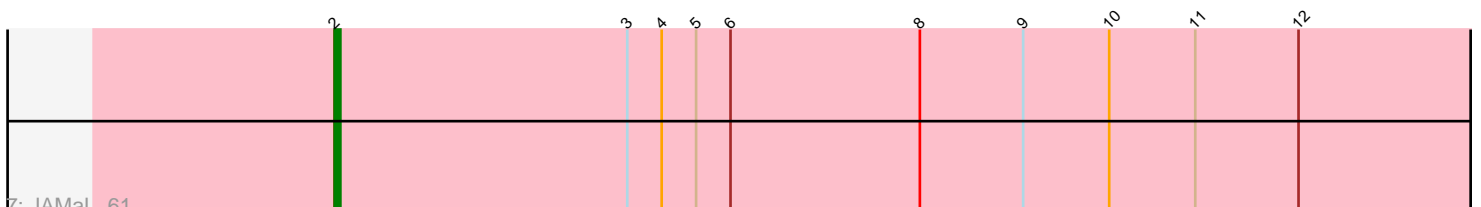
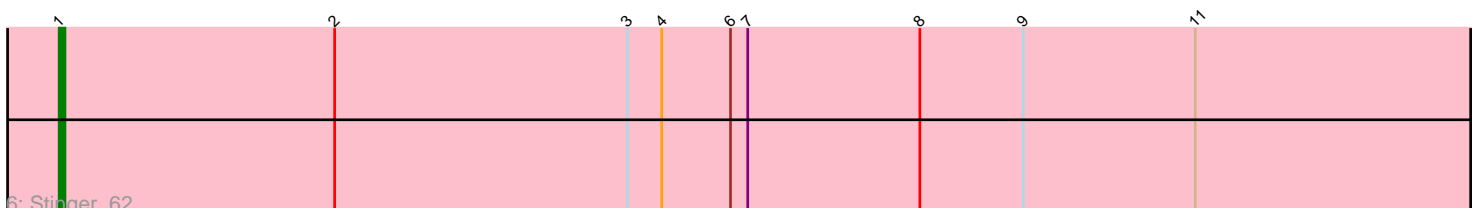
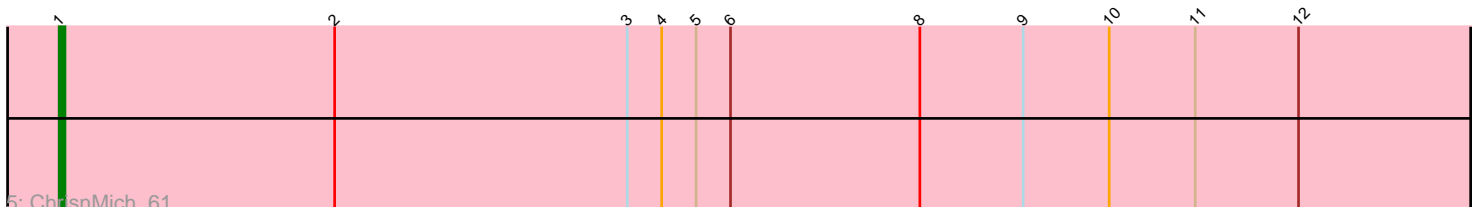
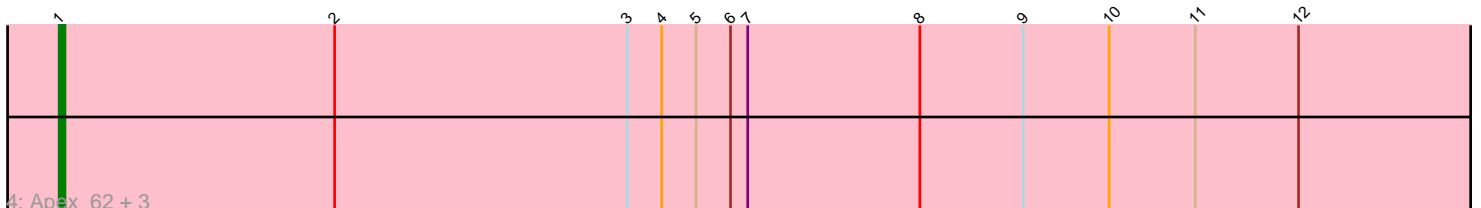
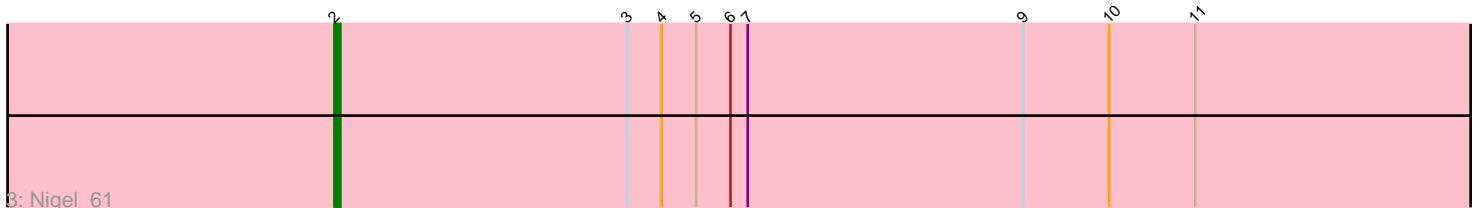
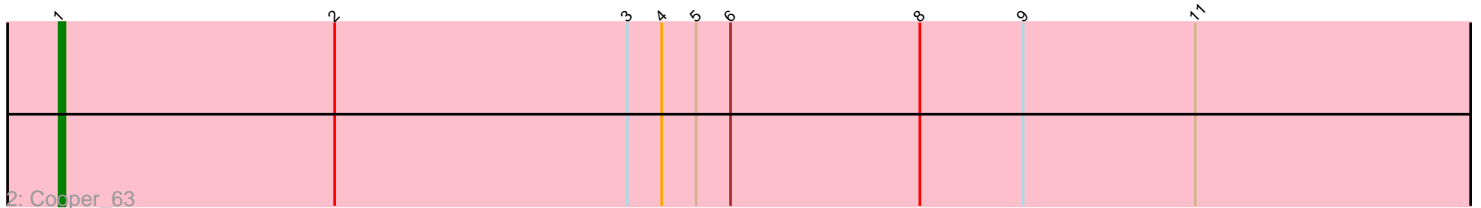
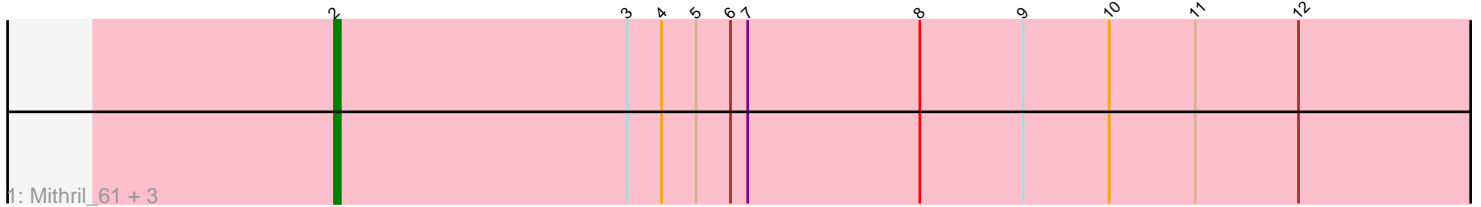


