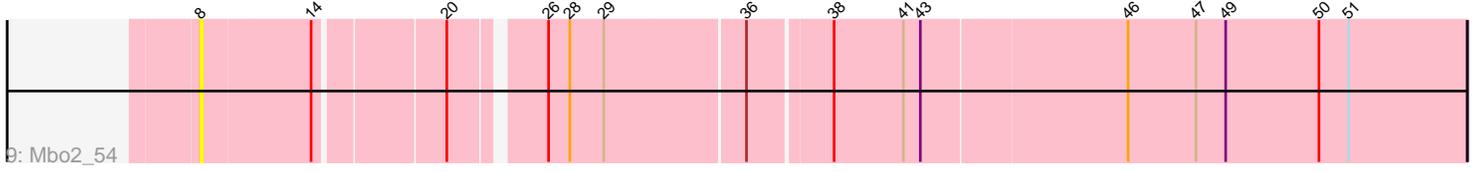
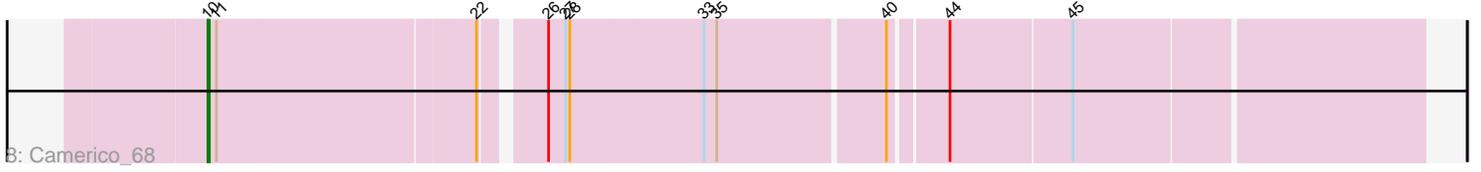
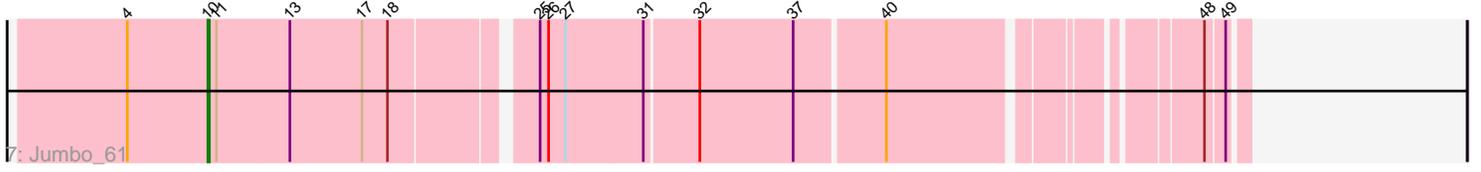
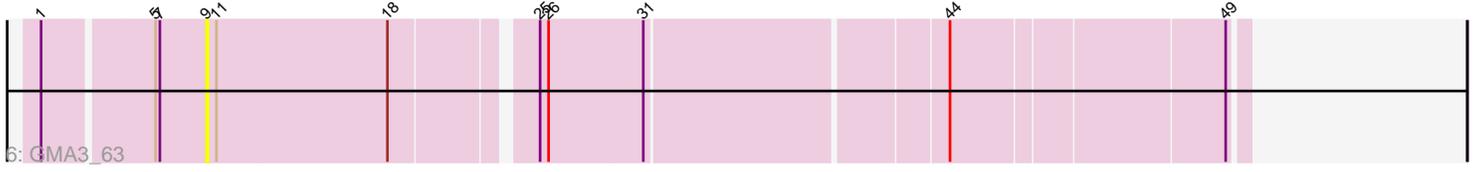
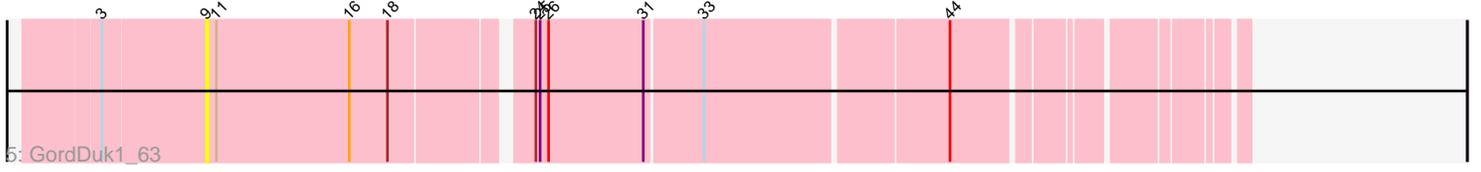
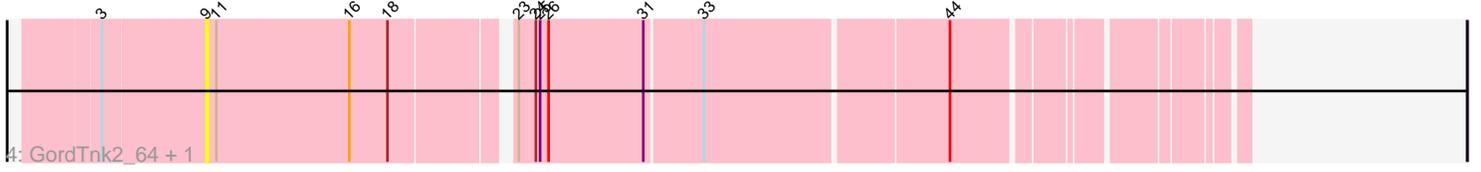
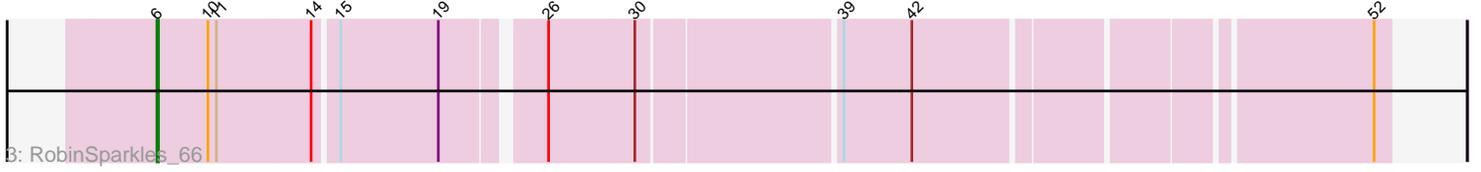
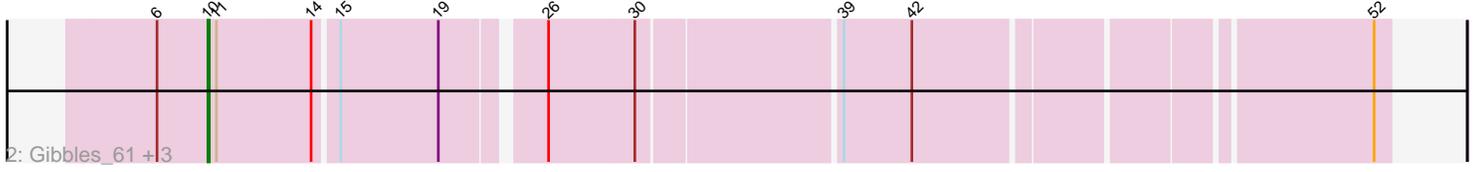
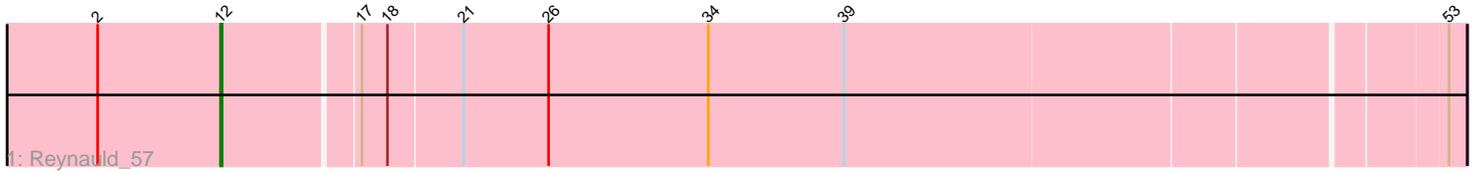


