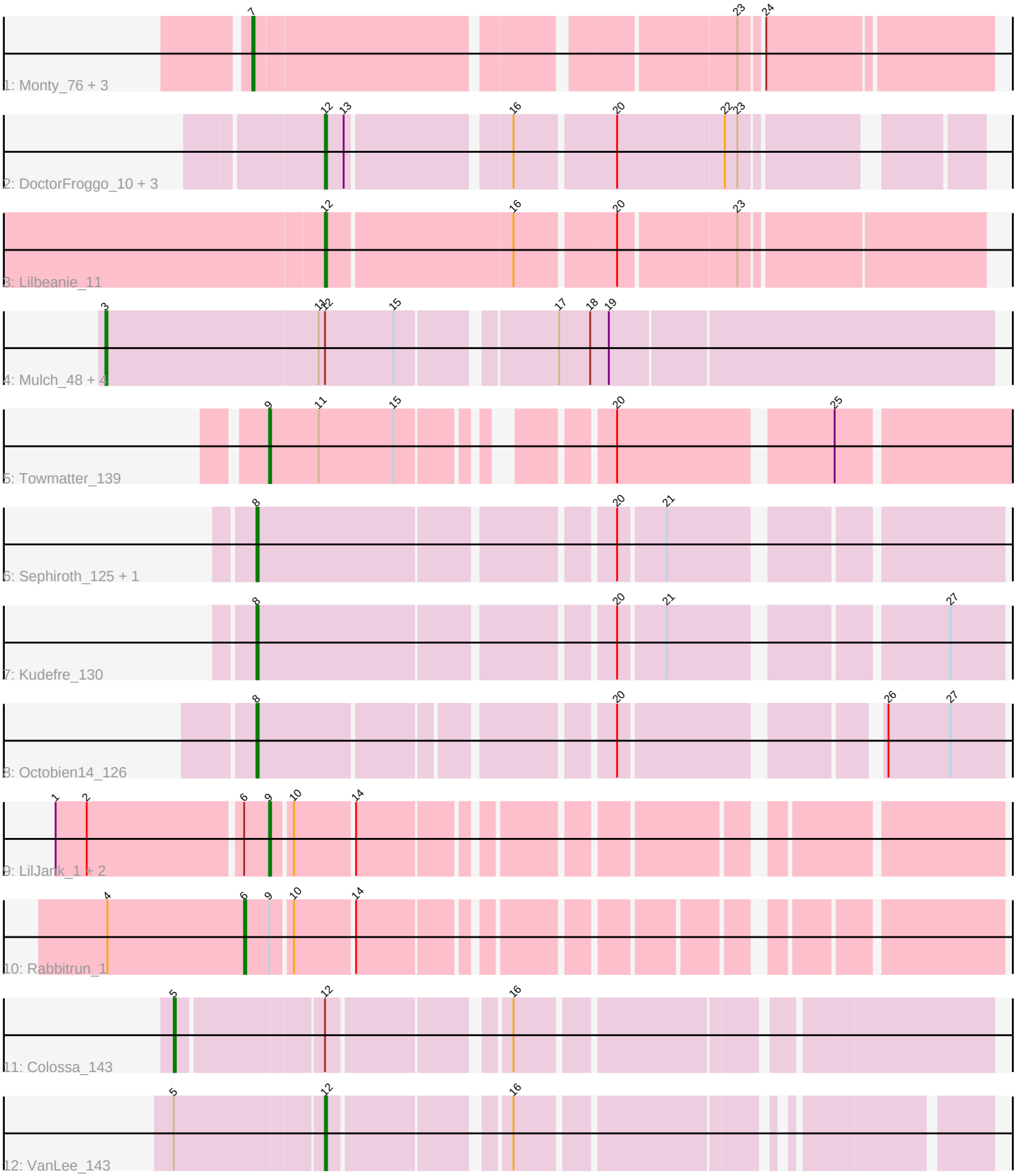
Pham 311960


1: Monty_76 + 3
2: DoctorFroggo_10 + 3
3: Lilbeanie_11
4: Mulch_48 + 4
5: Towmatter_139
6: Sephiroth_125 + 1
7: Kudefre_130
8: Octobien14_126
9: LilJank_1 + 2
10: Rabbitrun_1
11: Colossa_143
12: VanLee_143

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 311960 Report

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

Pham number 311960 has 25 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Monty_76, CathyBurgh_77, Flakey_76, Lizzo_77
• Track 2 : DoctorFroggo_10, Zipp_10, Delrey21_10, Verity_10
• Track 3 : Lilbeanie_11
• Track 4 : Mulch_48, Pimento_49, BetterKatz_48, Brylie_48, Bock_48
• Track 5 : Towmatter_139
• Track 6 : Sephiroth_125, Syleon_130
• Track 7 : Kudefre_130
• Track 8 : Octobien14_126
• Track 9 : LilJank_1, Neville_1, Trax_1
• Track 10 : Rabbitrun_1
• Track 11 : Colossa_143
• Track 12 : VanLee_143

