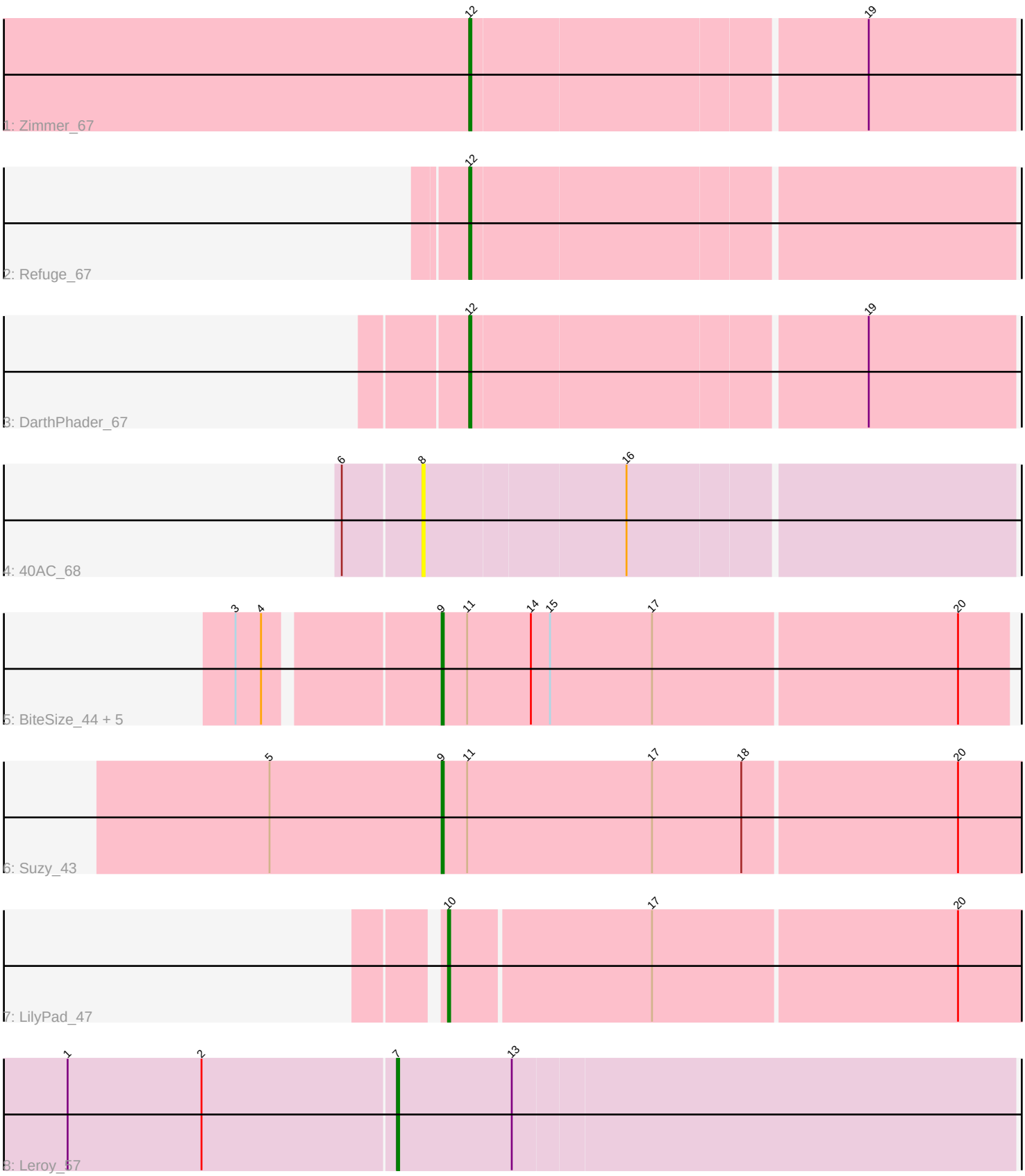
Pham 213114


12
19
1: Zimmer_67
12
2: Refuge_67
12
19
3: DarthPhader_67
6
8
16
4: 40AC_68
3
4
9
11
14
15
17
20
5: BiteSize_44 + 5
5
9
11
17
18
20
6: Suzy_43
10
17
20
7: LilyPad_47
1
2
7
13
8: Leroy_67

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 213114 Report

This analysis was run 02/22/25 on database version 588.

