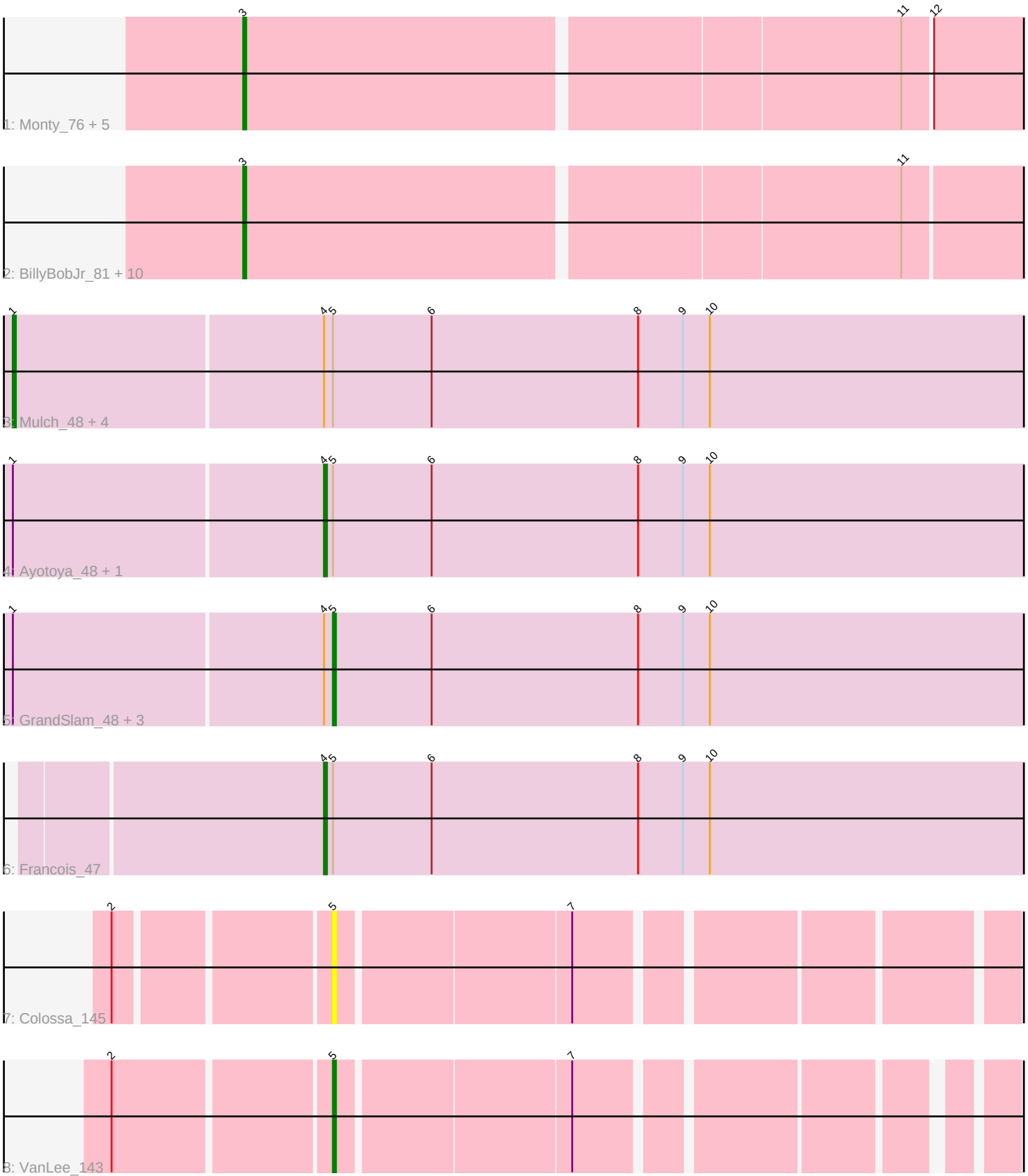
Pham 294968


3
11
12
1: Monty_76 + 5
3
11
2: BillyBobJr_81 + 10
1
4
5
6
8
9
10
3: Mulch_48 + 4
1
4
5
6
8
9
10
4: Ayotoya_48 + 1
1
4
5
6
8
9
10
5: GrandSlam_48 + 3
4
5
6
8
9
10
6: Francois_47
2
5
7
7: Colossa_145
2
5
7
8: 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 294968 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294968 has 31 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Monty_76, Flakey_76, Breezic_77, CathyBurgh_77, John316_80, Lizzo_77
• Track 2 : BillyBobJr_81, Poland_81, Exiguo_76, RemRem_78, Sam12_76, Jellybones_78, CinnamonToast_81, Sombrero_78, FelixAlejandro_81, Msay19_81, Worcestershire_76
• Track 3 : Mulch_48, Pimento_49, BetterKatz_48, Brylie_48, Bock_48
• Track 4 : Ayotoya_48, Nadeem_48
• Track 5 : GrandSlam_48, Parada_48, Chop_48, Hamood_48
• Track 6 : Francois_47
• Track 7 : Colossa_145
• Track 8 : 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 3, it was called in 14 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BillyBobJr_81, Breezic_77, CathyBurgh_77, CinnamonToast_81, Exiguo_76, FelixAlejandro_81, Flakey_76, Jellybones_78, John316_80, Lizzo_77, Monty_76, Msay19_81, Poland_81, RemRem_78, Sam12_76, Sombrero_78, Worcestershire_76,

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

Genes that do not have the "Most Annotated" start:
• Ayotoya_48, BetterKatz_48, Bock_48, Brylie_48, Chop_48, Colossa_145, Francois_47, GrandSlam_48, Hamood_48, Mulch_48, Nadeem_48, Parada_48, Pimento_49, VanLee_143,

Summary by start number:

Start 1:
• Found in 11 of 31 (35.5%) of genes in pham

• Manual Annotations of this start: 5 of 27
• Called 45.5% 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 3:
• Found in 17 of 31 (54.8%) of genes in pham
• Manual Annotations of this start: 14 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BillyBobJr_81 (CS2), Breezic_77 (CS2), CathyBurgh_77 (CS2), CinnamonToast_81 (CS2), Exiguo_76 (CS2), FelixAlejandro_81 (CS2), Flakey_76 (CS2), Jellybones_78 (CS2), John316_80 (CS2), Lizzo_77 (CS2), Monty_76 (CS2), Msay19_81 (CS2), Poland_81 (CS2), RemRem_78 (CS2), Sam12_76 (CS2), Sombrero_78 (CS2), Worcestershire_76 (CS2),

Start 4:
• Found in 12 of 31 (38.7%) of genes in pham
• Manual Annotations of this start: 3 of 27
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Ayotoya_48 (DI), Francois_47 (DI), Nadeem_48 (DI),

Start 5:
• Found in 14 of 31 (45.2%) of genes in pham
• Manual Annotations of this start: 5 of 27
• Called 42.9% of time when present
• Phage (with cluster) where this start called: Chop_48 (DI), Colossa_145 (KA), GrandSlam_48 (DI), Hamood_48 (DI), Parada_48 (DI), VanLee_143 (KA),

Summary by clusters:

There are 3 clusters represented in this pham: KA, DI, CS2,

Info for manual annotations of cluster CS2:
•Start number 3 was manually annotated 14 times for cluster CS2.

Info for manual annotations of cluster DI:
•Start number 1 was manually annotated 5 times for cluster DI.
•Start number 4 was manually annotated 3 times for cluster DI.
•Start number 5 was manually annotated 4 times for cluster DI.