Pham 289882



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 289882 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289882 has 13 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Reynauld_57
- Track 2 : Gibbles_61, Orchid_62, Kampe_63, PatrickStar_63
- Track 3 : RobinSparkles_66
- Track 4 : GordTnk2_64, Gmala1_59
- Track 5 : GordDuk1_63
- Track 6 : GMA3_63
- Track 7 : Jumbo_61
- Track 8 : Camerico_68
- Track 9 : Mbo2_54

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

The start number called the most often in the published annotations is 10, it was called in 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Camerico_68, Gibbles_61, Jumbo_61, Kampe_63, Orchid_62, PatrickStar_63,

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

- RobinSparkles_66,

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

- GMA3_63, Gmala1_59, GordDuk1_63, GordTnk2_64, Mbo2_54, Reynauld_57,

Summary by start number:

Start 6:

- Found in 5 of 13 (38.5%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 20.0% of time when present
- Phage (with cluster) where this start called: RobinSparkles_66 (CX),

Start 8:

- Found in 1 of 13 (7.7%) of genes in pham

- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mbo2_54 (singleton),

Start 9:

- Found in 4 of 13 (30.8%) 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_63 (DF2), Gmala1_59 (DF1), GordDuk1_63 (DF1), GordTnk2_64 (DF1),

Start 10:

- Found in 7 of 13 (53.8%) of genes in pham
- Manual Annotations of this start: 6 of 8
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Camerico_68 (DF4), Gibbles_61 (CX), Jumbo_61 (DF3), Kampe_63 (CX), Orchid_62 (CX), PatrickStar_63 (CX),

Start 12:

- Found in 1 of 13 (7.7%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Reynauld_57 (CH),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, CH, DF4, DF1, DF3, DF2, CX,

Info for manual annotations of cluster CH:

- Start number 12 was manually annotated 1 time for cluster CH.