Pham 164046



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 164046 Report

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

Pham number 164046 has 13 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Mithril_61, Waleliano_61, VioletZ_63, BrownCNA_63
- Track 2 : Cooper_63
- Track 3 : Nigel_61
- Track 4 : Apex_62, Hydro_61, Mudslide_61, Austelle_62
- Track 5 : ChrisnMich_61
- Track 6 : Stinger_62
- Track 7 : JAMaL_61

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

The start number called the most often in the published annotations is 1, it was called in 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Apex_62, Austelle_62, ChrisnMich_61, Cooper_63, Hydro_61, Mudslide_61, Stinger_62,

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

-

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

- BrownCNA_63, JAMaL_61, Mithril_61, Nigel_61, VioletZ_63, Waleliano_61,

Summary by start number:

Start 1:

- Found in 7 of 13 (53.8%) of genes in pham
- Manual Annotations of this start: 7 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apex_62 (B4), Austelle_62 (B4), ChrisnMich_61 (B4), Cooper_63 (B4), Hydro_61 (B4), Mudslide_61 (B4), Stinger_62 (B4),

Start 2:

- Found in 13 of 13 (100.0%) of genes in pham
- Manual Annotations of this start: 6 of 13
- Called 46.2% of time when present
- Phage (with cluster) where this start called: BrownCNA_63 (B4), JAMaL_61 (B4), Mithril_61 (B4), Nigel_61 (B4), VioletZ_63 (B4), Waleliano_61 (B4),

Summary by clusters:

There is one cluster represented in this pham: B4

Info for manual annotations of cluster B4:

- Start number 1 was manually annotated 7 times for cluster B4.
- Start number 2 was manually annotated 6 times for cluster B4.

