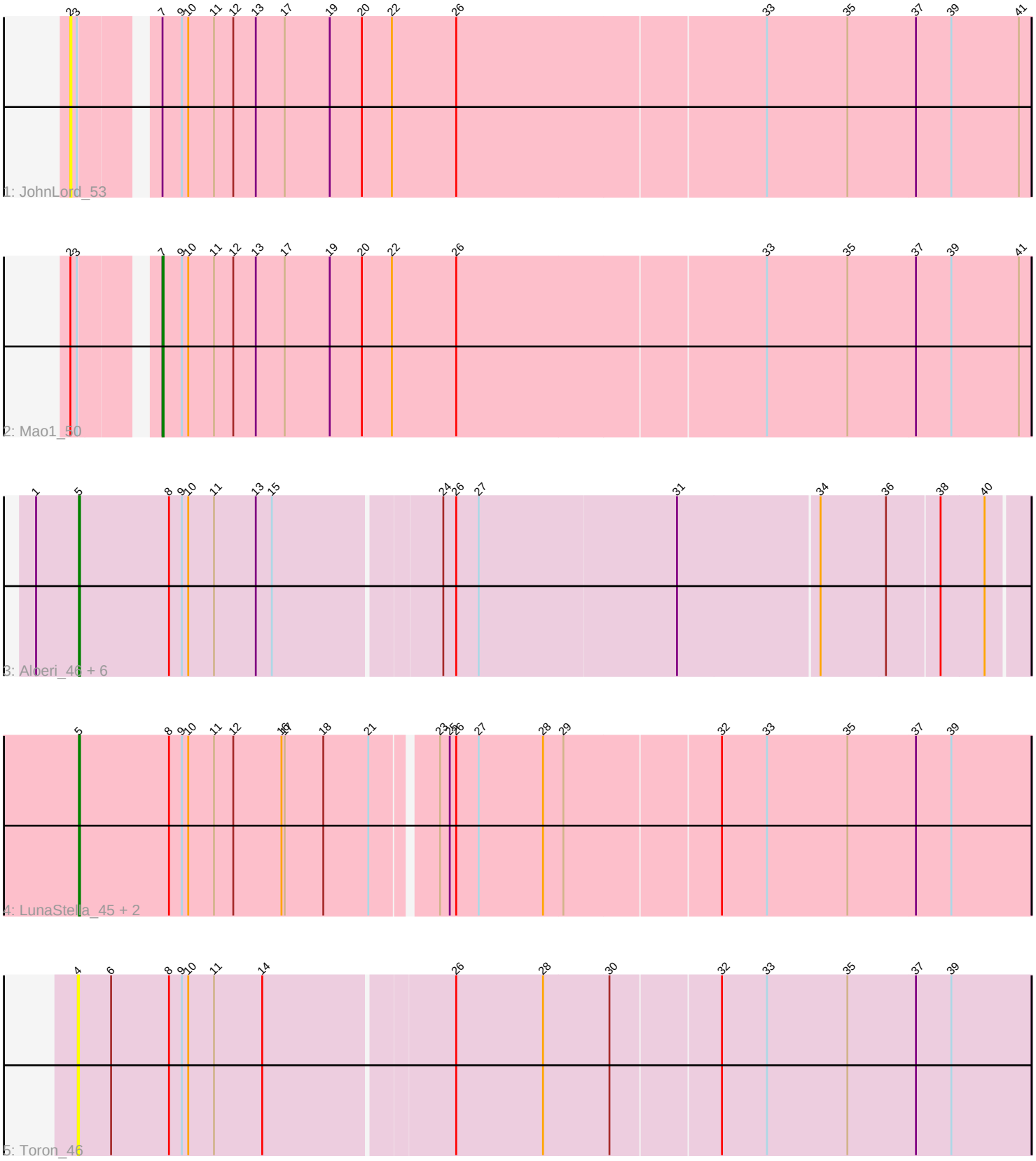
Pham 297103


1: JohnLord_53
2: Mao1_50
3: Alberi_46 + 6
4: LunaStella_45 + 2
5: Toron_46

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 297103 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297103 has 13 members, 2 are drafts.

