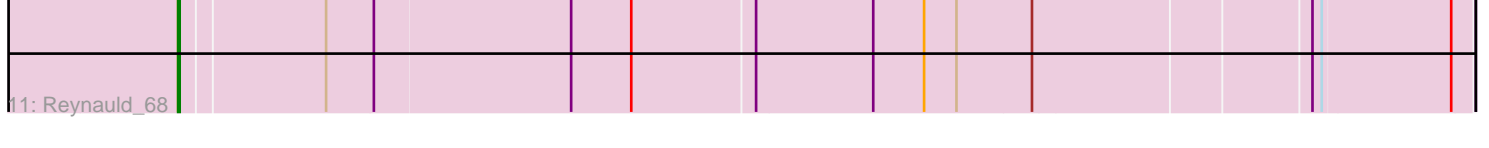
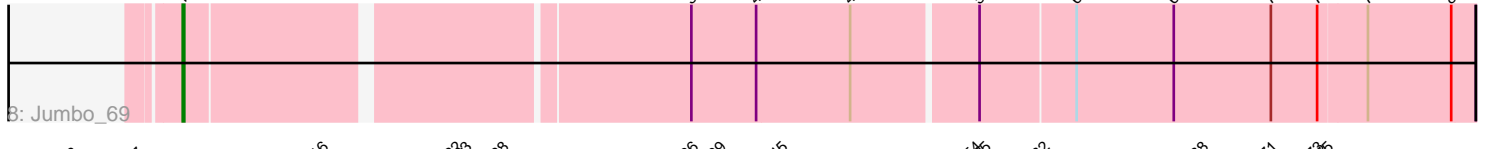
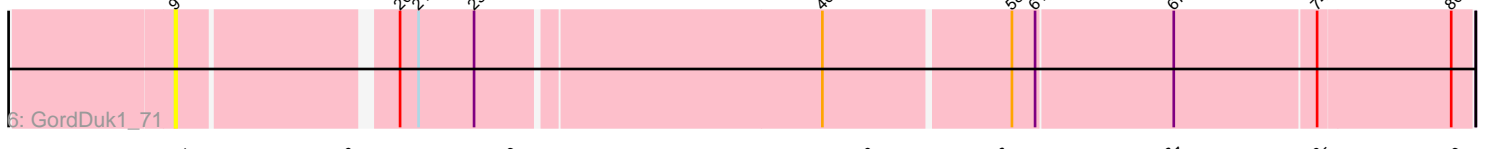
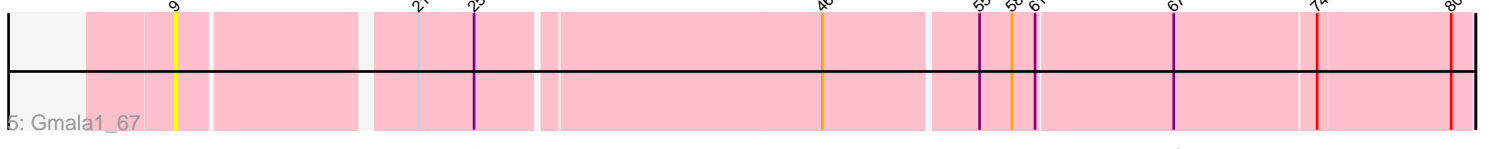
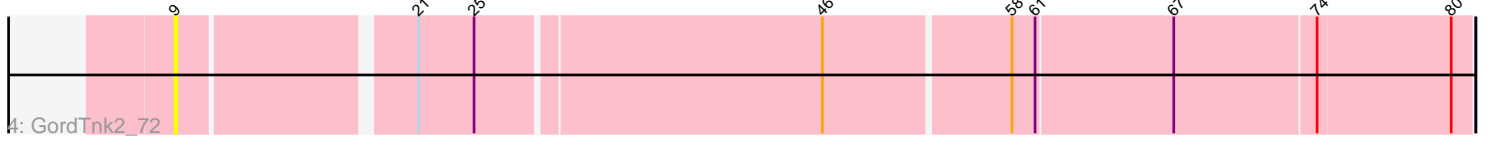
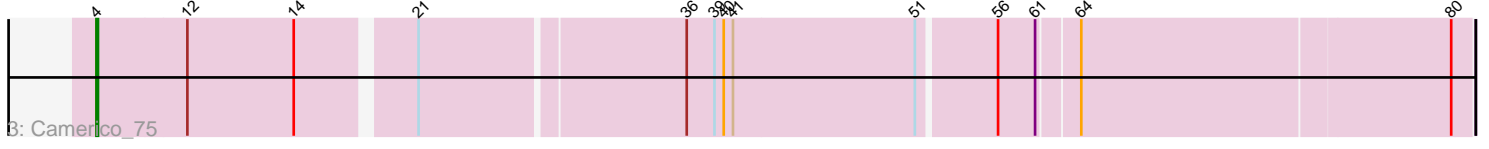
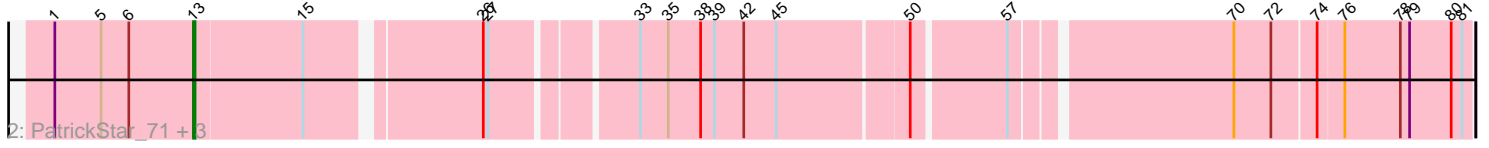
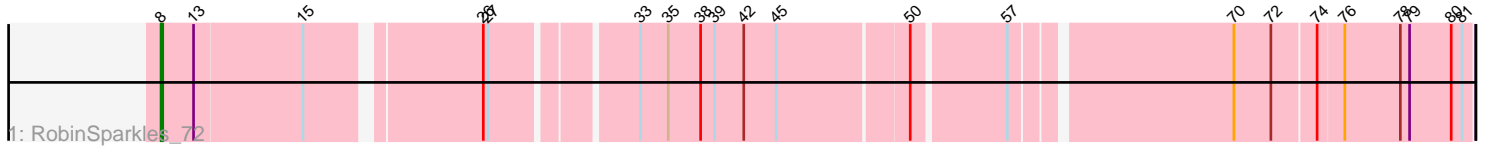


