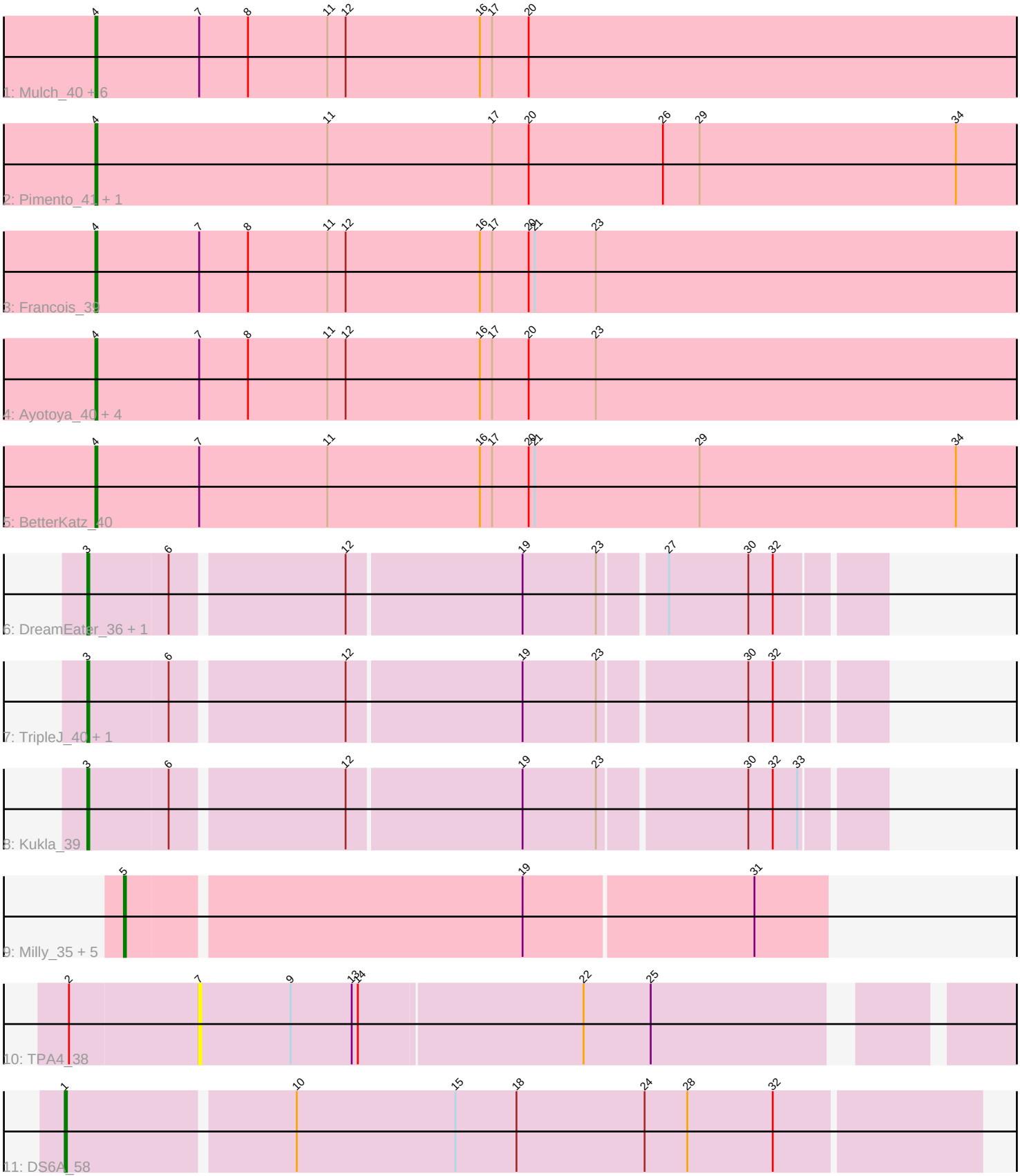
Pham 347919


4
7
8
11
12
16
17
20
1: Mulch_40 +16
4
11
17
20
26
29
34
2: Pimento_41 + 1
4
7
8
11
12
16
17
20
21
23
3: Francois_39
4
7
8
11
12
16
17
20
23
4: Ayotoya_40 + 4
4
7
11
16
17
20
21
29
34
5: BetterKatz_40
3
6
12
19
23
27
30
32
6: DreamEater_36 + 1
3
6
12
19
23
30
32
7: TripleJ_40 + 1
3
6
12
19
23
30
32
33
8: Kukla_39
5
19
31
9: Milly_35 + 5
2
7
9
13
14
22
25
10: TPA4_38
1
10
15
18
24
28
32
11: DS6A_58

