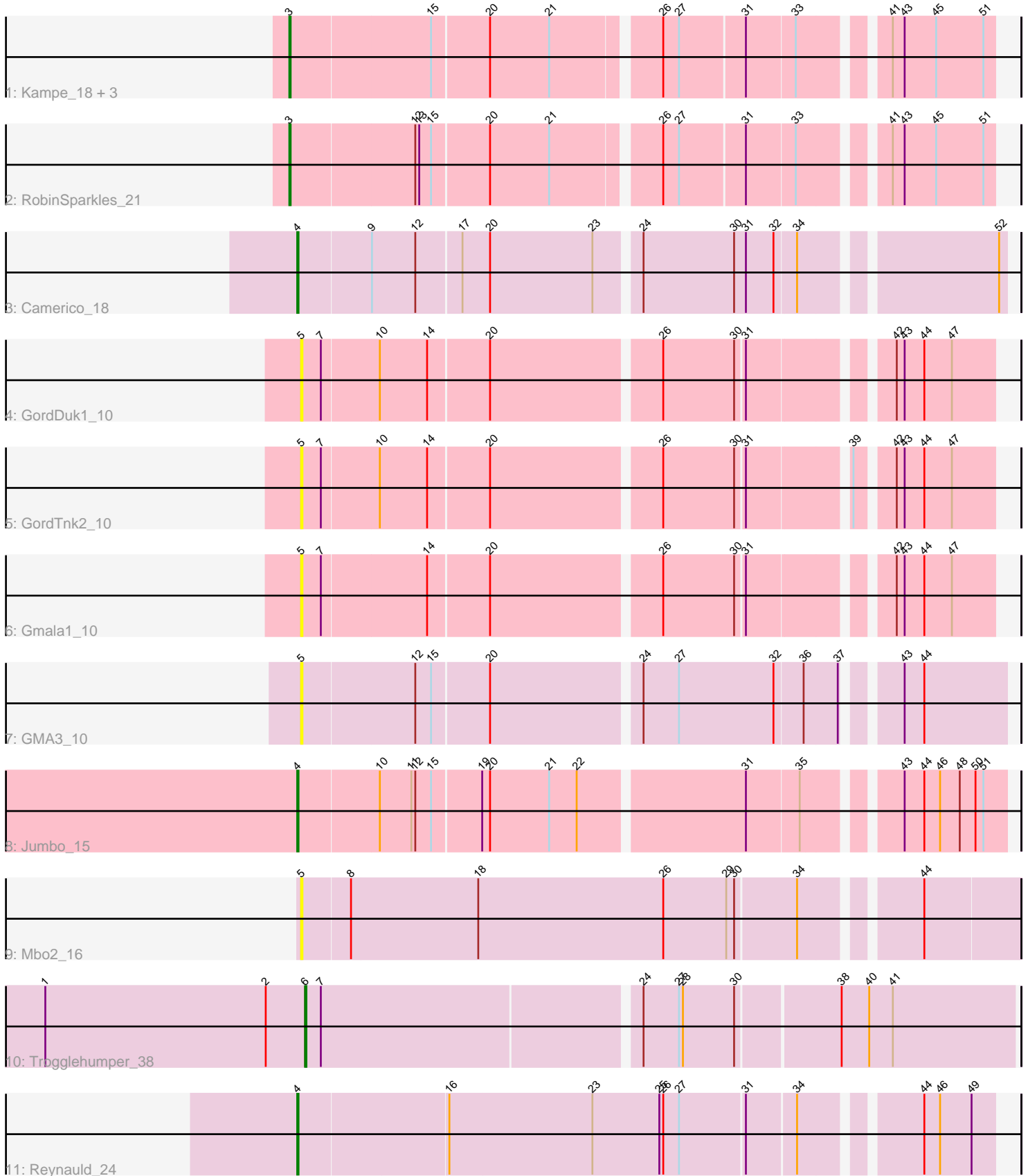


Pham 223541



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 223541 Report

This analysis was run 03/28/25 on database version 593.

Pham number 223541 has 14 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Kampe_18, Orchid_18, PatrickStar_18, Gibbles_17
- Track 2 : RobinSparkles_21
- Track 3 : Camerico_18
- Track 4 : GordDuk1_10
- Track 5 : GordTnk2_10
- Track 6 : Gmala1_10
- Track 7 : GMA3_10
- Track 8 : Jumbo_15
- Track 9 : Mbo2_16
- Track 10 : Trogglehumper_38
- Track 11 : Reynauld_24

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 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Gibbles_17, Kampe_18, Orchid_18, PatrickStar_18, RobinSparkles_21,

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

-

Genes that do not have the "Most Annotated" start:

- Camerico_18, GMA3_10, Gmala1_10, GordDuk1_10, GordTnk2_10, Jumbo_15, Mbo2_16, Reynauld_24, Trogglehumper_38,

Summary by start number:

Start 3:

- Found in 5 of 14 (35.7%) of genes in pham
- Manual Annotations of this start: 5 of 9
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Gibbles_17 (CX), Kampe_18 (CX), Orchid_18 (CX), PatrickStar_18 (CX), RobinSparkles_21 (CX),

Start 4:

- Found in 3 of 14 (21.4%) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Camerico_18 (DF), Jumbo_15 (DF3), Reynauld_24 (singleton),

Start 5:

- Found in 5 of 14 (35.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA3_10 (DF2), Gmala1_10 (DF1), GordDuk1_10 (DF1), GordTnk2_10 (DF1), Mbo2_16 (singleton),

Start 6:

- Found in 1 of 14 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trogglehumper_38 (singleton),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, DF, DF1, DF3, DF2, CX,

Info for manual annotations of cluster CX:

- Start number 3 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster DF:

- Start number 4 was manually annotated 1 time for cluster DF.