Pham 164027



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 164027 Report

This analysis was run 04/28/24 on database version 559.

Pham number 164027 has 14 members, 5 are drafts.

Phages represented in each track:

- Track 1 : RobinSparkles_72
- Track 2 : PatrickStar_71, Gibbles_68, Orchid_70, Kampe_71
- Track 3 : Camerico_75
- Track 4 : GordTnk2_72
- Track 5 : Gmala1_67
- Track 6 : GordDuk1_71
- Track 7 : GMA3_75
- Track 8 : Jumbo_69
- Track 9 : Trogglehumper_82
- Track 10 : Mbo2_72
- Track 11 : Reynauld_68

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

The start number called the most often in the published annotations is 13, it was called in 4 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Gibbles_68, Kampe_71, Orchid_70, PatrickStar_71,

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

- RobinSparkles_72,

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

- Camerico_75, GMA3_75, Gmala1_67, GordDuk1_71, GordTnk2_72, Jumbo_69, Mbo2_72, Reynauld_68, Trogglehumper_82,

Summary by start number:

Start 4:

- 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: Camerico_75 (DF),

Start 7:

- 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_82 (singleton),

Start 8:

- 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: RobinSparkles_72 (CX),

Start 9:

- Found in 3 of 14 (21.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gmala1_67 (DF1), GordDuk1_71 (DF1), GordTnk2_72 (DF1),

Start 10:

- Found in 2 of 14 (14.3%) 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: Mbo2_72 (singleton), Reynauld_68 (singleton),

Start 11:

- Found in 2 of 14 (14.3%) 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: GMA3_75 (DF2), Jumbo_69 (DF3),

Start 13:

- Found in 5 of 14 (35.7%) of genes in pham
- Manual Annotations of this start: 4 of 9
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Gibbles_68 (CX), Kampe_71 (CX), Orchid_70 (CX), PatrickStar_71 (CX),

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 8 was manually annotated 1 time for cluster CX.
- Start number 13 was manually annotated 4 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 11 was manually annotated 1 time for cluster DF3.

Gene Information:

Gene: Camerico_75 Start: 60592, Stop: 59744, Start Num: 4

Candidate Starts for Camerico_75:

(Start: 4 @60592 has 1 MA's), (12, 60535), (14, 60466), (21, 60397), (36, 60232), (39, 60214), (40, 60208), (41, 60202), (51, 60085), (56, 60037), (61, 60013), (64, 59989), (80, 59755),

Gene: GMA3_75 Start: 57620, Stop: 56823, Start Num: 11

Candidate Starts for GMA3_75:

(Start: 11 @57620 has 1 MA's), (18, 57515), (29, 57422), (48, 57200), (56, 57119), (66, 57014), (67, 57008), (73, 56921), (75, 56915), (80, 56834),

Gene: Gibbles_68 Start: 56757, Stop: 55996, Start Num: 13

Candidate Starts for Gibbles_68:

(1, 56847), (5, 56817), (6, 56799), (Start: 13 @56757 has 4 MA's), (15, 56688), (26, 56586), (27, 56583), (33, 56499), (35, 56481), (38, 56460), (39, 56451), (42, 56433), (45, 56412), (50, 56331), (57, 56274), (70, 56142), (72, 56118), (74, 56091), (76, 56076), (78, 56040), (79, 56034), (80, 56007), (81, 56001),

