: 34610, Start Num: 17
Candidate Starts for Che9d_53:
(6, 34203), (10, 34248), (14, 34269), (Start: 17 @34308 has 9 MA's), (22, 34344), (23, 34350), (24, 34356), (27, 34386), (33, 34461), (34, 34476), (39, 34527), (42, 34548), (44, 34557),

Gene: Demsculpinboyz_55 Start: 34420, Stop: 34722, Start Num: 17
Candidate Starts for Demsculpinboyz_55:
(6, 34315), (10, 34360), (14, 34381), (Start: 17 @34420 has 9 MA's), (22, 34456), (23, 34462), (24, 34468), (27, 34498), (33, 34573), (34, 34588), (39, 34639), (42, 34660), (44, 34669),

Gene: EMsquaredA_44 Start: 35048, Stop: 35356, Start Num: 17
Candidate Starts for EMsquaredA_44:
(Start: 17 @35048 has 9 MA's), (Start: 19 @35054 has 4 MA's), (20, 35063), (23, 35090), (25, 35114), (27, 35126), (32, 35192), (36, 35243), (42, 35288), (44, 35297),

Gene: Horus_55 Start: 37171, Stop: 37485, Start Num: 17
Candidate Starts for Horus_55:
(15, 37162), (Start: 17 @37171 has 9 MA's), (Start: 19 @37177 has 4 MA's), (23, 37213), (24, 37219), (25, 37237), (27, 37249), (30, 37279), (32, 37315), (40, 37396), (42, 37411), (43, 37417), (44, 37420),

Gene: Jablanski_46 Start: 37298, Stop: 37600, Start Num: 19
Candidate Starts for Jablanski_46:
(2, 37070), (3, 37097), (4, 37142), (9, 37214), (11, 37232), (15, 37283), (Start: 19 @37298 has 4 MA's), (23, 37334), (24, 37340), (27, 37370), (39, 37511), (41, 37523), (42, 37532), (44, 37541),

Gene: JohnLord_52 Start: 43681, Stop: 43983, Start Num: 17
Candidate Starts for JohnLord_52:
(14, 43642), (Start: 17 @43681 has 9 MA's), (22, 43717), (23, 43723), (25, 43747), (27, 43759), (31, 43795), (35, 43858), (39, 43900), (42, 43921), (44, 43930),

Gene: Kamaru_50 Start: 35537, Stop: 35863, Start Num: 17
Candidate Starts for Kamaru_50:
(14, 35498), (Start: 17 @35537 has 9 MA's), (23, 35597), (24, 35603), (26, 35630), (27, 35633), (28, 35639), (30, 35663), (36, 35750), (37, 35768), (38, 35771), (39, 35774), (44, 35804), (45, 35837),

Gene: LitninMcQueen_49 Start: 35286, Stop: 35612, Start Num: 17
Candidate Starts for LitninMcQueen_49:
(14, 35247), (Start: 17 @35286 has 9 MA's), (23, 35346), (24, 35352), (26, 35379), (27, 35382), (28, 35388), (30, 35412), (36, 35499), (37, 35517), (38, 35520), (39, 35523), (44, 35553), (45, 35586),

Gene: Mao1_49 Start: 42684, Stop: 42986, Start Num: 17
Candidate Starts for Mao1_49:
(14, 42645), (Start: 17 @42684 has 9 MA's), (22, 42720), (23, 42726), (25, 42750), (27, 42762), (31, 42798), (35, 42861), (39, 42903), (42, 42924), (44, 42933),

Gene: Marteena_43 Start: 35048, Stop: 35356, Start Num: 17
Candidate Starts for Marteena_43:
(Start: 17 @35048 has 9 MA's), (Start: 19 @35054 has 4 MA's), (20, 35063), (23, 35090), (25, 35114), (27, 35126), (32, 35192), (36, 35243), (42, 35288), (44, 35297),

Gene: Mbo4_34 Start: 31400, Stop: 31702, Start Num: 18
Candidate Starts for Mbo4_34:
(16, 31391), (18, 31400), (23, 31442), (27, 31478), (29, 31493), (32, 31544), (33, 31553), (42, 31640), (44, 31649), (46, 31694),

Gene: Pytheas_46 Start: 37297, Stop: 37599, Start Num: 19
Candidate Starts for Pytheas_46:
(2, 37069), (3, 37096), (4, 37141), (9, 37213), (11, 37231), (13, 37243), (15, 37282), (Start: 19 @37297 has 4 MA's), (23, 37333), (24, 37339), (27, 37369), (39, 37510), (41, 37522), (42, 37531), (44, 37540),

Gene: RavenCo17_44 Start: 35359, Stop: 35661, Start Num: 19
Candidate Starts for RavenCo17_44:
(11, 35293), (13, 35305), (Start: 17 @35353 has 9 MA's), (Start: 19 @35359 has 4 MA's), (23, 35395), (25, 35419), (27, 35431), (32, 35497), (36, 35548), (42, 35593), (44, 35602),

Gene: ThetaBob_49 Start: 35232, Stop: 35534, Start Num: 17
Candidate Starts for ThetaBob_49:
(5, 35106), (6, 35127), (14, 35193), (Start: 17 @35232 has 9 MA's), (22, 35268), (23, 35274), (24, 35280), (27, 35310), (33, 35385), (39, 35451), (42, 35472), (44, 35481),