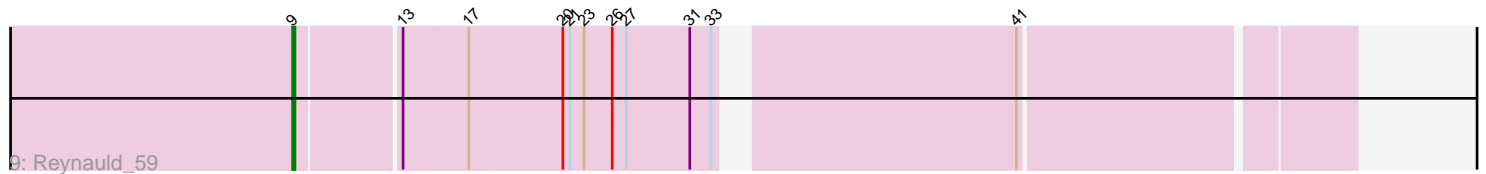
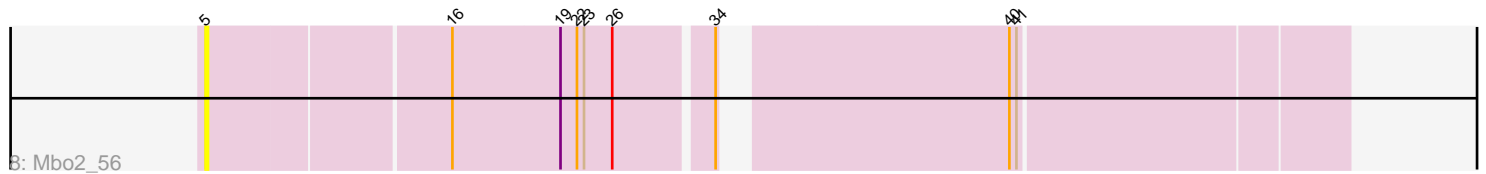
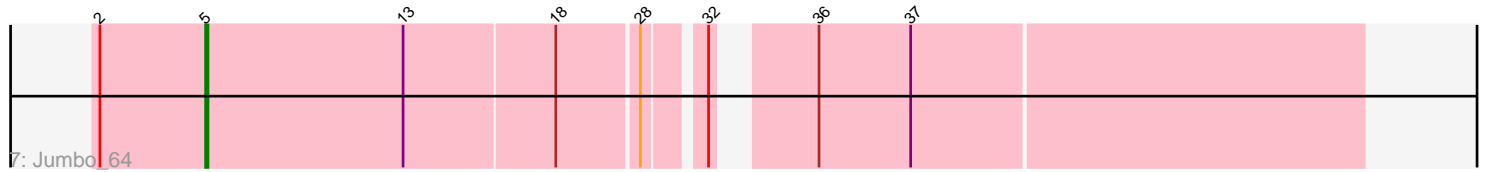
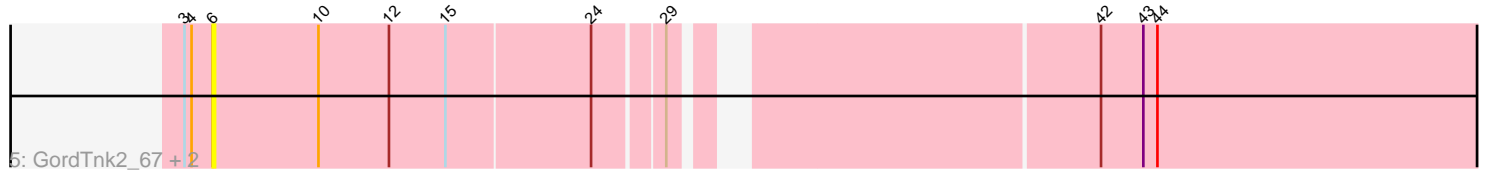
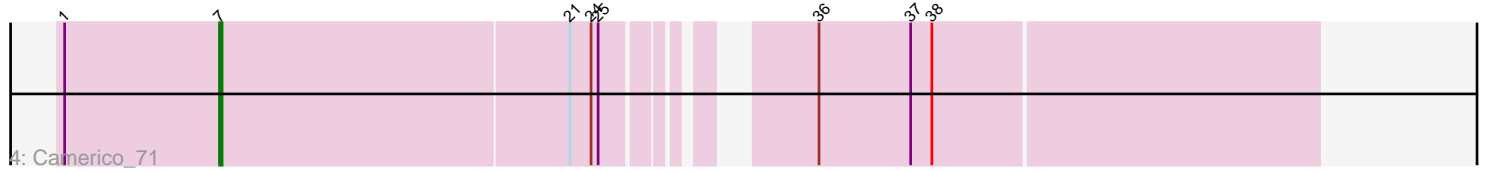
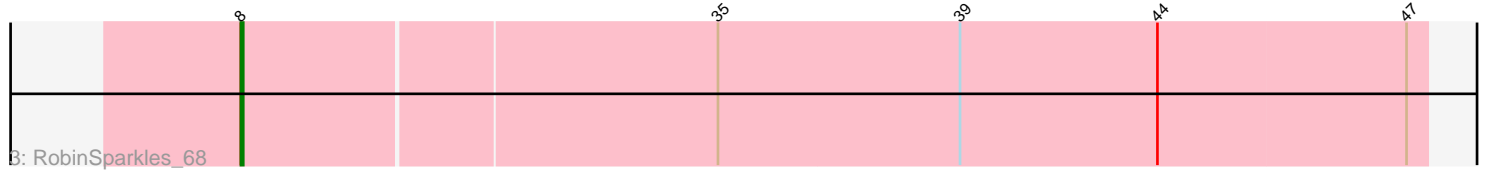
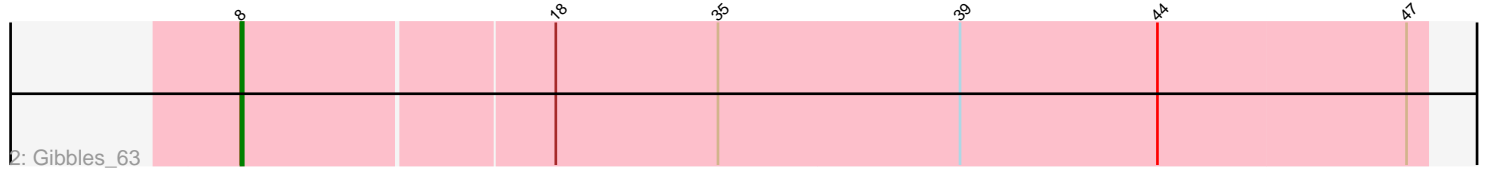
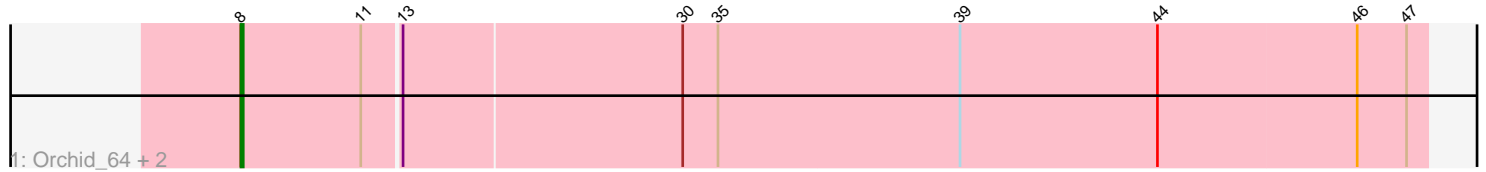


