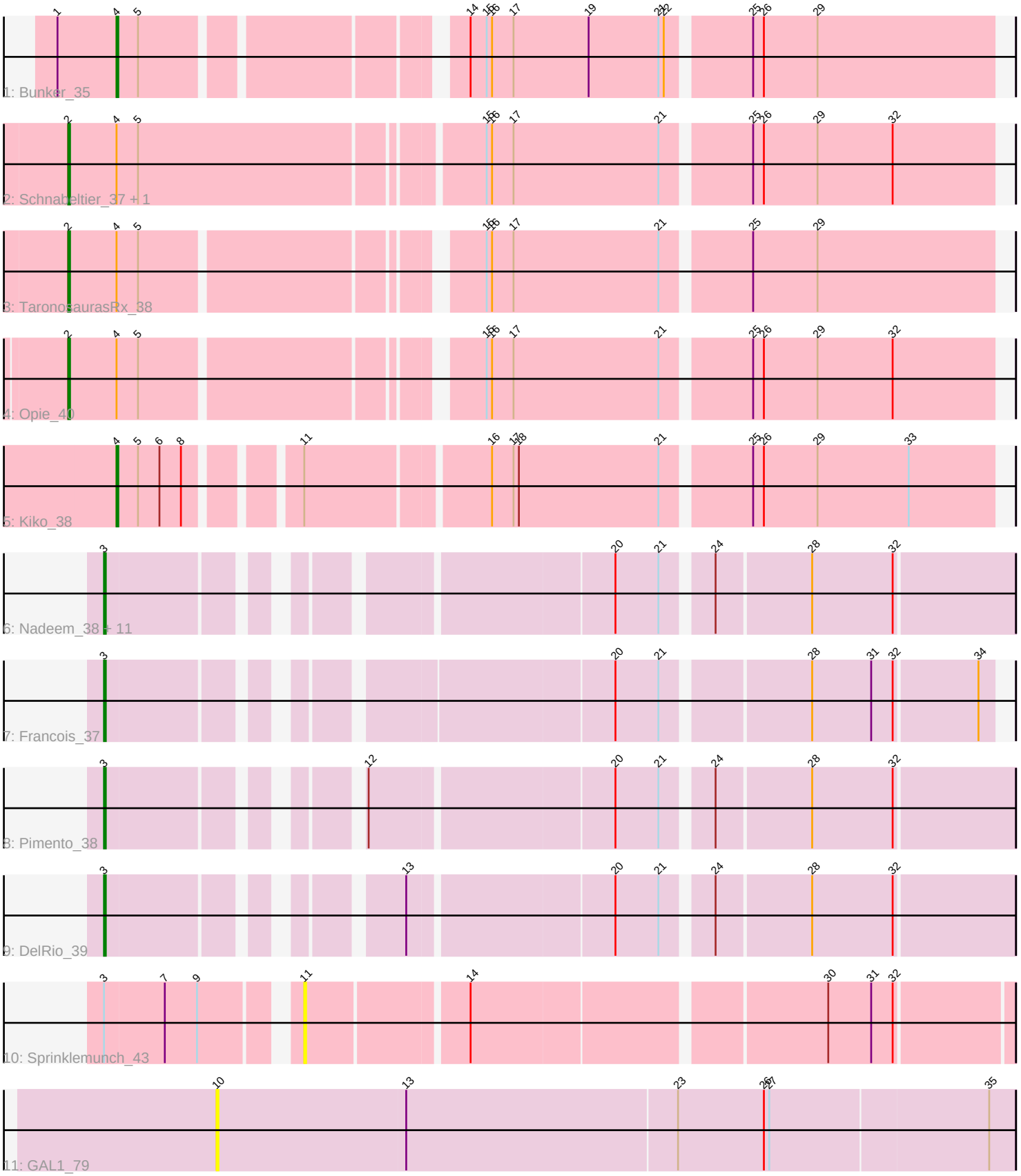
Pham 309213


1: Bunker_35
2: Schnabeltier_37 + 1
3: TaronosaurasRx_38
4: Opie_40
5: Kiko_38
6: Nadeem_38 + 11
7: Francois_37
8: Pimento_38
9: DelRio_39
10: Sprinklemunch_43
11: GAL1_79

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 309213 Report

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

Pham number 309213 has 23 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Bunker_35
• Track 2 : Schnabeltier_37, MagicMan_37
• Track 3 : TaronosaurasRx_38
• Track 4 : Opie_40
• Track 5 : Kiko_38
• Track 6 : Nadeem_38, Chop_38, WheatThin_38, Parada_38, Brylie_38, Bock_38, Hamood_38, Ayotoya_38, Mulch_38, GrandSlam_38, BetterKatz_38, NancyRae_38
• Track 7 : Francois_37
• Track 8 : Pimento_38
• Track 9 : DelRio_39
• Track 10 : Sprinklemunch_43
• Track 11 : GAL1_79

