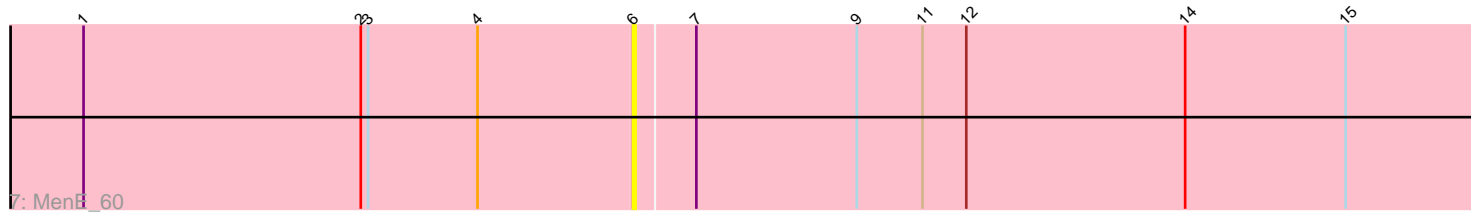
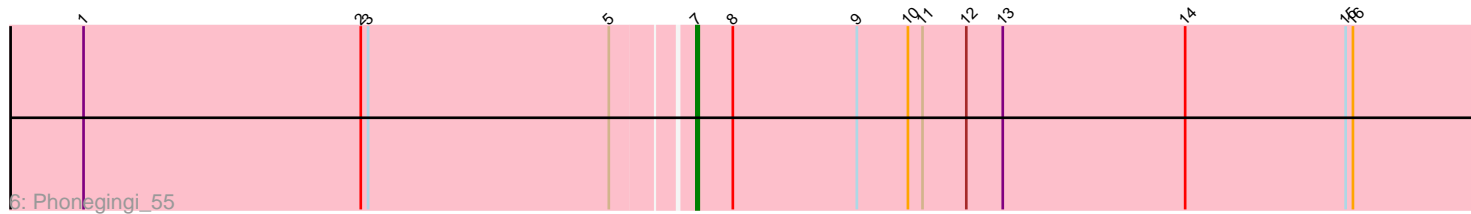
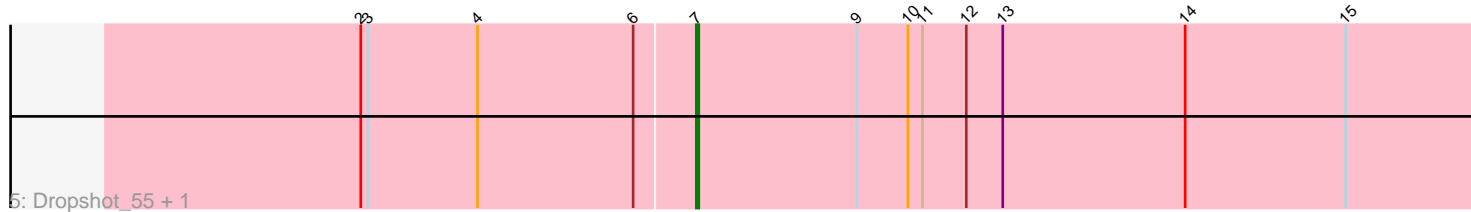
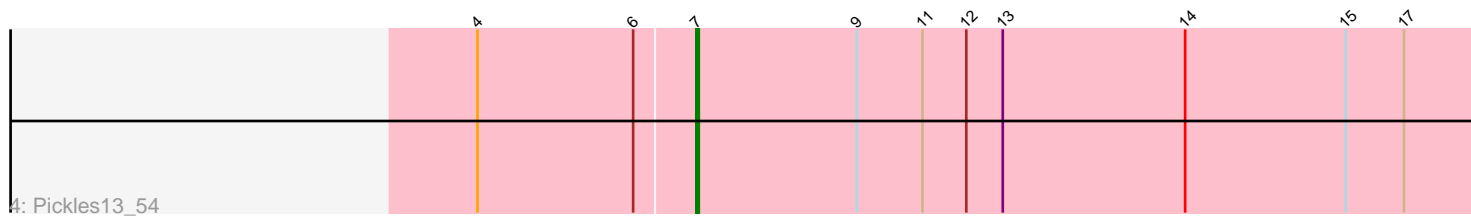
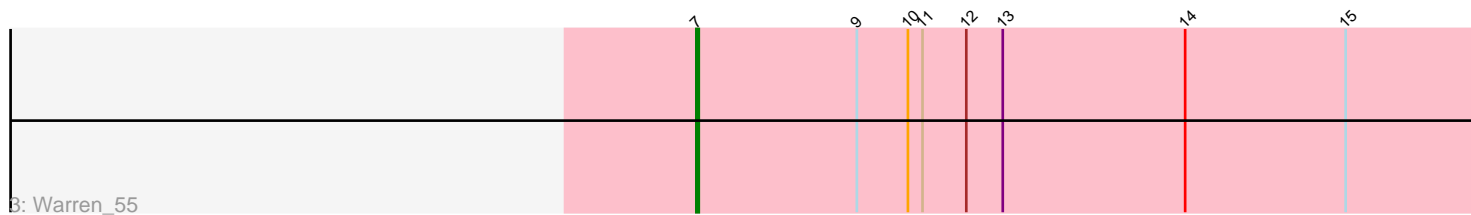
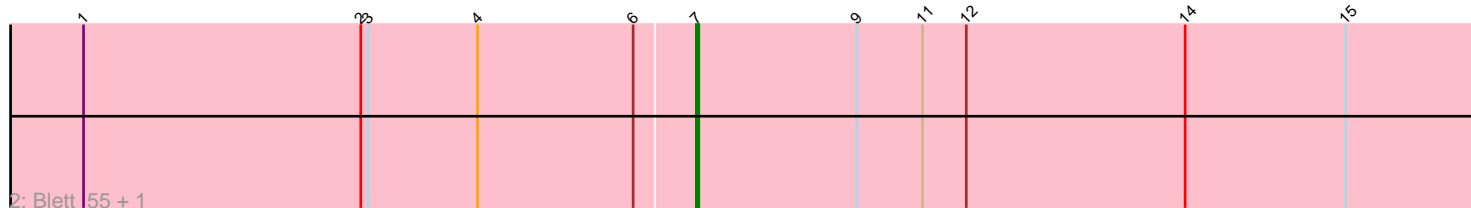
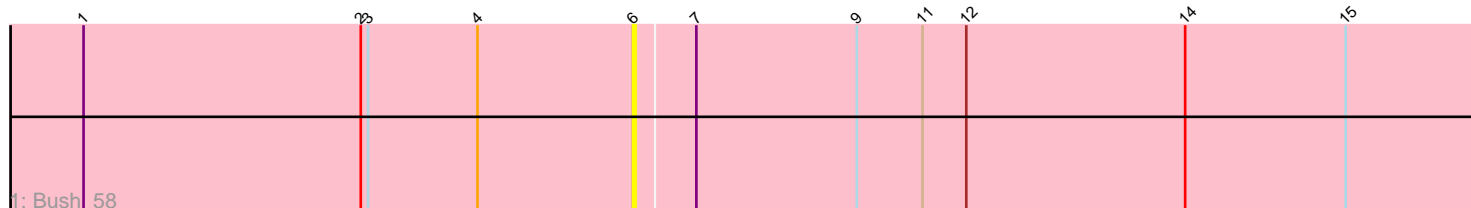