Gene: Gmala1_67 Start: 54450, Stop: 53653, Start Num: 9

Candidate Starts for Gmala1_67:

(9, 54450), (21, 54309), (25, 54273), (46, 54057), (55, 53961), (58, 53940), (61, 53925), (67, 53838), (74, 53748), (80, 53664),

Gene: GordDuk1_71 Start: 55008, Stop: 54211, Start Num: 9

Candidate Starts for GordDuk1_71:

(9, 55008), (20, 54879), (21, 54867), (25, 54831), (46, 54615), (58, 54498), (61, 54483), (67, 54396), (74, 54306), (80, 54222),

Gene: GordTnk2_72 Start: 55169, Stop: 54372, Start Num: 9

Candidate Starts for GordTnk2_72:

(9, 55169), (21, 55028), (25, 54992), (46, 54776), (58, 54659), (61, 54644), (67, 54557), (74, 54467), (80, 54383),

Gene: Jumbo_69 Start: 59172, Stop: 58372, Start Num: 11

Candidate Starts for Jumbo_69:

(Start: 11 @59172 has 1 MA's), (37, 58866), (43, 58824), (47, 58764), (55, 58686), (63, 58626), (67, 58563), (72, 58500), (74, 58470), (77, 58440), (80, 58386),

Gene: Kampe_71 Start: 57027, Stop: 56266, Start Num: 13

Candidate Starts for Kampe_71:

(1, 57117), (5, 57087), (6, 57069), (Start: 13 @57027 has 4 MA's), (15, 56958), (26, 56856), (27, 56853), (33, 56769), (35, 56751), (38, 56730), (39, 56721), (42, 56703), (45, 56682), (50, 56601), (57, 56544), (70, 56412), (72, 56388), (74, 56361), (76, 56346), (78, 56310), (79, 56304), (80, 56277), (81, 56271),

Gene: Mbo2_72 Start: 53083, Stop: 52283, Start Num: 10

Candidate Starts for Mbo2_72:

(3, 53146), (Start: 10 @53083 has 1 MA's), (17, 52990), (19, 52960), (24, 52900), (30, 52843), (34, 52786), (38, 52753), (39, 52744), (44, 52714), (49, 52642), (59, 52558), (60, 52549), (63, 52522), (65, 52489), (69, 52444), (73, 52381), (75, 52375), (80, 52294),

Gene: Orchid_70 Start: 57028, Stop: 56267, Start Num: 13

Candidate Starts for Orchid_70:

(1, 57118), (5, 57088), (6, 57070), (Start: 13 @57028 has 4 MA's), (15, 56959), (26, 56857), (27, 56854), (33, 56770), (35, 56752), (38, 56731), (39, 56722), (42, 56704), (45, 56683), (50, 56602), (57, 56545), (70, 56413), (72, 56389), (74, 56362), (76, 56347), (78, 56311), (79, 56305), (80, 56278), (81, 56272),

Gene: PatrickStar_71 Start: 57027, Stop: 56266, Start Num: 13

Candidate Starts for PatrickStar_71:

(1, 57117), (5, 57087), (6, 57069), (Start: 13 @57027 has 4 MA's), (15, 56958), (26, 56856), (27, 56853), (33, 56769), (35, 56751), (38, 56730), (39, 56721), (42, 56703), (45, 56682), (50, 56601), (57, 56544), (70, 56412), (72, 56388), (74, 56361), (76, 56346), (78, 56310), (79, 56304), (80, 56277), (81, 56271),

Gene: Reynauld_68 Start: 57456, Stop: 56647, Start Num: 10

Candidate Starts for Reynauld_68:

(Start: 10 @57456 has 1 MA's), (17, 57366), (19, 57336), (31, 57210), (32, 57171), (43, 57093), (49, 57018), (52, 56985), (53, 56964), (60, 56916), (73, 56745), (75, 56739), (80, 56658),

Gene: RobinSparkles_72 Start: 56946, Stop: 56164, Start Num: 8

Candidate Starts for RobinSparkles_72:

(Start: 8 @56946 has 1 MA's), (Start: 13 @56925 has 4 MA's), (15, 56856), (26, 56754), (27, 56751), (33, 56667), (35, 56649), (38, 56628), (39, 56619), (42, 56601), (45, 56580), (50, 56499), (57, 56442), (70, 56310), (72, 56286), (74, 56259), (76, 56244), (78, 56208), (79, 56202), (80, 56175), (81, 56169),

Gene: Trogglehumper_82 Start: 64380, Stop: 63535, Start Num: 7

Candidate Starts for Trogglehumper_82:

(2, 64422), (Start: 7 @64380 has 1 MA's), (16, 64272), (22, 64185), (23, 64179), (28, 64155), (36, 64032), (39, 64014), (45, 63975), (54, 63855), (55, 63849), (62, 63813), (68, 63711), (71, 63666), (73, 63639), (75, 63633),