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 15 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ayotoya_38, BetterKatz_38, Bock_38, Brylie_38, Chop_38, DelRio_39, Francois_37, GrandSlam_38, Hamood_38, Mulch_38, Nadeem_38, NancyRae_38, Parada_38, Pimento_38, WheatThin_38,

Genes that have the "Most Annotated" start but do not call it:
• Sprinklemunch_43,

Genes that do not have the "Most Annotated" start:
• Bunker_35, GAL1_79, Kiko_38, MagicMan_37, Opie_40, Schnabeltier_37, TaronosaurasRx_38,

Summary by start number:

Start 2:
• Found in 4 of 23 (17.4%) of genes in pham

• Manual Annotations of this start: 4 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MagicMan_37 (DB), Opie_40 (DB), Schnabeltier_37 (DB), TaronosaurasRx_38 (DB),

Start 3:
• Found in 16 of 23 (69.6%) of genes in pham
• Manual Annotations of this start: 15 of 21
• Called 93.8% of time when present
• Phage (with cluster) where this start called: Ayotoya_38 (DI), BetterKatz_38 (DI), Bock_38 (DI), Brylie_38 (DI), Chop_38 (DI), DelRio_39 (DI), Francois_37 (DI), GrandSlam_38 (DI), Hamood_38 (DI), Mulch_38 (DI), Nadeem_38 (DI), NancyRae_38 (DI), Parada_38 (DI), Pimento_38 (DI), WheatThin_38 (DI),

Start 4:
• Found in 6 of 23 (26.1%) of genes in pham
• Manual Annotations of this start: 2 of 21
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Bunker_35 (DB), Kiko_38 (DB),

Start 10:
• 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: GAL1_79 (singleton),

Start 11:
• Found in 2 of 23 (8.7%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Sprinklemunch_43 (DW),

Summary by clusters:

There are 4 clusters represented in this pham: DW, singleton, DB, DI,

Info for manual annotations of cluster DB:
•Start number 2 was manually annotated 4 times for cluster DB.
•Start number 4 was manually annotated 2 times for cluster DB.

Info for manual annotations of cluster DI:
•Start number 3 was manually annotated 15 times for cluster DI.

Gene Information:

Gene: Ayotoya_38 Start: 30100, Stop: 30549, Start Num: 3
Candidate Starts for Ayotoya_38:
(Start: 3 @30100 has 15 MA's), (20, 30340), (21, 30364), (24, 30388), (28, 30439), (32, 30484),

Gene: BetterKatz_38 Start: 29628, Stop: 30077, Start Num: 3

Candidate Starts for BetterKatz_38:
(Start: 3 @29628 has 15 MA's), (20, 29868), (21, 29892), (24, 29916), (28, 29967), (32, 30012),

Gene: Bock_38 Start: 29320, Stop: 29769, Start Num: 3
Candidate Starts for Bock_38:
(Start: 3 @29320 has 15 MA's), (20, 29560), (21, 29584), (24, 29608), (28, 29659), (32, 29704),

Gene: Brylie_38 Start: 29367, Stop: 29816, Start Num: 3
Candidate Starts for Brylie_38:
(Start: 3 @29367 has 15 MA's), (20, 29607), (21, 29631), (24, 29655), (28, 29706), (32, 29751),

Gene: Bunker_35 Start: 29669, Stop: 30121, Start Num: 4
Candidate Starts for Bunker_35:
(1, 29636), (Start: 4 @29669 has 2 MA's), (5, 29681), (14, 29837), (15, 29846), (16, 29849), (17, 29861), (19, 29903), (21, 29942), (22, 29945), (25, 29987), (26, 29993), (29, 30023),

Gene: Chop_38 Start: 29848, Stop: 30297, Start Num: 3
Candidate Starts for Chop_38:
(Start: 3 @29848 has 15 MA's), (20, 30088), (21, 30112), (24, 30136), (28, 30187), (32, 30232),

Gene: DelRio_39 Start: 30556, Stop: 31005, Start Num: 3
Candidate Starts for DelRio_39:
(Start: 3 @30556 has 15 MA's), (13, 30688), (20, 30796), (21, 30820), (24, 30844), (28, 30895), (32, 30940),

Gene: Francois_37 Start: 29459, Stop: 29899, Start Num: 3
Candidate Starts for Francois_37:
(Start: 3 @29459 has 15 MA's), (20, 29702), (21, 29726), (28, 29801), (31, 29834), (32, 29846), (34, 29891),

