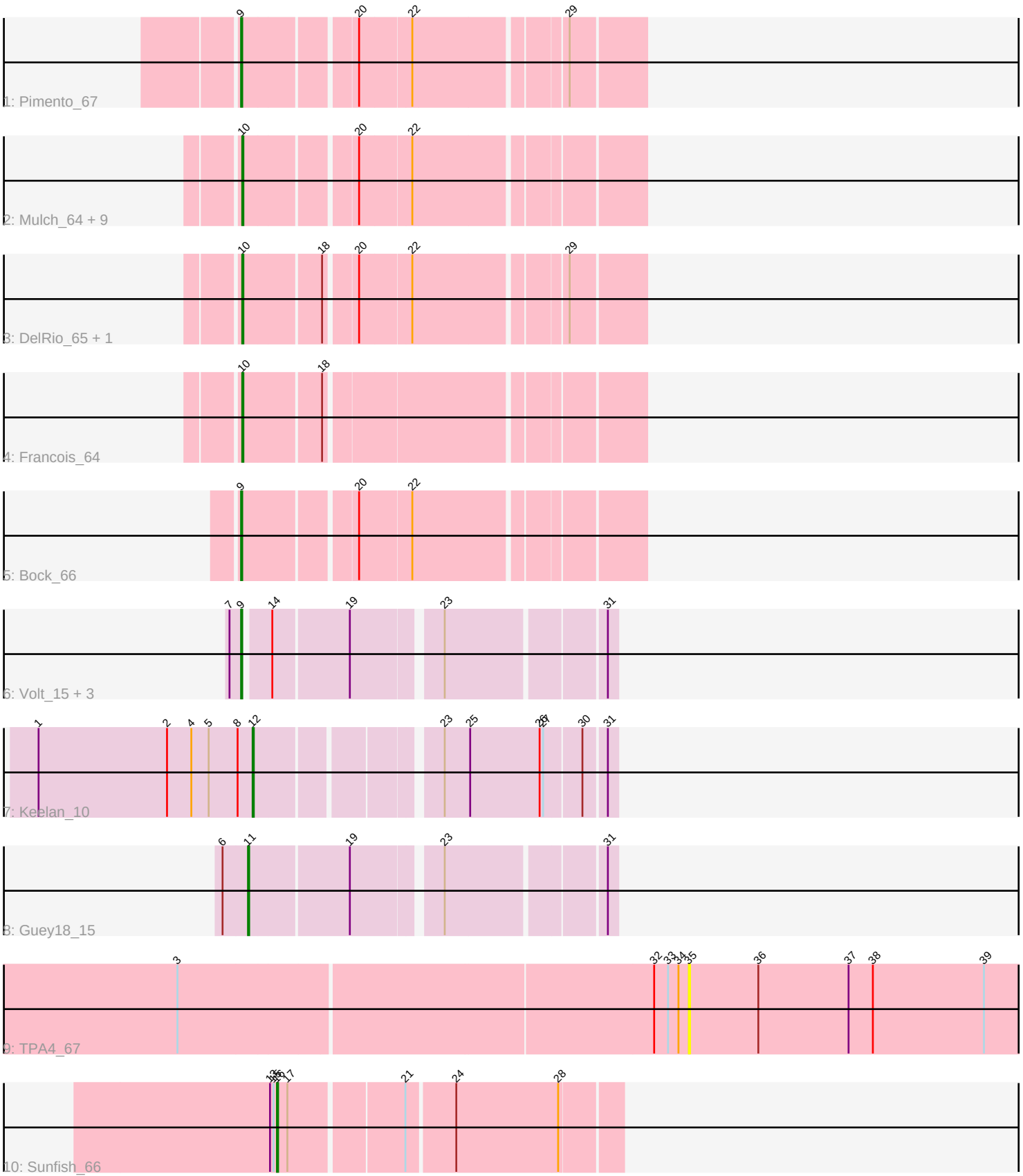
Pham 309220


9
20
22
29
1: Pimento_67
10
20
22
2: Mulch_64 + 9
10
18
20
22
29
3: DelRio_65 + 1
10
18
4: Francois_64
9
20
22
5: Bock_66
7
9
14
19
23
31
6: Volt_15 + 3
1
2
4
5
8
12
23
25
30
31
7: Keelan_10
6
11
19
23
31
8: Guey18_15
3
32
33
34
35
36
37
38
39
9: TPA4_67
21
24
28
10: Sunfish_66

