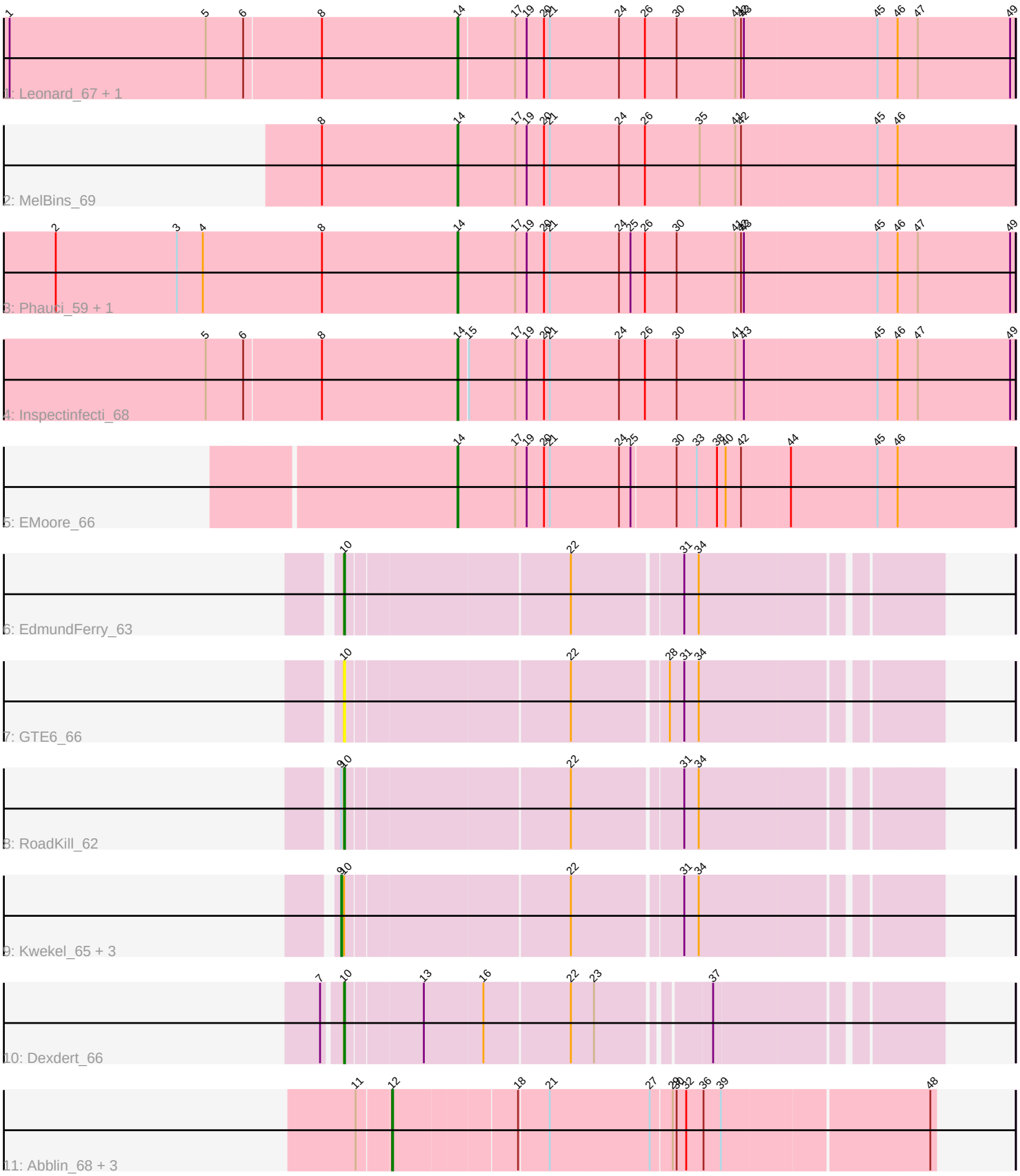
Pham 309373


1: Leonard_67 + 1
2: MelBins_69
3: Phauci_59 + 1
4: Inspectinfecti_68
5: EMoore_66
6: EdmundFerry_63
7: GTE6_66
8: RoadKill_62
9: Kwekel_65 + 3
10: Dexdert_66
11: Abblin_68 + 3

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 309373 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309373 has 19 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Leonard_67, Phinally_67
• Track 2 : MelBins_69
• Track 3 : Phauci_59, Ali17_64
• Track 4 : Inspectinfecti_68
• Track 5 : EMoore_66
• Track 6 : EdmundFerry_63
• Track 7 : GTE6_66
• Track 8 : RoadKill_62
• Track 9 : Kwekel_65, Tiamoceli_64, Chickadee_65, Twonlo_63
• Track 10 : Dexdert_66
• Track 11 : Abblin_68, Sampson_70, Natkenzie_68, Scioto_69