Phages represented in each track:
• Track 1 : JohnLord_53
• Track 2 : Mao1_50
• Track 3 : Aloeri_46, Awesomesauce_46, Misha28_44, ChickenDinner_45, Piper2020_46, DocMcStuffins_45, TootsiePop_44
• Track 4 : LunaStella_45, MooMoo_44, TChen_47
• Track 5 : Toron_46

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

The start number called the most often in the published annotations is 5, it was called in 10 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aloeri_46, Awesomesauce_46, ChickenDinner_45, DocMcStuffins_45, LunaStella_45, Misha28_44, MooMoo_44, Piper2020_46, TChen_47, TootsiePop_44,

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

Genes that do not have the "Most Annotated" start:
• JohnLord_53, Mao1_50, Toron_46,

Summary by start number:

Start 2:
• Found in 2 of 13 (15.4%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: JohnLord_53 (AD),

Start 4:
• Found in 1 of 13 (7.7%) of genes in pham
• No Manual Annotations of this start.

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Toron_46 (F6),

Start 5:
• Found in 10 of 13 (76.9%) of genes in pham
• Manual Annotations of this start: 10 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aloeri_46 (F1), Awesomesauce_46 (F1), ChickenDinner_45 (F1), DocMcStuffins_45 (F1), LunaStella_45 (F4), Misha28_44 (F1), MooMoo_44 (singleton), Piper2020_46 (F1), TChen_47 (F4), TootsiePop_44 (F1),

Start 7:
• Found in 2 of 13 (15.4%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Mao1_50 (AD),

Summary by clusters:

There are 5 clusters represented in this pham: F1, singleton, F4, AD, F6,

Info for manual annotations of cluster AD:
•Start number 7 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster F1:
•Start number 5 was manually annotated 7 times for cluster F1.

Info for manual annotations of cluster F4:
•Start number 5 was manually annotated 2 times for cluster F4.

Gene Information:

Gene: Aloeri_46 Start: 34616, Stop: 35476, Start Num: 5
Candidate Starts for Aloeri_46:
(1, 34577), (Start: 5 @34616 has 10 MA's), (8, 34700), (9, 34712), (10, 34718), (11, 34742), (13, 34781), (15, 34796), (24, 34946), (26, 34958), (27, 34979), (31, 35162), (34, 35291), (36, 35351), (38, 35399), (40, 35438),

Gene: Awesomesauce_46 Start: 33878, Stop: 34738, Start Num: 5
Candidate Starts for Awesomesauce_46:
(1, 33839), (Start: 5 @33878 has 10 MA's), (8, 33962), (9, 33974), (10, 33980), (11, 34004), (13, 34043), (15, 34058), (24, 34208), (26, 34220), (27, 34241), (31, 34424), (34, 34553), (36, 34613), (38, 34661), (40, 34700),

Gene: ChickenDinner_45 Start: 34616, Stop: 35476, Start Num: 5
Candidate Starts for ChickenDinner_45:
(1, 34577), (Start: 5 @34616 has 10 MA's), (8, 34700), (9, 34712), (10, 34718), (11, 34742), (13, 34781), (15, 34796), (24, 34946), (26, 34958), (27, 34979), (31, 35162), (34, 35291), (36, 35351), (38, 35399), (40, 35438),

Gene: DocMcStuffins_45 Start: 34616, Stop: 35476, Start Num: 5
Candidate Starts for DocMcStuffins_45:
(1, 34577), (Start: 5 @34616 has 10 MA's), (8, 34700), (9, 34712), (10, 34718), (11, 34742), (13, 34781), (15, 34796), (24, 34946), (26, 34958), (27, 34979), (31, 35162), (34, 35291), (36, 35351), (38, 35399), (40, 35438),