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

Gene Information:

Gene: Ayotoya_48 Start: 35650, Stop: 35985, Start Num: 4
Candidate Starts for Ayotoya_48:
(Start: 1 @35548 has 5 MA's), (Start: 4 @35650 has 3 MA's), (Start: 5 @35653 has 5 MA's), (6, 35686), (8, 35755), (9, 35770), (10, 35779),

Gene: BetterKatz_48 Start: 35022, Stop: 35471, Start Num: 1
Candidate Starts for BetterKatz_48:
(Start: 1 @35022 has 5 MA's), (Start: 4 @35124 has 3 MA's), (Start: 5 @35127 has 5 MA's), (6, 35160), (8, 35229), (9, 35244), (10, 35253),

Gene: BillyBobJr_81 Start: 62041, Stop: 61709, Start Num: 3
Candidate Starts for BillyBobJr_81:
(Start: 3 @62041 has 14 MA's), (11, 61828),

Gene: Bock_48 Start: 34771, Stop: 35208, Start Num: 1
Candidate Starts for Bock_48:
(Start: 1 @34771 has 5 MA's), (Start: 4 @34873 has 3 MA's), (Start: 5 @34876 has 5 MA's), (6, 34909), (8, 34978), (9, 34993), (10, 35002),

Gene: Breezic_77 Start: 60181, Stop: 59828, Start Num: 3
Candidate Starts for Breezic_77:
(Start: 3 @60181 has 14 MA's), (11, 59968), (12, 59959),

Gene: Brylie_48 Start: 34818, Stop: 35255, Start Num: 1
Candidate Starts for Brylie_48:
(Start: 1 @34818 has 5 MA's), (Start: 4 @34920 has 3 MA's), (Start: 5 @34923 has 5 MA's), (6, 34956), (8, 35025), (9, 35040), (10, 35049),

Gene: CathyBurgh_77 Start: 60701, Stop: 60336, Start Num: 3
Candidate Starts for CathyBurgh_77:
(Start: 3 @60701 has 14 MA's), (11, 60488), (12, 60479),

Gene: Chop_48 Start: 35400, Stop: 35738, Start Num: 5
Candidate Starts for Chop_48:
(Start: 1 @35295 has 5 MA's), (Start: 4 @35397 has 3 MA's), (Start: 5 @35400 has 5 MA's), (6, 35433), (8, 35502), (9, 35517), (10, 35526),

Gene: CinnamonToast_81 Start: 62041, Stop: 61709, Start Num: 3
Candidate Starts for CinnamonToast_81:
(Start: 3 @62041 has 14 MA's), (11, 61828),

Gene: Colossa_145 Start: 76064, Stop: 75759, Start Num: 5
Candidate Starts for Colossa_145:
(2, 76130), (Start: 5 @76064 has 5 MA's), (7, 75989),

Gene: Exiguo_76 Start: 59877, Stop: 59545, Start Num: 3
Candidate Starts for Exiguo_76:
(Start: 3 @59877 has 14 MA's), (11, 59664),

Gene: FelixAlejandro_81 Start: 62391, Stop: 62059, Start Num: 3
Candidate Starts for FelixAlejandro_81:
(Start: 3 @62391 has 14 MA's), (11, 62178),

Gene: Flakey_76 Start: 60687, Stop: 60322, Start Num: 3
Candidate Starts for Flakey_76:
(Start: 3 @60687 has 14 MA's), (11, 60474), (12, 60465),

Gene: Francois_47 Start: 34916, Stop: 35251, Start Num: 4

Candidate Starts for Francois_47:
(Start: 4 @34916 has 3 MA's), (Start: 5 @34919 has 5 MA's), (6, 34952), (8, 35021), (9, 35036), (10, 35045),

Gene: GrandSlam_48 Start: 35400, Stop: 35738, Start Num: 5
Candidate Starts for GrandSlam_48:
(Start: 1 @35295 has 5 MA's), (Start: 4 @35397 has 3 MA's), (Start: 5 @35400 has 5 MA's), (6, 35433), (8, 35502), (9, 35517), (10, 35526),

