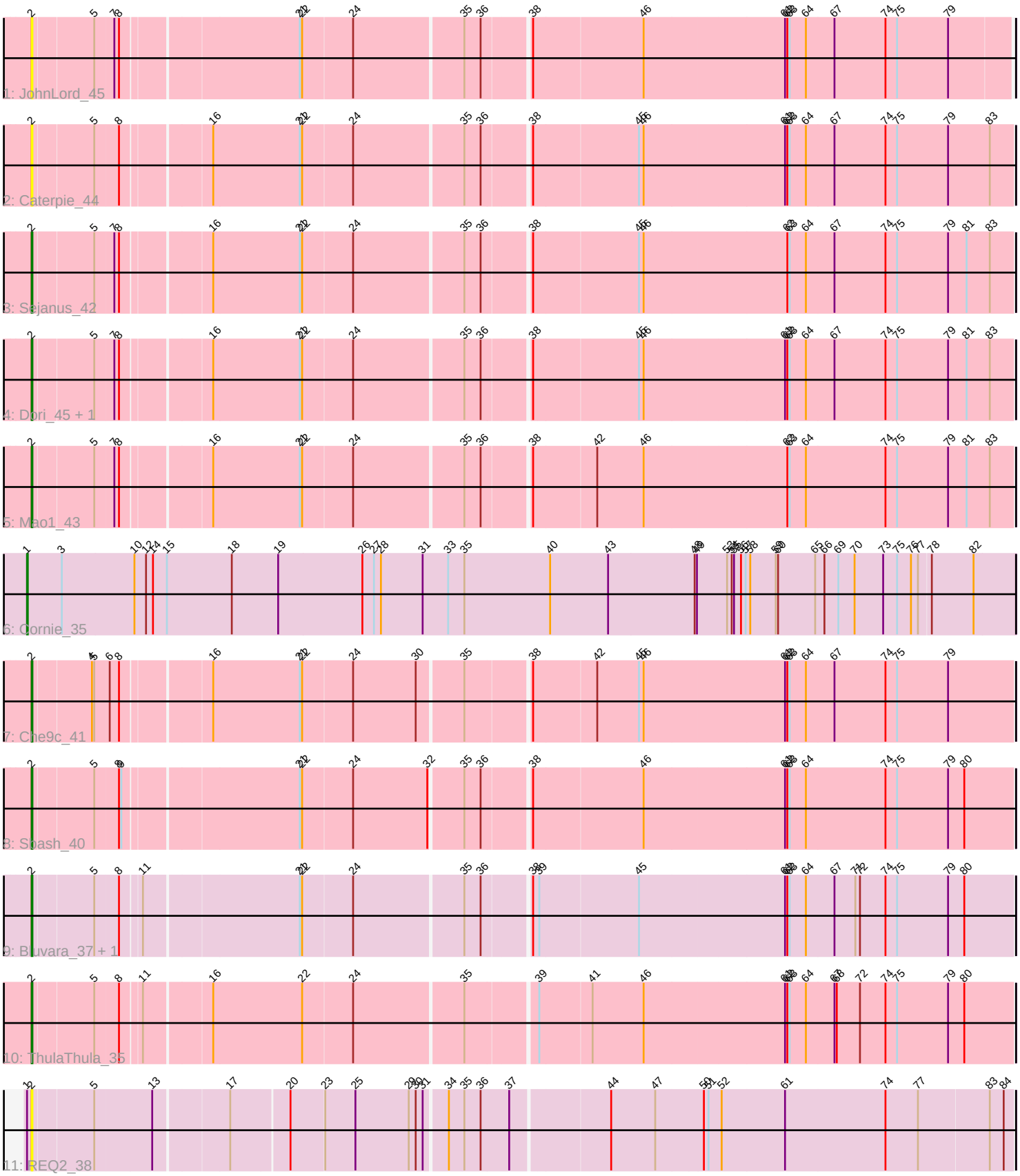
Pham 348178


1: JohnLord_45
2: Caterpie_44
3: Sejanus_42
4: Dori_45 + 1
5: Mao1_43
6: Gornie_35
7: Che9c_41
8: Sbash_40
9: Bluvara_37 + 1
10: ThulaThula_35
11: REQ2_38

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 348178 Report

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

Pham number 348178 has 13 members, 4 are drafts.