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 347919 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347919 has 29 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Mulch_40, Parada_40, NancyRae_40, Nadeem_40, SussRoloMann_40, WheatThin_40, Brylie_40
• Track 2 : Pimento_41, DelRio_41
• Track 3 : Francois_39
• Track 4 : Ayotoya_40, GrandSlam_40, Chop_40, Bock_40, Hamood_40
• Track 5 : BetterKatz_40
• Track 6 : DreamEater_36, GUPitcher_36
• Track 7 : TripleJ_40, PetriParty_41
• Track 8 : Kukla_39
• Track 9 : Milly_35, Findley_35, DismalFunk_35, Marcoliusprime_35, Strobilo_35, DismalStressor_35
• Track 10 : TPA4_38
• Track 11 : DS6A_58

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 26 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, SussRoloMann_40, WheatThin_40,

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

Genes that do not have the "Most Annotated" start:
• DS6A_58, DismalFunk_35, DismalStressor_35, DreamEater_36, Findley_35, GUPitcher_36, Kukla_39, Marcoliusprime_35, Milly_35, PetriParty_41, Strobilo_35, TPA4_38, TripleJ_40,

Summary by start number:

Start 1:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DS6A_58 (singleton),

Start 3:
• Found in 5 of 29 (17.2%) of genes in pham
• Manual Annotations of this start: 4 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DreamEater_36 (FJ), GUPitcher_36 (FJ), Kukla_39 (FJ), PetriParty_41 (FJ), TripleJ_40 (FJ),

Start 4:
• Found in 16 of 29 (55.2%) of genes in pham
• Manual Annotations of this start: 15 of 26
• Called 100.0% 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), SussRoloMann_40 (DI), WheatThin_40 (DI),

Start 5:
• Found in 6 of 29 (20.7%) of genes in pham
• Manual Annotations of this start: 6 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DismalFunk_35 (K2), DismalStressor_35 (K2), Findley_35 (K2), Marcoliusprime_35 (K2), Milly_35 (K2), Strobilo_35 (K2),

Start 7:
• Found in 15 of 29 (51.7%) of genes in pham
• No Manual Annotations of this start.
• Called 6.7% of time when present
• Phage (with cluster) where this start called: TPA4_38 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: K2, singleton, FJ, 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 3 was manually annotated 4 times for cluster FJ.

Info for manual annotations of cluster K2:
•Start number 5 was manually annotated 6 times for cluster K2.

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), (11, 32685), (12, 32676), (16, 32610), (17, 32604), (20, 32586), (23, 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), (11, 32212), (16, 32137), (17, 32131), (20, 32113), (21, 32110), (29, 32029), (34, 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), (11, 31905), (12, 31896), (16, 31830), (17, 31824), (20, 31806), (23, 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), (11, 31952), (12, 31943), (16, 31877), (17, 31871), (20, 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), (11, 32432), (12, 32423), (16, 32357), (17, 32351), (20, 32333), (23, 32300),

Gene: DS6A_58 Start: 41018, Stop: 40578, Start Num: 1
Candidate Starts for DS6A_58:
(Start: 1 @41018 has 1 MA's), (10, 40910), (15, 40832), (18, 40802), (24, 40739), (28, 40718), (32, 40676),

Gene: DelRio_41 Start: 33255, Stop: 32752, Start Num: 4
Candidate Starts for DelRio_41:
(Start: 4 @33255 has 15 MA's), (11, 33141), (17, 33060), (20, 33042), (26, 32976), (29, 32958), (34, 32832),

Gene: DismalFunk_35 Start: 28971, Stop: 29306, Start Num: 5
Candidate Starts for DismalFunk_35:
(Start: 5 @28971 has 6 MA's), (19, 29160), (31, 29271),