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 309220 Report

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

Pham number 309220 has 23 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Pimento_67
• Track 2 : Mulch_64, Ayotoya_65, BetterKatz_64, Nadeem_64, Brylie_64, Chop_66, WheatThin_63, GrandSlam_66, Parada_64, Hamood_66
• Track 3 : DelRio_65, NancyRae_63
• Track 4 : Francois_64
• Track 5 : Bock_66
• Track 6 : Volt_15, Ronaldo_15, Ziko_16, Fryberger_12
• Track 7 : Keelan_10
• Track 8 : Guey18_15
• Track 9 : TPA4_67
• Track 10 : Sunfish_66

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

The start number called the most often in the published annotations is 10, it was called in 13 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ayotoya_65, BetterKatz_64, Brylie_64, Chop_66, DelRio_65, Francois_64, GrandSlam_66, Hamood_66, Mulch_64, Nadeem_64, NancyRae_63, Parada_64, WheatThin_63,

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

Genes that do not have the "Most Annotated" start:
• Bock_66, Fryberger_12, Guey18_15, Keelan_10, Pimento_67, Ronaldo_15, Sunfish_66, TPA4_67, Volt_15, Ziko_16,

Summary by start number:

Start 9:
• Found in 6 of 23 (26.1%) of genes in pham
• Manual Annotations of this start: 6 of 22

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bock_66 (DI), Fryberger_12 (DP), Pimento_67 (DI), Ronaldo_15 (DP), Volt_15 (DP), Ziko_16 (DP),

Start 10:
• Found in 13 of 23 (56.5%) of genes in pham
• Manual Annotations of this start: 13 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ayotoya_65 (DI), BetterKatz_64 (DI), Brylie_64 (DI), Chop_66 (DI), DelRio_65 (DI), Francois_64 (DI), GrandSlam_66 (DI), Hamood_66 (DI), Mulch_64 (DI), Nadeem_64 (DI), NancyRae_63 (DI), Parada_64 (DI), WheatThin_63 (DI),

Start 11:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Guey18_15 (DP),

Start 12:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Keelan_10 (DP),

Start 16:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sunfish_66 (singleton),

Start 35:
• Found in 1 of 23 (4.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TPA4_67 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, DP, DI,

Info for manual annotations of cluster DI:
•Start number 9 was manually annotated 2 times for cluster DI.
•Start number 10 was manually annotated 13 times for cluster DI.

Info for manual annotations of cluster DP:
•Start number 9 was manually annotated 4 times for cluster DP.
•Start number 11 was manually annotated 1 time for cluster DP.
•Start number 12 was manually annotated 1 time for cluster DP.

Gene Information:

Gene: Ayotoya_65 Start: 42875, Stop: 43186, Start Num: 10
Candidate Starts for Ayotoya_65:
(Start: 10 @42875 has 13 MA's), (20, 42962), (22, 43004),

Gene: BetterKatz_64 Start: 42074, Stop: 42385, Start Num: 10
Candidate Starts for BetterKatz_64:
(Start: 10 @42074 has 13 MA's), (20, 42161), (22, 42203),

Gene: Bock_66 Start: 42318, Stop: 42629, Start Num: 9
Candidate Starts for Bock_66:
(Start: 9 @42318 has 6 MA's), (20, 42405), (22, 42447),

Gene: Brylie_64 Start: 41897, Stop: 42208, Start Num: 10
Candidate Starts for Brylie_64:
(Start: 10 @41897 has 13 MA's), (20, 41984), (22, 42026),

Gene: Chop_66 Start: 43063, Stop: 43374, Start Num: 10
Candidate Starts for Chop_66:
(Start: 10 @43063 has 13 MA's), (20, 43150), (22, 43192),

Gene: DelRio_65 Start: 43084, Stop: 43395, Start Num: 10
Candidate Starts for DelRio_65:
(Start: 10 @43084 has 13 MA's), (18, 43147), (20, 43171), (22, 43213), (29, 43333),