Gene: GAL1_79 Start: 48135, Stop: 48575, Start Num: 10
Candidate Starts for GAL1_79:
(10, 48135), (13, 48240), (23, 48390), (26, 48438), (27, 48441), (35, 48561),

Gene: GrandSlam_38 Start: 29848, Stop: 30297, Start Num: 3
Candidate Starts for GrandSlam_38:
(Start: 3 @29848 has 15 MA's), (20, 30088), (21, 30112), (24, 30136), (28, 30187), (32, 30232),

Gene: Hamood_38 Start: 29848, Stop: 30297, Start Num: 3
Candidate Starts for Hamood_38:
(Start: 3 @29848 has 15 MA's), (20, 30088), (21, 30112), (24, 30136), (28, 30187), (32, 30232),

Gene: Kiko_38 Start: 29956, Stop: 30411, Start Num: 4
Candidate Starts for Kiko_38:
(Start: 4 @29956 has 2 MA's), (5, 29968), (6, 29980), (8, 29992), (11, 30043), (16, 30139), (17, 30151), (18, 30154), (21, 30232), (25, 30277), (26, 30283), (29, 30313), (33, 30364),

Gene: MagicMan_37 Start: 30586, Stop: 31080, Start Num: 2
Candidate Starts for MagicMan_37:
(Start: 2 @30586 has 4 MA's), (Start: 4 @30613 has 2 MA's), (5, 30625), (15, 30805), (16, 30808), (17, 30820), (21, 30901), (25, 30946), (26, 30952), (29, 30982), (32, 31024),

Gene: Mulch_38 Start: 29367, Stop: 29816, Start Num: 3

Candidate Starts for Mulch_38:
(Start: 3 @29367 has 15 MA's), (20, 29607), (21, 29631), (24, 29655), (28, 29706), (32, 29751),

Gene: Nadeem_38 Start: 29367, Stop: 29816, Start Num: 3
Candidate Starts for Nadeem_38:
(Start: 3 @29367 has 15 MA's), (20, 29607), (21, 29631), (24, 29655), (28, 29706), (32, 29751),

Gene: NancyRae_38 Start: 29376, Stop: 29825, Start Num: 3
Candidate Starts for NancyRae_38:
(Start: 3 @29376 has 15 MA's), (20, 29616), (21, 29640), (24, 29664), (28, 29715), (32, 29760),

Gene: Opie_40 Start: 31031, Stop: 31513, Start Num: 2
Candidate Starts for Opie_40:
(Start: 2 @31031 has 4 MA's), (Start: 4 @31058 has 2 MA's), (5, 31070), (15, 31238), (16, 31241), (17, 31253), (21, 31334), (25, 31379), (26, 31385), (29, 31415), (32, 31457),

Gene: Parada_38 Start: 29367, Stop: 29816, Start Num: 3
Candidate Starts for Parada_38:
(Start: 3 @29367 has 15 MA's), (20, 29607), (21, 29631), (24, 29655), (28, 29706), (32, 29751),

Gene: Pimento_38 Start: 29025, Stop: 29474, Start Num: 3
Candidate Starts for Pimento_38:
(Start: 3 @29025 has 15 MA's), (12, 29136), (20, 29265), (21, 29289), (24, 29313), (28, 29364), (32, 29409),

Gene: Schnabeltier_37 Start: 30216, Stop: 30710, Start Num: 2
Candidate Starts for Schnabeltier_37:
(Start: 2 @30216 has 4 MA's), (Start: 4 @30243 has 2 MA's), (5, 30255), (15, 30435), (16, 30438), (17, 30450), (21, 30531), (25, 30576), (26, 30582), (29, 30612), (32, 30654),

Gene: Sprinklemunch_43 Start: 32149, Stop: 32517, Start Num: 11
Candidate Starts for Sprinklemunch_43:
(Start: 3 @32053 has 15 MA's), (7, 32086), (9, 32104), (11, 32149), (14, 32233), (30, 32419), (31, 32443), (32, 32455),

Gene: TaronosaurasRx_38 Start: 29160, Stop: 29642, Start Num: 2
Candidate Starts for TaronosaurasRx_38:
(Start: 2 @29160 has 4 MA's), (Start: 4 @29187 has 2 MA's), (5, 29199), (15, 29367), (16, 29370), (17, 29382), (21, 29463), (25, 29508), (29, 29544),

Gene: WheatThin_38 Start: 29367, Stop: 29816, Start Num: 3
Candidate Starts for WheatThin_38:
(Start: 3 @29367 has 15 MA's), (20, 29607), (21, 29631), (24, 29655), (28, 29706), (32, 29751),