Phages represented in each track:
• Track 1 : JohnLord_45
• Track 2 : Caterpie_44
• Track 3 : Sejanus_42
• Track 4 : Dori_45, Mask_46
• Track 5 : Mao1_43
• Track 6 : Cornie_35
• Track 7 : Che9c_41
• Track 8 : Sbash_40
• Track 9 : Bluvara_37, Stuck_44
• Track 10 : ThulaThula_35
• Track 11 : REQ2_38

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

Genes that call this "Most Annotated" start:
• Bluvara_37, Caterpie_44, Che9c_41, Dori_45, JohnLord_45, Mao1_43, Mask_46, REQ2_38, Sbash_40, Sejanus_42, Stuck_44, ThulaThula_35,

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

Genes that do not have the "Most Annotated" start:
• Cornie_35,

Summary by start number:

Start 1:
• Found in 2 of 13 (15.4%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Cornie_35 (F5),

Start 2:
• Found in 12 of 13 (92.3%) of genes in pham
• Manual Annotations of this start: 8 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bluvara_37 (I3), Caterpie_44 (AD), Che9c_41 (I2), Dori_45 (AD), JohnLord_45 (AD), Mao1_43 (AD), Mask_46 (AD), REQ2_38 (singleton), Sbash_40 (I2), Sejanus_42 (AD), Stuck_44 (I2), ThulaThula_35 (P5),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, AD, P5, I3, I2, F5,

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

Info for manual annotations of cluster F5:
•Start number 1 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster I2:
•Start number 2 was manually annotated 3 times for cluster I2.

Info for manual annotations of cluster P5:
•Start number 2 was manually annotated 1 time for cluster P5.

Gene Information:

Gene: Bluvara_37 Start: 31878, Stop: 30676, Start Num: 2
Candidate Starts for Bluvara_37:
(Start: 2 @31878 has 8 MA's), (5, 31803), (8, 31773), (11, 31749), (21, 31557), (22, 31554), (24, 31491), (35, 31356), (36, 31335), (38, 31281), (39, 31275), (45, 31152), (61, 30969), (62, 30966), (63, 30963), (64, 30942), (67, 30906), (71, 30879), (72, 30873), (74, 30840), (75, 30825), (79, 30759), (80, 30738),

Gene: Caterpie_44 Start: 40777, Stop: 39575, Start Num: 2
Candidate Starts for Caterpie_44:
(Start: 2 @40777 has 8 MA's), (5, 40702), (8, 40672), (16, 40567), (21, 40456), (22, 40453), (24, 40390), (35, 40255), (36, 40234), (38, 40180), (45, 40051), (46, 40045), (61, 39868), (62, 39865), (63, 39862), (64, 39841), (67, 39805), (74, 39739), (75, 39724), (79, 39658), (83, 39604),

Gene: Che9c_41 Start: 33550, Stop: 32348, Start Num: 2
Candidate Starts for Che9c_41:
(Start: 2 @33550 has 8 MA's), (4, 33478), (5, 33475), (6, 33457), (8, 33445), (16, 33340), (21, 33229), (22, 33226), (24, 33163), (30, 33082), (35, 33028), (38, 32953), (42, 32878), (45, 32824), (46, 32818), (61, 32641), (62, 32638), (63, 32635), (64, 32614), (67, 32578), (74, 32512), (75, 32497), (79, 32431),

Gene: Cornie_35 Start: 29877, Stop: 31148, Start Num: 1
Candidate Starts for Cornie_35:

(Start: 1 @29877 has 1 MA's), (3, 29922), (10, 30015), (12, 30030), (14, 30039), (15, 30057), (18, 30141), (19, 30201), (26, 30309), (27, 30324), (28, 30333), (31, 30387), (33, 30420), (35, 30441), (40, 30552), (43, 30627), (48, 30738), (49, 30741), (53, 30780), (54, 30786), (55, 30789), (56, 30798), (57, 30804), (58, 30810), (59, 30843), (60, 30846), (65, 30894), (66, 30906), (69, 30924), (70, 30945), (73, 30981), (75, 30999), (76, 31017), (77, 31026), (78, 31041), (82, 31095),

Gene: Dori_45 Start: 42022, Stop: 40820, Start Num: 2
Candidate Starts for Dori_45:
(Start: 2 @42022 has 8 MA's), (5, 41947), (7, 41923), (8, 41917), (16, 41812), (21, 41701), (22, 41698), (24, 41635), (35, 41500), (36, 41479), (38, 41425), (45, 41296), (46, 41290), (61, 41113), (62, 41110), (63, 41107), (64, 41086), (67, 41050), (74, 40984), (75, 40969), (79, 40903), (81, 40879), (83, 40849),

