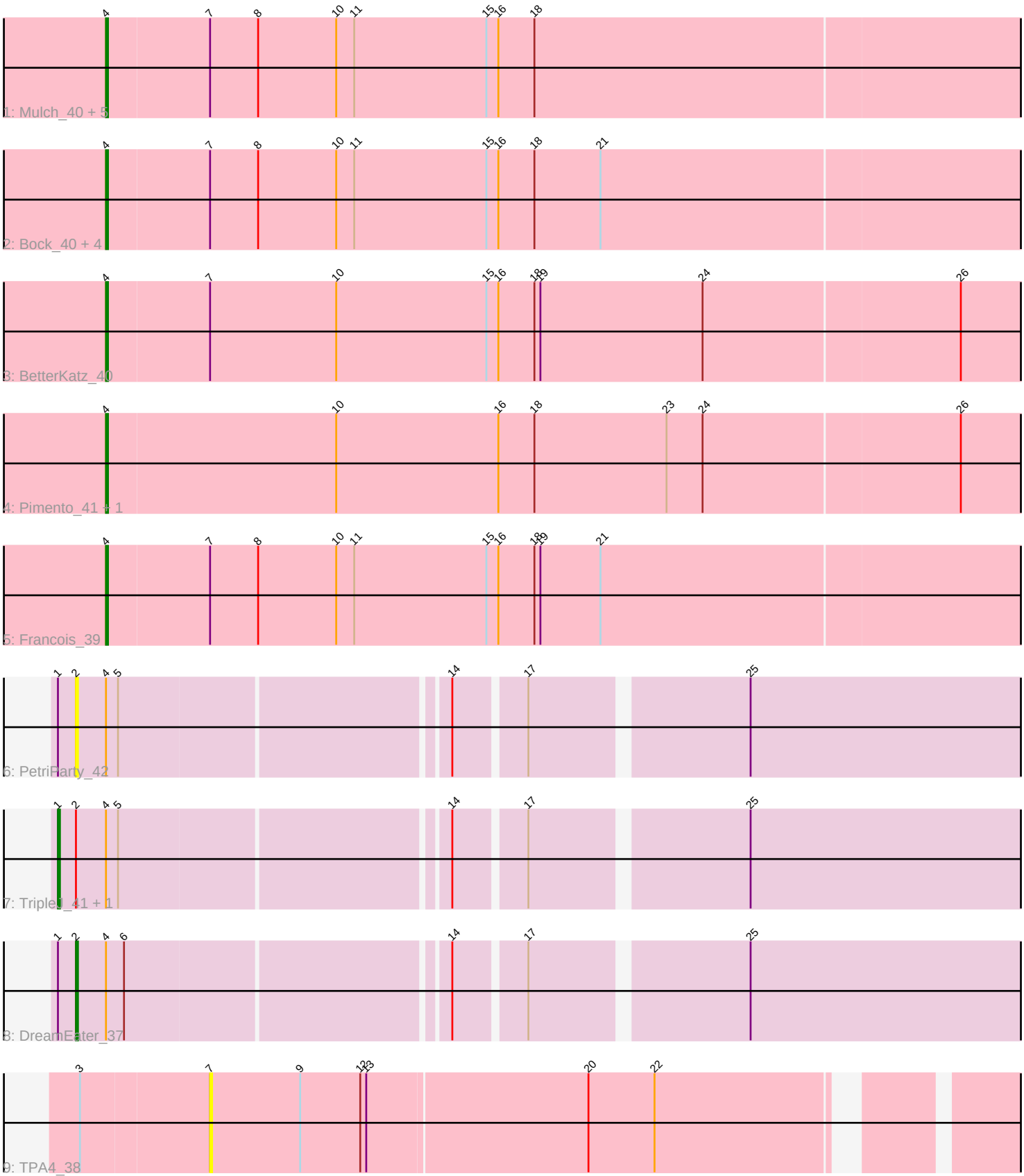
Pham 312033


4
7
8
10
11
15
16
18
1: Mulch_40 + 5
4
7
8
10
11
15
16
18
21
2: Bock_40 + 4
4
7
10
15
16
18
19
24
26
3: BetterKatz_40
4
10
16
18
23
24
26
4: Pimento_41 + 1
4
7
8
10
11
15
16
18
19
21
5: Francois_39
1
2
4
5
14
17
25
6: PetriParty_42
1
2
4
5
14
17
25
7: Triple1_41 + 1
1
2
4
6
14
17
25
8: DreamEater_37
3
7
9
12
13
20
22
9: TPA4_38