Info for manual annotations of cluster DF3:

- Start number 4 was manually annotated 1 time for cluster DF3.

Gene Information:

Gene: Camerico_18 Start: 16162, Stop: 16665, Start Num: 4

Candidate Starts for Camerico_18:

(Start: 4 @16162 has 3 MA's), (9, 16216), (12, 16249), (17, 16282), (20, 16303), (23, 16381), (24, 16411), (30, 16480), (31, 16489), (32, 16510), (34, 16525), (52, 16660),

Gene: GMA3_10 Start: 11406, Stop: 11906, Start Num: 5

Candidate Starts for GMA3_10:

(5, 11406), (12, 11490), (15, 11502), (20, 11544), (24, 11652), (27, 11679), (32, 11751), (36, 11772), (37, 11796), (43, 11829), (44, 11844),

Gene: Gibbles_17 Start: 14844, Stop: 15338, Start Num: 3

Candidate Starts for Gibbles_17:

(Start: 3 @14844 has 5 MA's), (15, 14949), (20, 14991), (21, 15036), (26, 15111), (27, 15123), (31, 15171), (33, 15207), (41, 15261), (43, 15270), (45, 15294), (51, 15330),

Gene: Gmala1_10 Start: 11275, Stop: 11763, Start Num: 5

Candidate Starts for Gmala1_10:

(5, 11275), (7, 11290), (14, 11368), (20, 11413), (26, 11536), (30, 11590), (31, 11596), (42, 11689), (43, 11695), (44, 11710), (47, 11731),

Gene: GordDuk1_10 Start: 11215, Stop: 11703, Start Num: 5

Candidate Starts for GordDuk1_10:

(5, 11215), (7, 11230), (10, 11272), (14, 11308), (20, 11353), (26, 11476), (30, 11530), (31, 11536), (42, 11629), (43, 11635), (44, 11650), (47, 11671),

Gene: GordTnk2_10 Start: 11182, Stop: 11670, Start Num: 5

Candidate Starts for GordTnk2_10:

(5, 11182), (7, 11197), (10, 11239), (14, 11275), (20, 11320), (26, 11443), (30, 11497), (31, 11503), (39, 11572), (42, 11596), (43, 11602), (44, 11617), (47, 11638),

Gene: Jumbo_15 Start: 16052, Stop: 16555, Start Num: 4

Candidate Starts for Jumbo_15:

(Start: 4 @16052 has 3 MA's), (10, 16112), (11, 16136), (12, 16139), (15, 16151), (19, 16187), (20, 16193), (21, 16238), (22, 16259), (31, 16379), (35, 16418), (43, 16478), (44, 16493), (46, 16505), (48, 16520), (50, 16532), (51, 16538),

Gene: Kampe_18 Start: 14702, Stop: 15196, Start Num: 3

Candidate Starts for Kampe_18:

(Start: 3 @14702 has 5 MA's), (15, 14807), (20, 14849), (21, 14894), (26, 14969), (27, 14981), (31, 15029), (33, 15065), (41, 15119), (43, 15128), (45, 15152), (51, 15188),

Gene: Mbo2_16 Start: 10875, Stop: 11396, Start Num: 5

Candidate Starts for Mbo2_16:

(5, 10875), (8, 10911), (18, 11007), (26, 11148), (29, 11196), (30, 11202), (34, 11247), (44, 11325),

Gene: Orchid_18 Start: 14702, Stop: 15196, Start Num: 3

Candidate Starts for Orchid_18:

(Start: 3 @14702 has 5 MA's), (15, 14807), (20, 14849), (21, 14894), (26, 14969), (27, 14981), (31, 15029), (33, 15065), (41, 15119), (43, 15128), (45, 15152), (51, 15188),

Gene: PatrickStar_18 Start: 14702, Stop: 15196, Start Num: 3

Candidate Starts for PatrickStar_18:

(Start: 3 @14702 has 5 MA's), (15, 14807), (20, 14849), (21, 14894), (26, 14969), (27, 14981), (31, 15029), (33, 15065), (41, 15119), (43, 15128), (45, 15152), (51, 15188),

Gene: Reynauld_24 Start: 17582, Stop: 18082, Start Num: 4

Candidate Starts for Reynauld_24:

(Start: 4 @17582 has 3 MA's), (16, 17693), (23, 17801), (25, 17852), (26, 17855), (27, 17867), (31, 17915), (34, 17951), (44, 18029), (46, 18041), (49, 18065),

Gene: RobinSparkles_21 Start: 15295, Stop: 15789, Start Num: 3

Candidate Starts for RobinSparkles_21:

(Start: 3 @15295 has 5 MA's), (12, 15388), (13, 15391), (15, 15400), (20, 15442), (21, 15487), (26, 15562), (27, 15574), (31, 15622), (33, 15658), (41, 15712), (43, 15721), (45, 15745), (51, 15781),

Gene: Trogglehumper_38 Start: 24086, Stop: 24607, Start Num: 6

Candidate Starts for Trogglehumper_38:

(1, 23888), (2, 24056), (Start: 6 @24086 has 1 MA's), (7, 24098), (24, 24332), (27, 24359), (28, 24362),
(30, 24401), (38, 24476), (40, 24497), (41, 24515),