Pham 87269



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 87269 Report

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

Pham number 87269 has 13 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Orchid_64, PatrickStar_65, Kampe_65
- Track 2 : Gibbles_63
- Track 3 : RobinSparkles_68
- Track 4 : Camerico_71
- Track 5 : GordTnk2_67, GordDuk1_66, Gmala1_62
- Track 6 : GMA3_66
- Track 7 : Jumbo_64
- Track 8 : Mbo2_56
- Track 9 : Reynauld_59

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

The start number called the most often in the published annotations is 8, it was called in 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Gibbles_63, Kampe_65, Orchid_64, PatrickStar_65, RobinSparkles_68,

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

-

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

- Camerico_71, GMA3_66, Gmala1_62, GordDuk1_66, GordTnk2_67, Jumbo_64, Mbo2_56, Reynauld_59,

Summary by start number:

Start 5:

- Found in 2 of 13 (15.4%) 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: Jumbo_64 (DF3), Mbo2_56 (singleton),

Start 6:

- 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_66 (DF2), Gmala1_62 (DF1), GordDuk1_66 (DF1), GordTnk2_67 (DF1),

Start 7:

- 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: Camerico_71 (DF),

Start 8:

- Found in 5 of 13 (38.5%) of genes in pham
- Manual Annotations of this start: 5 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gibbles_63 (CX), Kampe_65 (CX), Orchid_64 (CX), PatrickStar_65 (CX), RobinSparkles_68 (CX),

Start 9:

- 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_59 (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 8 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster DF:

- Start number 7 was manually annotated 1 time for cluster DF.