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 312033 Report

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

Pham number 312033 has 20 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Mulch_40, NancyRae_40, Brylie_40, WheatThin_40, Parada_40, Nadeem_40
• Track 2 : Bock_40, Ayotoya_40, Hamood_40, GrandSlam_40, Chop_40
• Track 3 : BetterKatz_40
• Track 4 : Pimento_41, DelRio_41
• Track 5 : Francois_39
• Track 6 : PetriParty_42
• Track 7 : TripleJ_41, Kukla_40
• Track 8 : DreamEater_37
• Track 9 : TPA4_38

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

The start number called the most often in the published annotations is 4, it was called in 15 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ayotoya_40, BetterKatz_40, Bock_40, Brylie_40, Chop_40, DelRio_41, Francois_39, GrandSlam_40, Hamood_40, Mulch_40, Nadeem_40, NancyRae_40, Parada_40, Pimento_41, WheatThin_40,

Genes that have the "Most Annotated" start but do not call it:
• DreamEater_37, Kukla_40, PetriParty_42, TripleJ_41,

Genes that do not have the "Most Annotated" start:
• TPA4_38,

Summary by start number:

Start 1:
• Found in 4 of 20 (20.0%) of genes in pham
• Manual Annotations of this start: 2 of 18
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Kukla_40 (FJ), TripleJ_41 (FJ),

Start 2:
• Found in 4 of 20 (20.0%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 50.0% of time when present
• Phage (with cluster) where this start called: DreamEater_37 (FJ), PetriParty_42 (FJ),

Start 4:
• Found in 19 of 20 (95.0%) of genes in pham
• Manual Annotations of this start: 15 of 18
• Called 78.9% of time when present
• Phage (with cluster) where this start called: Ayotoya_40 (DI), BetterKatz_40 (DI), Bock_40 (DI), Brylie_40 (DI), Chop_40 (DI), DelRio_41 (DI), Francois_39 (DI), GrandSlam_40 (DI), Hamood_40 (DI), Mulch_40 (DI), Nadeem_40 (DI), NancyRae_40 (DI), Parada_40 (DI), Pimento_41 (DI), WheatThin_40 (DI),

Start 7:
• Found in 14 of 20 (70.0%) of genes in pham
• No Manual Annotations of this start.
• Called 7.1% of time when present
• Phage (with cluster) where this start called: TPA4_38 (singleton),

Summary by clusters:

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

Info for manual annotations of cluster DI:
•Start number 4 was manually annotated 15 times for cluster DI.

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

Gene Information:

Gene: Ayotoya_40 Start: 32799, Stop: 32296, Start Num: 4
Candidate Starts for Ayotoya_40:
(Start: 4 @32799 has 15 MA's), (7, 32748), (8, 32724), (10, 32685), (11, 32676), (15, 32610), (16, 32604), (18, 32586), (21, 32553),

Gene: BetterKatz_40 Start: 32326, Stop: 31823, Start Num: 4
Candidate Starts for BetterKatz_40:
(Start: 4 @32326 has 15 MA's), (7, 32275), (10, 32212), (15, 32137), (16, 32131), (18, 32113), (19, 32110), (24, 32029), (26, 31903),

Gene: Bock_40 Start: 32019, Stop: 31516, Start Num: 4
Candidate Starts for Bock_40:
(Start: 4 @32019 has 15 MA's), (7, 31968), (8, 31944), (10, 31905), (11, 31896), (15, 31830), (16, 31824), (18, 31806), (21, 31773),

Gene: Brylie_40 Start: 32066, Stop: 31563, Start Num: 4

Candidate Starts for Brylie_40:
(Start: 4 @32066 has 15 MA's), (7, 32015), (8, 31991), (10, 31952), (11, 31943), (15, 31877), (16, 31871), (18, 31853),

Gene: Chop_40 Start: 32546, Stop: 32043, Start Num: 4
Candidate Starts for Chop_40:
(Start: 4 @32546 has 15 MA's), (7, 32495), (8, 32471), (10, 32432), (11, 32423), (15, 32357), (16, 32351), (18, 32333), (21, 32300),

Gene: DelRio_41 Start: 33255, Stop: 32752, Start Num: 4
Candidate Starts for DelRio_41:
(Start: 4 @33255 has 15 MA's), (10, 33141), (16, 33060), (18, 33042), (23, 32976), (24, 32958), (26, 32832),