Gene: DismalStressor_35 Start: 28971, Stop: 29306, Start Num: 5
Candidate Starts for DismalStressor_35:
(Start: 5 @28971 has 6 MA's), (19, 29160), (31, 29271),

Gene: DreamEater_36 Start: 29588, Stop: 29217, Start Num: 3
Candidate Starts for DreamEater_36:
(Start: 3 @29588 has 4 MA's), (6, 29549), (12, 29468), (19, 29384), (23, 29348), (27, 29318), (30, 29279), (32, 29267),

Gene: Findley_35 Start: 28964, Stop: 29299, Start Num: 5
Candidate Starts for Findley_35:
(Start: 5 @28964 has 6 MA's), (19, 29153), (31, 29264),

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), (11, 32036), (12, 32027), (16, 31961), (17, 31955), (20, 31937), (21, 31934), (23, 31904),

Gene: GUPitcher_36 Start: 29819, Stop: 29448, Start Num: 3
Candidate Starts for GUPitcher_36:
(Start: 3 @29819 has 4 MA's), (6, 29780), (12, 29699), (19, 29615), (23, 29579), (27, 29549), (30, 29510), (32, 29498),

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), (11, 32432), (12, 32423), (16, 32357), (17, 32351), (20, 32333), (23, 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), (11, 32432), (12, 32423), (16, 32357), (17, 32351), (20, 32333), (23, 32300),

Gene: Kukla_39 Start: 29307, Stop: 28936, Start Num: 3
Candidate Starts for Kukla_39:
(Start: 3 @29307 has 4 MA's), (6, 29268), (12, 29187), (19, 29103), (23, 29067), (30, 28998), (32, 28986), (33, 28974),

Gene: Marcoliusprime_35 Start: 28971, Stop: 29306, Start Num: 5
Candidate Starts for Marcoliusprime_35:
(Start: 5 @28971 has 6 MA's), (19, 29160), (31, 29271),

Gene: Milly_35 Start: 28944, Stop: 29279, Start Num: 5
Candidate Starts for Milly_35:
(Start: 5 @28944 has 6 MA's), (19, 29133), (31, 29244),

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), (11, 31952), (12, 31943), (16, 31877), (17, 31871), (20, 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), (11, 31952), (12, 31943), (16, 31877), (17, 31871), (20, 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), (11, 31962), (12, 31953), (16, 31887), (17, 31881), (20, 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), (11, 31952), (12, 31943), (16, 31877), (17, 31871), (20, 31853),

Gene: PetriParty_41 Start: 29544, Stop: 29173, Start Num: 3

Candidate Starts for PetriParty_41:
(Start: 3 @29544 has 4 MA's), (6, 29505), (12, 29424), (19, 29340), (23, 29304), (30, 29235), (32, 29223),

Gene: Pimento_41 Start: 31724, Stop: 31221, Start Num: 4
Candidate Starts for Pimento_41:
(Start: 4 @31724 has 15 MA's), (11, 31610), (17, 31529), (20, 31511), (26, 31445), (29, 31427), (34, 31301),

Gene: Strobilo_35 Start: 28945, Stop: 29280, Start Num: 5
Candidate Starts for Strobilo_35:
(Start: 5 @28945 has 6 MA's), (19, 29134), (31, 29245),

Gene: SussRoloMann_40 Start: 32066, Stop: 31563, Start Num: 4
Candidate Starts for SussRoloMann_40:
(Start: 4 @32066 has 15 MA's), (7, 32015), (8, 31991), (11, 31952), (12, 31943), (16, 31877), (17, 31871), (20, 31853),

Gene: TPA4_38 Start: 33404, Stop: 32979, Start Num: 7
Candidate Starts for TPA4_38:
(2, 33467), (7, 33404), (9, 33359), (13, 33329), (14, 33326), (22, 33218), (25, 33185),

Gene: TripleJ_40 Start: 29148, Stop: 28777, Start Num: 3
Candidate Starts for TripleJ_40:
(Start: 3 @29148 has 4 MA's), (6, 29109), (12, 29028), (19, 28944), (23, 28908), (30, 28839), (32, 28827),

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), (11, 31952), (12, 31943), (16, 31877), (17, 31871), (20, 31853),