Gene: Hamood_48 Start: 35400, Stop: 35738, Start Num: 5
Candidate Starts for Hamood_48:
(Start: 1 @35295 has 5 MA's), (Start: 4 @35397 has 3 MA's), (Start: 5 @35400 has 5 MA's), (6, 35433), (8, 35502), (9, 35517), (10, 35526),

Gene: Jellybones_78 Start: 61675, Stop: 61343, Start Num: 3
Candidate Starts for Jellybones_78:
(Start: 3 @61675 has 14 MA's), (11, 61462),

Gene: John316_80 Start: 61839, Stop: 61486, Start Num: 3
Candidate Starts for John316_80:
(Start: 3 @61839 has 14 MA's), (11, 61626), (12, 61617),

Gene: Lizzo_77 Start: 60701, Stop: 60336, Start Num: 3
Candidate Starts for Lizzo_77:
(Start: 3 @60701 has 14 MA's), (11, 60488), (12, 60479),

Gene: Monty_76 Start: 59914, Stop: 59549, Start Num: 3
Candidate Starts for Monty_76:
(Start: 3 @59914 has 14 MA's), (11, 59701), (12, 59692),

Gene: Msay19_81 Start: 62277, Stop: 61945, Start Num: 3
Candidate Starts for Msay19_81:
(Start: 3 @62277 has 14 MA's), (11, 62064),

Gene: Mulch_48 Start: 34818, Stop: 35255, Start Num: 1
Candidate Starts for Mulch_48:
(Start: 1 @34818 has 5 MA's), (Start: 4 @34920 has 3 MA's), (Start: 5 @34923 has 5 MA's), (6, 34956), (8, 35025), (9, 35040), (10, 35049),

Gene: Nadeem_48 Start: 34920, Stop: 35255, Start Num: 4
Candidate Starts for Nadeem_48:
(Start: 1 @34818 has 5 MA's), (Start: 4 @34920 has 3 MA's), (Start: 5 @34923 has 5 MA's), (6, 34956), (8, 35025), (9, 35040), (10, 35049),

Gene: Parada_48 Start: 34923, Stop: 35255, Start Num: 5
Candidate Starts for Parada_48:
(Start: 1 @34818 has 5 MA's), (Start: 4 @34920 has 3 MA's), (Start: 5 @34923 has 5 MA's), (6, 34956), (8, 35025), (9, 35040), (10, 35049),

Gene: Pimento_49 Start: 34409, Stop: 34852, Start Num: 1
Candidate Starts for Pimento_49:
(Start: 1 @34409 has 5 MA's), (Start: 4 @34511 has 3 MA's), (Start: 5 @34514 has 5 MA's), (6, 34547), (8, 34616), (9, 34631), (10, 34640),

Gene: Poland_81 Start: 62256, Stop: 61924, Start Num: 3
Candidate Starts for Poland_81:
(Start: 3 @62256 has 14 MA's), (11, 62043),

Gene: RemRem_78 Start: 59853, Stop: 59521, Start Num: 3
Candidate Starts for RemRem_78:
(Start: 3 @59853 has 14 MA's), (11, 59640),

Gene: Sam12_76 Start: 59877, Stop: 59545, Start Num: 3
Candidate Starts for Sam12_76:
(Start: 3 @59877 has 14 MA's), (11, 59664),

Gene: Sombrero_78 Start: 60468, Stop: 60136, Start Num: 3
Candidate Starts for Sombrero_78:
(Start: 3 @60468 has 14 MA's), (11, 60255),

Gene: VanLee_143 Start: 75581, Stop: 75288, Start Num: 5
Candidate Starts for VanLee_143:
(2, 75650), (Start: 5 @75581 has 5 MA's), (7, 75506),

Gene: Worcestershire_76 Start: 59861, Stop: 59529, Start Num: 3
Candidate Starts for Worcestershire_76:
(Start: 3 @59861 has 14 MA's), (11, 59648),