Gene: DreamEater_37 Start: 30074, Stop: 29601, Start Num: 2
Candidate Starts for DreamEater_37:
(Start: 1 @30083 has 2 MA's), (Start: 2 @30074 has 1 MA's), (Start: 4 @30059 has 15 MA's), (6, 30050), (14, 29897), (17, 29864), (25, 29762),

Gene: Francois_39 Start: 32150, Stop: 31647, Start Num: 4
Candidate Starts for Francois_39:
(Start: 4 @32150 has 15 MA's), (7, 32099), (8, 32075), (10, 32036), (11, 32027), (15, 31961), (16, 31955), (18, 31937), (19, 31934), (21, 31904),

Gene: GrandSlam_40 Start: 32546, Stop: 32043, Start Num: 4
Candidate Starts for GrandSlam_40:
(Start: 4 @32546 has 15 MA's), (7, 32495), (8, 32471), (10, 32432), (11, 32423), (15, 32357), (16, 32351), (18, 32333), (21, 32300),

Gene: Hamood_40 Start: 32546, Stop: 32043, Start Num: 4
Candidate Starts for Hamood_40:
(Start: 4 @32546 has 15 MA's), (7, 32495), (8, 32471), (10, 32432), (11, 32423), (15, 32357), (16, 32351), (18, 32333), (21, 32300),

Gene: Kukla_40 Start: 29802, Stop: 29320, Start Num: 1
Candidate Starts for Kukla_40:
(Start: 1 @29802 has 2 MA's), (Start: 2 @29793 has 1 MA's), (Start: 4 @29778 has 15 MA's), (5, 29772), (14, 29616), (17, 29583), (25, 29481),

Gene: Mulch_40 Start: 32066, Stop: 31563, Start Num: 4
Candidate Starts for Mulch_40:
(Start: 4 @32066 has 15 MA's), (7, 32015), (8, 31991), (10, 31952), (11, 31943), (15, 31877), (16, 31871), (18, 31853),

Gene: Nadeem_40 Start: 32066, Stop: 31563, Start Num: 4
Candidate Starts for Nadeem_40:
(Start: 4 @32066 has 15 MA's), (7, 32015), (8, 31991), (10, 31952), (11, 31943), (15, 31877), (16, 31871), (18, 31853),

Gene: NancyRae_40 Start: 32076, Stop: 31573, Start Num: 4
Candidate Starts for NancyRae_40:
(Start: 4 @32076 has 15 MA's), (7, 32025), (8, 32001), (10, 31962), (11, 31953), (15, 31887), (16, 31881), (18, 31863),

Gene: Parada_40 Start: 32066, Stop: 31563, Start Num: 4
Candidate Starts for Parada_40:
(Start: 4 @32066 has 15 MA's), (7, 32015), (8, 31991), (10, 31952), (11, 31943), (15, 31877), (16, 31871), (18, 31853),

Gene: PetriParty_42 Start: 30030, Stop: 29557, Start Num: 2
Candidate Starts for PetriParty_42:
(Start: 1 @30039 has 2 MA's), (Start: 2 @30030 has 1 MA's), (Start: 4 @30015 has 15 MA's), (5, 30009), (14, 29853), (17, 29820), (25, 29718),

Gene: Pimento_41 Start: 31724, Stop: 31221, Start Num: 4
Candidate Starts for Pimento_41:
(Start: 4 @31724 has 15 MA's), (10, 31610), (16, 31529), (18, 31511), (23, 31445), (24, 31427), (26, 31301),

Gene: TPA4_38 Start: 33404, Stop: 32979, Start Num: 7
Candidate Starts for TPA4_38:
(3, 33467), (7, 33404), (9, 33359), (12, 33329), (13, 33326), (20, 33218), (22, 33185),

Gene: TripleJ_41 Start: 29643, Stop: 29161, Start Num: 1
Candidate Starts for TripleJ_41:
(Start: 1 @29643 has 2 MA's), (Start: 2 @29634 has 1 MA's), (Start: 4 @29619 has 15 MA's), (5, 29613), (14, 29457), (17, 29424), (25, 29322),

Gene: WheatThin_40 Start: 32066, Stop: 31563, Start Num: 4
Candidate Starts for WheatThin_40:
(Start: 4 @32066 has 15 MA's), (7, 32015), (8, 31991), (10, 31952), (11, 31943), (15, 31877), (16, 31871), (18, 31853),