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

The start number called the most often in the published annotations is 14, it was called in 7 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ali17_64, EMoore_66, Inspectinfecti_68, Leonard_67, MelBins_69, Phauci_59, Phinally_67,

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

Genes that do not have the "Most Annotated" start:
• Abblin_68, Chickadee_65, Dexdert_66, EdmundFerry_63, GTE6_66, Kwekel_65, Natkenzie_68, RoadKill_62, Sampson_70, Scioto_69, Tiamoceli_64, Twonlo_63,

Summary by start number:

Start 9:
• Found in 5 of 19 (26.3%) of genes in pham
• Manual Annotations of this start: 4 of 18
• Called 80.0% of time when present

• Phage (with cluster) where this start called: Chickadee_65 (DE3), Kwekel_65 (DE3), Tiamoceli_64 (DE3), Twonlo_63 (DE3),

Start 10:
• Found in 8 of 19 (42.1%) of genes in pham
• Manual Annotations of this start: 3 of 18
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Dexdert_66 (DE3), EdmundFerry_63 (DE3), GTE6_66 (DE3), RoadKill_62 (DE3),

Start 12:
• Found in 4 of 19 (21.1%) of genes in pham
• Manual Annotations of this start: 4 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abblin_68 (DE4), Natkenzie_68 (DE4), Sampson_70 (DE4), Scioto_69 (DE4),

Start 14:
• Found in 7 of 19 (36.8%) of genes in pham
• Manual Annotations of this start: 7 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ali17_64 (DE2), EMoore_66 (DE2), Inspectinfecti_68 (DE2), Leonard_67 (DE2), MelBins_69 (DE2), Phauci_59 (DE2), Phinally_67 (DE2),

Summary by clusters:

There are 3 clusters represented in this pham: DE2, DE3, DE4,

Info for manual annotations of cluster DE2:
•Start number 14 was manually annotated 7 times for cluster DE2.

Info for manual annotations of cluster DE3:
•Start number 9 was manually annotated 4 times for cluster DE3.
•Start number 10 was manually annotated 3 times for cluster DE3.

Info for manual annotations of cluster DE4:
•Start number 12 was manually annotated 4 times for cluster DE4.

Gene Information:

Gene: Abblin_68 Start: 50912, Stop: 51439, Start Num: 12
Candidate Starts for Abblin_68:
(11, 50879), (Start: 12 @50912 has 4 MA's), (18, 51032), (21, 51062), (27, 51161), (29, 51182), (30, 51185), (32, 51194), (36, 51212), (39, 51230), (48, 51434),

Gene: Ali17_64 Start: 49922, Stop: 50497, Start Num: 14
Candidate Starts for Ali17_64:
(2, 49505), (3, 49631), (4, 49658), (8, 49781), (Start: 14 @49922 has 7 MA's), (17, 49982), (19, 49994), (20, 50012), (21, 50018), (24, 50090), (25, 50102), (26, 50117), (30, 50150), (41, 50210), (42, 50216), (43, 50219), (45, 50354), (46, 50375), (47, 50396), (49, 50492),

Gene: Chickadee_65 Start: 46927, Stop: 47499, Start Num: 9
Candidate Starts for Chickadee_65:
(Start: 9 @46927 has 4 MA's), (Start: 10 @46930 has 3 MA's), (22, 47149), (31, 47257), (34, 47272),

Gene: Dexdert_66 Start: 47096, Stop: 47650, Start Num: 10
Candidate Starts for Dexdert_66:
(7, 47078), (Start: 10 @47096 has 3 MA's), (13, 47171), (16, 47231), (22, 47315), (23, 47339), (37, 47441),

Gene: EMoore_66 Start: 51213, Stop: 51785, Start Num: 14
Candidate Starts for EMoore_66:
(Start: 14 @51213 has 7 MA's), (17, 51273), (19, 51285), (20, 51303), (21, 51309), (24, 51381), (25, 51393), (30, 51438), (33, 51459), (38, 51480), (40, 51489), (42, 51504), (44, 51552), (45, 51642), (46, 51663),

Gene: EdmundFerry_63 Start: 46505, Stop: 47074, Start Num: 10
Candidate Starts for EdmundFerry_63:
(Start: 10 @46505 has 3 MA's), (22, 46724), (31, 46832), (34, 46847),

Gene: GTE6_66 Start: 47732, Stop: 48301, Start Num: 10
Candidate Starts for GTE6_66:
(Start: 10 @47732 has 3 MA's), (22, 47951), (28, 48044), (31, 48059), (34, 48074),