Gene: Francois_64 Start: 42083, Stop: 42394, Start Num: 10
Candidate Starts for Francois_64:
(Start: 10 @42083 has 13 MA's), (18, 42146),

Gene: Fryberger_12 Start: 2985, Stop: 2701, Start Num: 9
Candidate Starts for Fryberger_12:
(7, 2994), (Start: 9 @2985 has 6 MA's), (14, 2967), (19, 2904), (23, 2835), (31, 2709),

Gene: GrandSlam_66 Start: 43063, Stop: 43374, Start Num: 10
Candidate Starts for GrandSlam_66:
(Start: 10 @43063 has 13 MA's), (20, 43150), (22, 43192),

Gene: Guey18_15 Start: 3679, Stop: 3395, Start Num: 11
Candidate Starts for Guey18_15:
(6, 3700), (Start: 11 @3679 has 1 MA's), (19, 3598), (23, 3529), (31, 3403),

Gene: Hamood_66 Start: 43063, Stop: 43374, Start Num: 10
Candidate Starts for Hamood_66:
(Start: 10 @43063 has 13 MA's), (20, 43150), (22, 43192),

Gene: Keelan_10 Start: 2614, Stop: 2336, Start Num: 12
Candidate Starts for Keelan_10:
(1, 2797), (2, 2686), (4, 2665), (5, 2650), (8, 2626), (Start: 12 @2614 has 1 MA's), (23, 2476), (25, 2455), (26, 2395), (27, 2392), (30, 2362), (31, 2344),

Gene: Mulch_64 Start: 41897, Stop: 42208, Start Num: 10
Candidate Starts for Mulch_64:
(Start: 10 @41897 has 13 MA's), (20, 41984), (22, 42026),

Gene: Nadeem_64 Start: 41885, Stop: 42196, Start Num: 10
Candidate Starts for Nadeem_64:
(Start: 10 @41885 has 13 MA's), (20, 41972), (22, 42014),

Gene: NancyRae_63 Start: 41835, Stop: 42146, Start Num: 10
Candidate Starts for NancyRae_63:
(Start: 10 @41835 has 13 MA's), (18, 41898), (20, 41922), (22, 41964), (29, 42084),

Gene: Parada_64 Start: 41897, Stop: 42208, Start Num: 10
Candidate Starts for Parada_64:
(Start: 10 @41897 has 13 MA's), (20, 41984), (22, 42026),

Gene: Pimento_67 Start: 42016, Stop: 42327, Start Num: 9
Candidate Starts for Pimento_67:
(Start: 9 @42016 has 6 MA's), (20, 42103), (22, 42145), (29, 42265),

Gene: Ronaldo_15 Start: 3912, Stop: 3628, Start Num: 9
Candidate Starts for Ronaldo_15:
(7, 3921), (Start: 9 @3912 has 6 MA's), (14, 3894), (19, 3831), (23, 3762), (31, 3636),

Gene: Sunfish_66 Start: 43379, Stop: 43101, Start Num: 16
Candidate Starts for Sunfish_66:
(13, 43385), (15, 43382), (Start: 16 @43379 has 1 MA's), (17, 43370), (21, 43277), (24, 43238), (28, 43151),

Gene: TPA4_67 Start: 44981, Stop: 45280, Start Num: 35
Candidate Starts for TPA4_67:
(3, 44555), (32, 44951), (33, 44963), (34, 44972), (35, 44981), (36, 45041), (37, 45119), (38, 45140), (39, 45236),

Gene: Volt_15 Start: 3912, Stop: 3628, Start Num: 9
Candidate Starts for Volt_15:
(7, 3921), (Start: 9 @3912 has 6 MA's), (14, 3894), (19, 3831), (23, 3762), (31, 3636),

Gene: WheatThin_63 Start: 41885, Stop: 42196, Start Num: 10
Candidate Starts for WheatThin_63:
(Start: 10 @41885 has 13 MA's), (20, 41972), (22, 42014),

Gene: Ziko_16 Start: 3926, Stop: 3642, Start Num: 9
Candidate Starts for Ziko_16:
(7, 3935), (Start: 9 @3926 has 6 MA's), (14, 3908), (19, 3845), (23, 3776), (31, 3650),