Gene: JohnLord_53 Start: 44026, Stop: 44889, Start Num: 2
Candidate Starts for JohnLord_53:
(2, 44026), (3, 44032), (Start: 7 @44089 has 1 MA's), (9, 44107), (10, 44113), (11, 44137), (12, 44155), (13, 44176), (17, 44203), (19, 44245), (20, 44275), (22, 44302), (26, 44362), (33, 44644), (35, 44719), (37, 44782), (39, 44815), (41, 44878),

Gene: LunaStella_45 Start: 34115, Stop: 34981, Start Num: 5
Candidate Starts for LunaStella_45:
(Start: 5 @34115 has 10 MA's), (8, 34199), (9, 34211), (10, 34217), (11, 34241), (12, 34259), (16, 34304), (17, 34307), (18, 34343), (21, 34385), (23, 34439), (25, 34448), (26, 34454), (27, 34475), (28, 34535), (29, 34553), (32, 34694), (33, 34736), (35, 34811), (37, 34874), (39, 34907),

Gene: Mao1_50 Start: 43092, Stop: 43892, Start Num: 7
Candidate Starts for Mao1_50:
(2, 43029), (3, 43035), (Start: 7 @43092 has 1 MA's), (9, 43110), (10, 43116), (11, 43140), (12, 43158), (13, 43179), (17, 43206), (19, 43248), (20, 43278), (22, 43305), (26, 43365), (33, 43647), (35, 43722), (37, 43785), (39, 43818), (41, 43881),

Gene: Misha28_44 Start: 33883, Stop: 34743, Start Num: 5
Candidate Starts for Misha28_44:
(1, 33844), (Start: 5 @33883 has 10 MA's), (8, 33967), (9, 33979), (10, 33985), (11, 34009), (13, 34048), (15, 34063), (24, 34213), (26, 34225), (27, 34246), (31, 34429), (34, 34558), (36, 34618), (38, 34666), (40, 34705),

Gene: MooMoo_44 Start: 34391, Stop: 35257, Start Num: 5
Candidate Starts for MooMoo_44:
(Start: 5 @34391 has 10 MA's), (8, 34475), (9, 34487), (10, 34493), (11, 34517), (12, 34535), (16, 34580), (17, 34583), (18, 34619), (21, 34661), (23, 34715), (25, 34724), (26, 34730), (27, 34751), (28, 34811), (29, 34829), (32, 34970), (33, 35012), (35, 35087), (37, 35150), (39, 35183),

Gene: Piper2020_46 Start: 34599, Stop: 35459, Start Num: 5
Candidate Starts for Piper2020_46:
(1, 34560), (Start: 5 @34599 has 10 MA's), (8, 34683), (9, 34695), (10, 34701), (11, 34725), (13, 34764), (15, 34779), (24, 34929), (26, 34941), (27, 34962), (31, 35145), (34, 35274), (36, 35334), (38, 35382), (40, 35421),

Gene: TChen_47 Start: 36066, Stop: 36932, Start Num: 5
Candidate Starts for TChen_47:
(Start: 5 @36066 has 10 MA's), (8, 36150), (9, 36162), (10, 36168), (11, 36192), (12, 36210), (16, 36255), (17, 36258), (18, 36294), (21, 36336), (23, 36390), (25, 36399), (26, 36405), (27, 36426), (28, 36486), (29, 36504), (32, 36645), (33, 36687), (35, 36762), (37, 36825), (39, 36858),

Gene: TootsiePop_44 Start: 33883, Stop: 34743, Start Num: 5
Candidate Starts for TootsiePop_44:
(1, 33844), (Start: 5 @33883 has 10 MA's), (8, 33967), (9, 33979), (10, 33985), (11, 34009), (13, 34048), (15, 34063), (24, 34213), (26, 34225), (27, 34246), (31, 34429), (34, 34558), (36, 34618), (38,

34666), (40, 34705),

Gene: Toron_46 Start: 35382, Stop: 36251, Start Num: 4
Candidate Starts for Toron_46:
(4, 35382), (6, 35412), (8, 35466), (9, 35478), (10, 35484), (11, 35508), (14, 35553), (26, 35724), (28, 35805), (30, 35865), (32, 35964), (33, 36006), (35, 36081), (37, 36144), (39, 36177),