Gene: Inspectinfecti_68 Start: 50768, Stop: 51340, Start Num: 14
Candidate Starts for Inspectinfecti_68:
(5, 50510), (6, 50549), (8, 50627), (Start: 14 @50768 has 7 MA's), (15, 50777), (17, 50825), (19, 50837), (20, 50855), (21, 50861), (24, 50933), (26, 50960), (30, 50993), (41, 51053), (43, 51062), (45, 51197), (46, 51218), (47, 51239), (49, 51335),

Gene: Kwekel_65 Start: 46840, Stop: 47412, Start Num: 9
Candidate Starts for Kwekel_65:
(Start: 9 @46840 has 4 MA's), (Start: 10 @46843 has 3 MA's), (22, 47062), (31, 47170), (34, 47185),

Gene: Leonard_67 Start: 50831, Stop: 51403, Start Num: 14
Candidate Starts for Leonard_67:
(1, 50369), (5, 50573), (6, 50612), (8, 50690), (Start: 14 @50831 has 7 MA's), (17, 50888), (19, 50900), (20, 50918), (21, 50924), (24, 50996), (26, 51023), (30, 51056), (41, 51116), (42, 51122), (43, 51125), (45, 51260), (46, 51281), (47, 51302), (49, 51398),

Gene: MelBins_69 Start: 51034, Stop: 51609, Start Num: 14
Candidate Starts for MelBins_69:
(8, 50893), (Start: 14 @51034 has 7 MA's), (17, 51094), (19, 51106), (20, 51124), (21, 51130), (24, 51202), (26, 51229), (35, 51286), (41, 51322), (42, 51328), (45, 51466), (46, 51487),

Gene: Natkenzie_68 Start: 50912, Stop: 51439, Start Num: 12
Candidate Starts for Natkenzie_68:
(11, 50879), (Start: 12 @50912 has 4 MA's), (18, 51032), (21, 51062), (27, 51161), (29, 51182), (30, 51185), (32, 51194), (36, 51212), (39, 51230), (48, 51434),

Gene: Phauci_59 Start: 47686, Stop: 48261, Start Num: 14
Candidate Starts for Phauci_59:

(2, 47269), (3, 47395), (4, 47422), (8, 47545), (Start: 14 @47686 has 7 MA's), (17, 47746), (19, 47758), (20, 47776), (21, 47782), (24, 47854), (25, 47866), (26, 47881), (30, 47914), (41, 47974), (42, 47980), (43, 47983), (45, 48118), (46, 48139), (47, 48160), (49, 48256),

Gene: Phinally_67 Start: 50828, Stop: 51400, Start Num: 14
Candidate Starts for Phinally_67:
(1, 50366), (5, 50570), (6, 50609), (8, 50687), (Start: 14 @50828 has 7 MA's), (17, 50885), (19, 50897), (20, 50915), (21, 50921), (24, 50993), (26, 51020), (30, 51053), (41, 51113), (42, 51119), (43, 51122), (45, 51257), (46, 51278), (47, 51299), (49, 51395),

Gene: RoadKill_62 Start: 46375, Stop: 46944, Start Num: 10
Candidate Starts for RoadKill_62:
(Start: 9 @46372 has 4 MA's), (Start: 10 @46375 has 3 MA's), (22, 46594), (31, 46702), (34, 46717),

Gene: Sampson_70 Start: 51063, Stop: 51590, Start Num: 12
Candidate Starts for Sampson_70:
(11, 51030), (Start: 12 @51063 has 4 MA's), (18, 51183), (21, 51213), (27, 51312), (29, 51333), (30, 51336), (32, 51345), (36, 51363), (39, 51381), (48, 51585),

Gene: Scioto_69 Start: 50913, Stop: 51440, Start Num: 12
Candidate Starts for Scioto_69:
(11, 50880), (Start: 12 @50913 has 4 MA's), (18, 51033), (21, 51063), (27, 51162), (29, 51183), (30, 51186), (32, 51195), (36, 51213), (39, 51231), (48, 51435),

Gene: Tiamoceli_64 Start: 47807, Stop: 48379, Start Num: 9
Candidate Starts for Tiamoceli_64:
(Start: 9 @47807 has 4 MA's), (Start: 10 @47810 has 3 MA's), (22, 48029), (31, 48137), (34, 48152),

Gene: Twonlo_63 Start: 46905, Stop: 47477, Start Num: 9
Candidate Starts for Twonlo_63:
(Start: 9 @46905 has 4 MA's), (Start: 10 @46908 has 3 MA's), (22, 47127), (31, 47235), (34, 47250),