Info for manual annotations of cluster CX:

- Start number 6 was manually annotated 1 time for cluster CX.
- Start number 10 was manually annotated 4 times for cluster CX.

Info for manual annotations of cluster DF3:

- Start number 10 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DF4:

- Start number 10 was manually annotated 1 time for cluster DF4.

Gene Information:

Gene: Camerico_68 Start: 56949, Stop: 56140, Start Num: 10

Candidate Starts for Camerico_68:

(Start: 10 @56949 has 6 MA's), (11, 56943), (22, 56766), (26, 56730), (27, 56718), (28, 56715), (33, 56622), (35, 56613), (40, 56499), (44, 56463), (45, 56379),

Gene: GMA3_63 Start: 53080, Stop: 52397, Start Num: 9

Candidate Starts for GMA3_63:

(1, 53188), (5, 53116), (7, 53113), (9, 53080), (11, 53074), (18, 52954), (25, 52864), (26, 52858), (31, 52792), (44, 52591), (49, 52408),

Gene: Gibbles_61 Start: 53371, Stop: 52601, Start Num: 10

Candidate Starts for Gibbles_61:

(Start: 6 @53407 has 1 MA's), (Start: 10 @53371 has 6 MA's), (11, 53365), (14, 53299), (15, 53284), (19, 53215), (26, 53152), (30, 53092), (39, 52957), (42, 52909), (52, 52612),

Gene: Gmala1_59 Start: 50665, Stop: 50000, Start Num: 9

Candidate Starts for Gmala1_59:

(3, 50734), (9, 50665), (11, 50659), (16, 50566), (18, 50539), (23, 50464), (24, 50452), (25, 50449), (26, 50443), (31, 50377), (33, 50338), (44, 50173),

Gene: GordDuk1_63 Start: 51214, Stop: 50549, Start Num: 9

Candidate Starts for GordDuk1_63:

(3, 51283), (9, 51214), (11, 51208), (16, 51115), (18, 51088), (24, 51001), (25, 50998), (26, 50992), (31, 50926), (33, 50887), (44, 50722),

Gene: GordTnk2_64 Start: 51375, Stop: 50710, Start Num: 9

Candidate Starts for GordTnk2_64:

(3, 51444), (9, 51375), (11, 51369), (16, 51276), (18, 51249), (23, 51174), (24, 51162), (25, 51159), (26, 51153), (31, 51087), (33, 51048), (44, 50883),

Gene: Jumbo_61 Start: 55250, Stop: 54588, Start Num: 10

Candidate Starts for Jumbo_61:

(4, 55307), (Start: 10 @55250 has 6 MA's), (11, 55244), (13, 55193), (17, 55142), (18, 55124), (25, 55034), (26, 55028), (27, 55016), (31, 54962), (32, 54926), (37, 54860), (40, 54800), (48, 54611), (49, 54599),

Gene: Kampe_63 Start: 53354, Stop: 52584, Start Num: 10

Candidate Starts for Kampe_63:

(Start: 6 @53390 has 1 MA's), (Start: 10 @53354 has 6 MA's), (11, 53348), (14, 53282), (15, 53267), (19, 53198), (26, 53135), (30, 53075), (39, 52940), (42, 52892), (52, 52595),

Gene: Mbo2_54 Start: 44149, Stop: 43304, Start Num: 8

Candidate Starts for Mbo2_54:

(8, 44149), (14, 44074), (20, 43990), (26, 43933), (28, 43918), (29, 43894), (36, 43798), (38, 43744), (41, 43696), (43, 43684), (46, 43543), (47, 43495), (49, 43474), (50, 43408), (51, 43387),

Gene: Orchid_62 Start: 53355, Stop: 52585, Start Num: 10

Candidate Starts for Orchid_62:

(Start: 6 @53391 has 1 MA's), (Start: 10 @53355 has 6 MA's), (11, 53349), (14, 53283), (15, 53268), (19, 53199), (26, 53136), (30, 53076), (39, 52941), (42, 52893), (52, 52596),

Gene: PatrickStar_63 Start: 53354, Stop: 52584, Start Num: 10

Candidate Starts for PatrickStar_63:

(Start: 6 @53390 has 1 MA's), (Start: 10 @53354 has 6 MA's), (11, 53348), (14, 53282), (15, 53267), (19, 53198), (26, 53135), (30, 53075), (39, 52940), (42, 52892), (52, 52595),

Gene: Reynauld_57 Start: 51608, Stop: 50766, Start Num: 12

Candidate Starts for Reynauld_57:

(2, 51695), (Start: 12 @51608 has 1 MA's), (17, 51518), (18, 51500), (21, 51449), (26, 51389), (34, 51278), (39, 51182), (53, 50777),

Gene: RobinSparkles_66 Start: 53942, Stop: 53136, Start Num: 6

Candidate Starts for RobinSparkles_66:

(Start: 6 @53942 has 1 MA's), (Start: 10 @53906 has 6 MA's), (11, 53900), (14, 53834), (15, 53819), (19, 53750), (26, 53687), (30, 53627), (39, 53492), (42, 53444), (52, 53147),