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

The start number called the most often in the published annotations is 12, it was called in 6 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Delrey21_10, DoctorFroggo_10, Lilbeanie_11, VanLee_143, Verity_10, Zipp_10,

Genes that have the "Most Annotated" start but do not call it:
• BetterKatz_48, Bock_48, Brylie_48, Colossa_143, Mulch_48, Pimento_49,

Genes that do not have the "Most Annotated" start:
• CathyBurgh_77, Flakey_76, Kudefre_130, LilJank_1, Lizzo_77, Monty_76, Neville_1, Octobien14_126, Rabbitrun_1, Sephiroth_125, Syleon_130, Towmatter_139, Trax_1,

Summary by start number:

Start 3:
• Found in 5 of 25 (20.0%) of genes in pham
• Manual Annotations of this start: 5 of 24

• Called 100.0% of time when present
• Phage (with cluster) where this start called: BetterKatz_48 (DI), Bock_48 (DI), Brylie_48 (DI), Mulch_48 (DI), Pimento_49 (DI),

Start 5:
• Found in 2 of 25 (8.0%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Colossa_143 (KA),

Start 6:
• Found in 4 of 25 (16.0%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Rabbitrun_1 (DU2),

Start 7:
• Found in 4 of 25 (16.0%) of genes in pham
• Manual Annotations of this start: 4 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CathyBurgh_77 (CS2), Flakey_76 (CS2), Lizzo_77 (CS2), Monty_76 (CS2),

Start 8:
• Found in 4 of 25 (16.0%) of genes in pham
• Manual Annotations of this start: 4 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kudefre_130 (DU1), Octobien14_126 (DU1), Sephiroth_125 (DU1), Syleon_130 (DU1),

Start 9:
• Found in 5 of 25 (20.0%) of genes in pham
• Manual Annotations of this start: 3 of 24
• Called 80.0% of time when present
• Phage (with cluster) where this start called: LilJank_1 (DU2), Neville_1 (DU2), Towmatter_139 (DL), Trax_1 (DU2),

Start 12:
• Found in 12 of 25 (48.0%) of genes in pham
• Manual Annotations of this start: 6 of 24
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Delrey21_10 (DE4), DoctorFroggo_10 (DE4), Lilbeanie_11 (DE5), VanLee_143 (KA), Verity_10 (DE4), Zipp_10 (DE4),

Summary by clusters:

There are 8 clusters represented in this pham: KA, DI, DE4, DE5, DU1, DU2, DL, CS2,

Info for manual annotations of cluster CS2:
•Start number 7 was manually annotated 4 times for cluster CS2.

Info for manual annotations of cluster DE4:

•Start number 12 was manually annotated 4 times for cluster DE4.

Info for manual annotations of cluster DE5:
•Start number 12 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DI:
•Start number 3 was manually annotated 5 times for cluster DI.

Info for manual annotations of cluster DL:
•Start number 9 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DU1:
•Start number 8 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:
•Start number 6 was manually annotated 1 time for cluster DU2.
•Start number 9 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster KA:
•Start number 5 was manually annotated 1 time for cluster KA.
•Start number 12 was manually annotated 1 time for cluster KA.

Gene Information:

Gene: BetterKatz_48 Start: 35022, Stop: 35471, Start Num: 3
Candidate Starts for BetterKatz_48:
(Start: 3 @35022 has 5 MA's), (11, 35124), (Start: 12 @35127 has 6 MA's), (15, 35160), (17, 35229), (18, 35244), (19, 35253),

Gene: Bock_48 Start: 34771, Stop: 35208, Start Num: 3
Candidate Starts for Bock_48:
(Start: 3 @34771 has 5 MA's), (11, 34873), (Start: 12 @34876 has 6 MA's), (15, 34909), (17, 34978), (18, 34993), (19, 35002),

Gene: Brylie_48 Start: 34818, Stop: 35255, Start Num: 3
Candidate Starts for Brylie_48:
(Start: 3 @34818 has 5 MA's), (11, 34920), (Start: 12 @34923 has 6 MA's), (15, 34956), (17, 35025), (18, 35040), (19, 35049),

Gene: CathyBurgh_77 Start: 60701, Stop: 60336, Start Num: 7
Candidate Starts for CathyBurgh_77:
(Start: 7 @60701 has 4 MA's), (23, 60488), (24, 60479),

Gene: Colossa_143 Start: 76130, Stop: 75759, Start Num: 5
Candidate Starts for Colossa_143:
(Start: 5 @76130 has 1 MA's), (Start: 12 @76064 has 6 MA's), (16, 75989),

Gene: Delrey21_10 Start: 5803, Stop: 6096, Start Num: 12
Candidate Starts for Delrey21_10:
(Start: 12 @5803 has 6 MA's), (13, 5812), (16, 5884), (20, 5929), (22, 5980), (23, 5986),