Gene: JohnLord_45 Start: 41082, Stop: 39886, Start Num: 2
Candidate Starts for JohnLord_45:
(Start: 2 @41082 has 8 MA's), (5, 41007), (7, 40983), (8, 40977), (21, 40761), (22, 40758), (24, 40695), (35, 40560), (36, 40539), (38, 40485), (46, 40350), (61, 40173), (62, 40170), (63, 40167), (64, 40146), (67, 40110), (74, 40044), (75, 40029), (79, 39963),

Gene: Mao1_43 Start: 40085, Stop: 38883, Start Num: 2
Candidate Starts for Mao1_43:
(Start: 2 @40085 has 8 MA's), (5, 40010), (7, 39986), (8, 39980), (16, 39875), (21, 39764), (22, 39761), (24, 39698), (35, 39563), (36, 39542), (38, 39488), (42, 39413), (46, 39353), (62, 39173), (63, 39170), (64, 39149), (74, 39047), (75, 39032), (79, 38966), (81, 38942), (83, 38912),

Gene: Mask_46 Start: 43255, Stop: 42053, Start Num: 2
Candidate Starts for Mask_46:
(Start: 2 @43255 has 8 MA's), (5, 43180), (7, 43156), (8, 43150), (16, 43045), (21, 42934), (22, 42931), (24, 42868), (35, 42733), (36, 42712), (38, 42658), (45, 42529), (46, 42523), (61, 42346), (62, 42343), (63, 42340), (64, 42319), (67, 42283), (74, 42217), (75, 42202), (79, 42136), (81, 42112), (83, 42082),

Gene: REQ2_38 Start: 31529, Stop: 30324, Start Num: 2
Candidate Starts for REQ2_38:
(Start: 1 @31535 has 1 MA's), (Start: 2 @31529 has 8 MA's), (5, 31454), (13, 31382), (17, 31292), (20, 31220), (23, 31178), (25, 31139), (29, 31070), (30, 31061), (31, 31052), (34, 31025), (35, 31007), (36, 30986), (37, 30950), (44, 30833), (47, 30776), (50, 30716), (51, 30710), (52, 30695), (61, 30614), (74, 30485), (77, 30443), (83, 30353), (84, 30335),

Gene: Sbash_40 Start: 34462, Stop: 33260, Start Num: 2
Candidate Starts for Sbash_40:
(Start: 2 @34462 has 8 MA's), (5, 34387), (8, 34357), (9, 34354), (21, 34141), (22, 34138), (24, 34075), (32, 33979), (35, 33940), (36, 33919), (38, 33865), (46, 33730), (61, 33553), (62, 33550), (63, 33547), (64, 33526), (74, 33424), (75, 33409), (79, 33343), (80, 33322),

Gene: Sejanus_42 Start: 40492, Stop: 39290, Start Num: 2
Candidate Starts for Sejanus_42:
(Start: 2 @40492 has 8 MA's), (5, 40417), (7, 40393), (8, 40387), (16, 40282), (21, 40171), (22, 40168), (24, 40105), (35, 39970), (36, 39949), (38, 39895), (45, 39766), (46, 39760), (62, 39580), (63, 39577), (64, 39556), (67, 39520), (74, 39454), (75, 39439), (79, 39373), (81, 39349), (83, 39319),

Gene: Stuck_44 Start: 36731, Stop: 35529, Start Num: 2
Candidate Starts for Stuck_44:
(Start: 2 @36731 has 8 MA's), (5, 36656), (8, 36626), (11, 36602), (21, 36410), (22, 36407), (24, 36344), (35, 36209), (36, 36188), (38, 36134), (39, 36128), (45, 36005), (61, 35822), (62, 35819), (63,

35816), (64, 35795), (67, 35759), (71, 35732), (72, 35726), (74, 35693), (75, 35678), (79, 35612), (80, 35591),

Gene: ThulaThula_35 Start: 29873, Stop: 28671, Start Num: 2
Candidate Starts for ThulaThula_35:
(Start: 2 @29873 has 8 MA's), (5, 29798), (8, 29768), (11, 29744), (16, 29663), (22, 29549), (24, 29486), (35, 29351), (39, 29270), (41, 29207), (46, 29141), (61, 28964), (62, 28961), (63, 28958), (64, 28937), (67, 28901), (68, 28898), (72, 28868), (74, 28835), (75, 28820), (79, 28754), (80, 28733),