Gene Information:

Gene: Apex_62 Start: 58091, Stop: 58408, Start Num: 1

Candidate Starts for Apex_62:

(Start: 1 @58091 has 7 MA's), (Start: 2 @58139 has 6 MA's), (3, 58190), (4, 58196), (5, 58202), (6, 58208), (7, 58211), (8, 58241), (9, 58259), (10, 58274), (11, 58289), (12, 58307),

Gene: Austelle_62 Start: 58545, Stop: 58862, Start Num: 1

Candidate Starts for Austelle_62:

(Start: 1 @58545 has 7 MA's), (Start: 2 @58593 has 6 MA's), (3, 58644), (4, 58650), (5, 58656), (6, 58662), (7, 58665), (8, 58695), (9, 58713), (10, 58728), (11, 58743), (12, 58761),

Gene: BrownCNA_63 Start: 58302, Stop: 58568, Start Num: 2

Candidate Starts for BrownCNA_63:

(Start: 2 @58302 has 6 MA's), (3, 58353), (4, 58359), (5, 58365), (6, 58371), (7, 58374), (8, 58404), (9, 58422), (10, 58437), (11, 58452), (12, 58470),

Gene: ChrisnMich_61 Start: 56895, Stop: 57212, Start Num: 1

Candidate Starts for ChrisnMich_61:

(Start: 1 @56895 has 7 MA's), (Start: 2 @56943 has 6 MA's), (3, 56994), (4, 57000), (5, 57006), (6, 57012), (8, 57045), (9, 57063), (10, 57078), (11, 57093), (12, 57111),

Gene: Cooper_63 Start: 57347, Stop: 57664, Start Num: 1

Candidate Starts for Cooper_63:

(Start: 1 @57347 has 7 MA's), (Start: 2 @57395 has 6 MA's), (3, 57446), (4, 57452), (5, 57458), (6, 57464), (8, 57497), (9, 57515), (11, 57545),

Gene: Hydro_61 Start: 57932, Stop: 58249, Start Num: 1

Candidate Starts for Hydro_61:

(Start: 1 @57932 has 7 MA's), (Start: 2 @57980 has 6 MA's), (3, 58031), (4, 58037), (5, 58043), (6, 58049), (7, 58052), (8, 58082), (9, 58100), (10, 58115), (11, 58130), (12, 58148),

Gene: JAMaL_61 Start: 58031, Stop: 58300, Start Num: 2

Candidate Starts for JAMaL_61:

(Start: 2 @58031 has 6 MA's), (3, 58082), (4, 58088), (5, 58094), (6, 58100), (8, 58133), (9, 58151), (10, 58166), (11, 58181), (12, 58199),

Gene: Mithril_61 Start: 58157, Stop: 58423, Start Num: 2

Candidate Starts for Mithril_61:

(Start: 2 @58157 has 6 MA's), (3, 58208), (4, 58214), (5, 58220), (6, 58226), (7, 58229), (8, 58259), (9, 58277), (10, 58292), (11, 58307), (12, 58325),

Gene: Mudslide_61 Start: 58184, Stop: 58498, Start Num: 1

Candidate Starts for Mudslide_61:

(Start: 1 @58184 has 7 MA's), (Start: 2 @58232 has 6 MA's), (3, 58283), (4, 58289), (5, 58295), (6, 58301), (7, 58304), (8, 58334), (9, 58352), (10, 58367), (11, 58382), (12, 58400),

Gene: Nigel_61 Start: 57023, Stop: 57292, Start Num: 2

Candidate Starts for Nigel_61:

(Start: 2 @57023 has 6 MA's), (3, 57074), (4, 57080), (5, 57086), (6, 57092), (7, 57095), (9, 57143), (10, 57158), (11, 57173),

Gene: Stinger_62 Start: 56901, Stop: 57218, Start Num: 1

Candidate Starts for Stinger_62:

(Start: 1 @56901 has 7 MA's), (Start: 2 @56949 has 6 MA's), (3, 57000), (4, 57006), (6, 57018), (7, 57021), (8, 57051), (9, 57069), (11, 57099),

Gene: VioletZ_63 Start: 58094, Stop: 58360, Start Num: 2

Candidate Starts for VioletZ_63:

(Start: 2 @58094 has 6 MA's), (3, 58145), (4, 58151), (5, 58157), (6, 58163), (7, 58166), (8, 58196), (9, 58214), (10, 58229), (11, 58244), (12, 58262),

Gene: Waleliano_61 Start: 58034, Stop: 58300, Start Num: 2

Candidate Starts for Waleliano_61:

(Start: 2 @58034 has 6 MA's), (3, 58085), (4, 58091), (5, 58097), (6, 58103), (7, 58106), (8, 58136), (9, 58154), (10, 58169), (11, 58184), (12, 58202),