Gene: DoctorFroggo_10 Start: 5803, Stop: 6096, Start Num: 12
Candidate Starts for DoctorFroggo_10:
(Start: 12 @5803 has 6 MA's), (13, 5812), (16, 5884), (20, 5929), (22, 5980), (23, 5986),

Gene: Flakey_76 Start: 60687, Stop: 60322, Start Num: 7
Candidate Starts for Flakey_76:
(Start: 7 @60687 has 4 MA's), (23, 60474), (24, 60465),

Gene: Kudefre_130 Start: 70230, Stop: 69889, Start Num: 8
Candidate Starts for Kudefre_130:
(Start: 8 @70230 has 4 MA's), (20, 70071), (21, 70050), (27, 69930),

Gene: LilJank_1 Start: 535, Stop: 197, Start Num: 9
Candidate Starts for LilJank_1:
(1, 634), (2, 619), (Start: 6 @547 has 1 MA's), (Start: 9 @535 has 3 MA's), (10, 526), (14, 499),

Gene: Lilbeanie_11 Start: 4525, Stop: 4851, Start Num: 12
Candidate Starts for Lilbeanie_11:
(Start: 12 @4525 has 6 MA's), (16, 4612), (20, 4657), (23, 4711),

Gene: Lizzo_77 Start: 60701, Stop: 60336, Start Num: 7
Candidate Starts for Lizzo_77:
(Start: 7 @60701 has 4 MA's), (23, 60488), (24, 60479),

Gene: Monty_76 Start: 59914, Stop: 59549, Start Num: 7
Candidate Starts for Monty_76:
(Start: 7 @59914 has 4 MA's), (23, 59701), (24, 59692),

Gene: Mulch_48 Start: 34818, Stop: 35255, Start Num: 3
Candidate Starts for Mulch_48:
(Start: 3 @34818 has 5 MA's), (11, 34920), (Start: 12 @34923 has 6 MA's), (15, 34956), (17, 35025), (18, 35040), (19, 35049),

Gene: Neville_1 Start: 485, Stop: 147, Start Num: 9
Candidate Starts for Neville_1:
(1, 584), (2, 569), (Start: 6 @497 has 1 MA's), (Start: 9 @485 has 3 MA's), (10, 476), (14, 449),

Gene: Octobien14_126 Start: 68767, Stop: 68426, Start Num: 8
Candidate Starts for Octobien14_126:
(Start: 8 @68767 has 4 MA's), (20, 68614), (26, 68506), (27, 68476),

Gene: Pimento_49 Start: 34409, Stop: 34852, Start Num: 3
Candidate Starts for Pimento_49:
(Start: 3 @34409 has 5 MA's), (11, 34511), (Start: 12 @34514 has 6 MA's), (15, 34547), (17, 34616), (18, 34631), (19, 34640),

Gene: Rabbitrun_1 Start: 477, Stop: 136, Start Num: 6
Candidate Starts for Rabbitrun_1:
(4, 543), (Start: 6 @477 has 1 MA's), (Start: 9 @465 has 3 MA's), (10, 456), (14, 429),

Gene: Sephiroth_125 Start: 70000, Stop: 69659, Start Num: 8
Candidate Starts for Sephiroth_125:
(Start: 8 @70000 has 4 MA's), (20, 69841), (21, 69820),

Gene: Syleon_130 Start: 70751, Stop: 70410, Start Num: 8
Candidate Starts for Syleon_130:
(Start: 8 @70751 has 4 MA's), (20, 70592), (21, 70571),

Gene: Towmatter_139 Start: 81023, Stop: 80664, Start Num: 9
Candidate Starts for Towmatter_139:
(Start: 9 @81023 has 3 MA's), (11, 80999), (15, 80963), (20, 80885), (25, 80789),

Gene: Trax_1 Start: 485, Stop: 147, Start Num: 9
Candidate Starts for Trax_1:
(1, 584), (2, 569), (Start: 6 @497 has 1 MA's), (Start: 9 @485 has 3 MA's), (10, 476), (14, 449),

Gene: VanLee_143 Start: 75581, Stop: 75288, Start Num: 12
Candidate Starts for VanLee_143:
(Start: 5 @75650 has 1 MA's), (Start: 12 @75581 has 6 MA's), (16, 75506),

Gene: Verity_10 Start: 5803, Stop: 6096, Start Num: 12
Candidate Starts for Verity_10:
(Start: 12 @5803 has 6 MA's), (13, 5812), (16, 5884), (20, 5929), (22, 5980), (23, 5986),

Gene: Zipp_10 Start: 5948, Stop: 6241, Start Num: 12
Candidate Starts for Zipp_10:
(Start: 12 @5948 has 6 MA's), (13, 5957), (16, 6029), (20, 6074), (22, 6125), (23, 6131),