Info for manual annotations of cluster DF3:

- Start number 5 was manually annotated 1 time for cluster DF3.

Gene Information:

Gene: Camerico_71 Start: 58754, Stop: 58323, Start Num: 7

Candidate Starts for Camerico_71:

(1, 58820), (Start: 7 @58754 has 1 MA's), (21, 58607), (24, 58598), (25, 58595), (36, 58532), (37, 58493), (38, 58484),

Gene: GMA3_66 Start: 54884, Stop: 54429, Start Num: 6

Candidate Starts for GMA3_66:

(6, 54884), (14, 54791), (20, 54737), (25, 54722), (37, 54617), (45, 54482),

Gene: Gibbles_63 Start: 54807, Stop: 54310, Start Num: 8

Candidate Starts for Gibbles_63:

(Start: 8 @54807 has 5 MA's), (18, 54678), (35, 54609), (39, 54507), (44, 54423), (47, 54318),

Gene: Gmala1_62 Start: 52421, Stop: 51909, Start Num: 6

Candidate Starts for Gmala1_62:

(3, 52433), (4, 52430), (6, 52421), (10, 52376), (12, 52346), (15, 52322), (24, 52262), (29, 52235), (42, 52076), (43, 52058), (44, 52052),

Gene: GordDuk1_66 Start: 52970, Stop: 52458, Start Num: 6

Candidate Starts for GordDuk1_66:

(3, 52982), (4, 52979), (6, 52970), (10, 52925), (12, 52895), (15, 52871), (24, 52811), (29, 52784), (42, 52625), (43, 52607), (44, 52601),

Gene: GordTnk2_67 Start: 53131, Stop: 52619, Start Num: 6

Candidate Starts for GordTnk2_67:

(3, 53143), (4, 53140), (6, 53131), (10, 53086), (12, 53056), (15, 53032), (24, 52972), (29, 52945), (42, 52786), (43, 52768), (44, 52762),

Gene: Jumbo_64 Start: 57024, Stop: 56566, Start Num: 5

Candidate Starts for Jumbo_64:

(2, 57069), (Start: 5 @57024 has 1 MA's), (13, 56940), (18, 56877), (28, 56844), (32, 56823), (36, 56793), (37, 56754),

Gene: Kampe_65 Start: 54685, Stop: 54188, Start Num: 8

Candidate Starts for Kampe_65:

(Start: 8 @54685 has 5 MA's), (11, 54634), (13, 54619), (30, 54502), (35, 54487), (39, 54385), (44, 54301), (46, 54217), (47, 54196),

Gene: Mbo2_56 Start: 45572, Stop: 45123, Start Num: 5

Candidate Starts for Mbo2_56:

(Start: 5 @45572 has 1 MA's), (16, 45473), (19, 45428), (22, 45422), (23, 45419), (26, 45407), (34, 45368), (40, 45260), (41, 45257),

Gene: Orchid_64 Start: 54686, Stop: 54189, Start Num: 8

Candidate Starts for Orchid_64:

(Start: 8 @54686 has 5 MA's), (11, 54635), (13, 54620), (30, 54503), (35, 54488), (39, 54386), (44, 54302), (46, 54218), (47, 54197),

Gene: PatrickStar_65 Start: 54685, Stop: 54188, Start Num: 8

Candidate Starts for PatrickStar_65:

(Start: 8 @54685 has 5 MA's), (11, 54634), (13, 54619), (30, 54502), (35, 54487), (39, 54385), (44, 54301), (46, 54217), (47, 54196),

Gene: Reynauld_59 Start: 52955, Stop: 52536, Start Num: 9

Candidate Starts for Reynauld_59:

(Start: 9 @52955 has 1 MA's), (13, 52913), (17, 52886), (20, 52847), (21, 52844), (23, 52838), (26, 52826), (27, 52820), (31, 52793), (33, 52784), (41, 52670),

Gene: RobinSparkles_68 Start: 55340, Stop: 54843, Start Num: 8

Candidate Starts for RobinSparkles_68:

(Start: 8 @55340 has 5 MA's), (35, 55142), (39, 55040), (44, 54956), (47, 54851),