Pham number 213114 has 13 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Zimmer_67
• Track 2 : Refuge_67
• Track 3 : DarthPhader_67
• Track 4 : 40AC_68
• Track 5 : BiteSize_44, Sienna_44, Beyoncage_44, Djokovic_44, Madi_44, Terapin_45
• Track 6 : Suzy_43
• Track 7 : LilyPad_47
• Track 8 : Leroy_57

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

The start number called the most often in the published annotations is 9, it was called in 7 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beyoncage_44, BiteSize_44, Djokovic_44, Madi_44, Sienna_44, Suzy_43, Terapin_45,

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

Genes that do not have the "Most Annotated" start:
• 40AC_68, DarthPhader_67, Leroy_57, LilyPad_47, Refuge_67, Zimmer_67,

Summary by start number:

Start 7:
• Found in 1 of 13 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Leroy_57 (DN1),

Start 8:

• 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: 40AC_68 (A17),

Start 9:
• Found in 7 of 13 (53.8%) of genes in pham
• Manual Annotations of this start: 7 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beyoncage_44 (DG1), BiteSize_44 (DG1), Djokovic_44 (DG1), Madi_44 (DG1), Sienna_44 (DG1), Suzy_43 (DG1), Terapin_45 (DG1),

Start 10:
• Found in 1 of 13 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilyPad_47 (DG1),

Start 12:
• Found in 3 of 13 (23.1%) of genes in pham
• Manual Annotations of this start: 3 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DarthPhader_67 (A12), Refuge_67 (A12), Zimmer_67 (A12),

Summary by clusters:

There are 4 clusters represented in this pham: A17, DG1, DN1, A12,

Info for manual annotations of cluster A12:
•Start number 12 was manually annotated 3 times for cluster A12.

Info for manual annotations of cluster DG1:
•Start number 9 was manually annotated 7 times for cluster DG1.
•Start number 10 was manually annotated 1 time for cluster DG1.

Info for manual annotations of cluster DN1:
•Start number 7 was manually annotated 1 time for cluster DN1.

Gene Information:

Gene: 40AC_68 Start: 43390, Stop: 43121, Start Num: 8
Candidate Starts for 40AC_68:
(6, 43426), (8, 43390), (16, 43297),

Gene: Beyoncage_44 Start: 34762, Stop: 35025, Start Num: 9
Candidate Starts for Beyoncage_44:
(3, 34675), (4, 34687), (Start: 9 @34762 has 7 MA's), (11, 34774), (14, 34804), (15, 34813), (17, 34861), (20, 35002),

Gene: BiteSize_44 Start: 34848, Stop: 35111, Start Num: 9
Candidate Starts for BiteSize_44:
(3, 34761), (4, 34773), (Start: 9 @34848 has 7 MA's), (11, 34860), (14, 34890), (15, 34899), (17, 34947), (20, 35088),

Gene: DarthPhader_67 Start: 43330, Stop: 43082, Start Num: 12
Candidate Starts for DarthPhader_67:
(Start: 12 @43330 has 3 MA's), (19, 43150),

Gene: Djokovic_44 Start: 34761, Stop: 35024, Start Num: 9
Candidate Starts for Djokovic_44:
(3, 34674), (4, 34686), (Start: 9 @34761 has 7 MA's), (11, 34773), (14, 34803), (15, 34812), (17, 34860), (20, 35001),

Gene: Leroy_57 Start: 36702, Stop: 36989, Start Num: 7
Candidate Starts for Leroy_57:
(1, 36549), (2, 36612), (Start: 7 @36702 has 1 MA's), (13, 36756),

Gene: LilyPad_47 Start: 36134, Stop: 36400, Start Num: 10
Candidate Starts for LilyPad_47:
(Start: 10 @36134 has 1 MA's), (17, 36227), (20, 36368),

Gene: Madi_44 Start: 34839, Stop: 35102, Start Num: 9
Candidate Starts for Madi_44:
(3, 34752), (4, 34764), (Start: 9 @34839 has 7 MA's), (11, 34851), (14, 34881), (15, 34890), (17, 34938), (20, 35079),

Gene: Refuge_67 Start: 43380, Stop: 43132, Start Num: 12
Candidate Starts for Refuge_67:
(Start: 12 @43380 has 3 MA's),

Gene: Sienna_44 Start: 34839, Stop: 35102, Start Num: 9
Candidate Starts for Sienna_44:
(3, 34752), (4, 34764), (Start: 9 @34839 has 7 MA's), (11, 34851), (14, 34881), (15, 34890), (17, 34938), (20, 35079),

Gene: Suzy_43 Start: 35166, Stop: 35441, Start Num: 9
Candidate Starts for Suzy_43:
(5, 35085), (Start: 9 @35166 has 7 MA's), (11, 35178), (17, 35265), (18, 35307), (20, 35406),

Gene: Terapin_45 Start: 34763, Stop: 35026, Start Num: 9
Candidate Starts for Terapin_45:
(3, 34676), (4, 34688), (Start: 9 @34763 has 7 MA's), (11, 34775), (14, 34805), (15, 34814), (17, 34862), (20, 35003),

Gene: Zimmer_67 Start: 43096, Stop: 42848, Start Num: 12
Candidate Starts for Zimmer_67:
(Start: 12 @43096 has 3 MA's), (19, 42916),