Pham 88022



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 88022 Report

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

Pham number 88022 has 9 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Bush_58
- Track 2 : Blett_55, Antuna_57
- Track 3 : Warren_55
- Track 4 : Pickles13_54
- Track 5 : Dropshot_55, Appa_55
- Track 6 : Phonegingi_55
- Track 7 : MenE_60

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

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

Genes that call this "Most Annotated" start:

- Antuna_57, Appa_55, Blett_55, Dropshot_55, Phonegingi_55, Pickles13_54, Warren_55,

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

- Bush_58, MenE_60,

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

•

Summary by start number:

Start 6:

- Found in 7 of 9 (77.8%) of genes in pham
- No Manual Annotations of this start.
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Bush_58 (GA), MenE_60 (GA),

Start 7:

- Found in 9 of 9 (100.0%) of genes in pham
- Manual Annotations of this start: 7 of 7

- Called 77.8% of time when present
- Phage (with cluster) where this start called: Antuna_57 (GA), Appa_55 (GA), Blett_55 (GA), Dropshot_55 (GA), Phonegingi_55 (GA), Pickles13_54 (GA), Warren_55 (GA),

Summary by clusters:

There is one cluster represented in this pham: GA

Info for manual annotations of cluster GA:

- Start number 7 was manually annotated 7 times for cluster GA.

Gene Information:

Gene: Antuna_57 Start: 33402, Stop: 33728, Start Num: 7

Candidate Starts for Antuna_57:

(1, 33153), (2, 33267), (3, 33270), (4, 33315), (6, 33378), (Start: 7 @33402 has 7 MA's), (9, 33468), (11, 33495), (12, 33513), (14, 33603), (15, 33669),

Gene: Appa_55 Start: 33167, Stop: 33493, Start Num: 7

Candidate Starts for Appa_55:

(2, 33032), (3, 33035), (4, 33080), (6, 33143), (Start: 7 @33167 has 7 MA's), (9, 33233), (10, 33254), (11, 33260), (12, 33278), (13, 33293), (14, 33368), (15, 33434),

Gene: Blett_55 Start: 33352, Stop: 33678, Start Num: 7

Candidate Starts for Blett_55:

(1, 33103), (2, 33217), (3, 33220), (4, 33265), (6, 33328), (Start: 7 @33352 has 7 MA's), (9, 33418), (11, 33445), (12, 33463), (14, 33553), (15, 33619),

Gene: Bush_58 Start: 33277, Stop: 33627, Start Num: 6

Candidate Starts for Bush_58:

(1, 33052), (2, 33166), (3, 33169), (4, 33214), (6, 33277), (Start: 7 @33301 has 7 MA's), (9, 33367), (11, 33394), (12, 33412), (14, 33502), (15, 33568),

Gene: Dropshot_55 Start: 33002, Stop: 33328, Start Num: 7

Candidate Starts for Dropshot_55:

(2, 32867), (3, 32870), (4, 32915), (6, 32978), (Start: 7 @33002 has 7 MA's), (9, 33068), (10, 33089), (11, 33095), (12, 33113), (13, 33128), (14, 33203), (15, 33269),

Gene: MenE_60 Start: 33400, Stop: 33750, Start Num: 6

Candidate Starts for MenE_60:

(1, 33175), (2, 33289), (3, 33292), (4, 33337), (6, 33400), (Start: 7 @33424 has 7 MA's), (9, 33490), (11, 33517), (12, 33535), (14, 33625), (15, 33691),

Gene: Phonegingi_55 Start: 33200, Stop: 33526, Start Num: 7

Candidate Starts for Phonegingi_55:

(1, 32954), (2, 33068), (3, 33071), (5, 33170), (Start: 7 @33200 has 7 MA's), (8, 33215), (9, 33266), (10, 33287), (11, 33293), (12, 33311), (13, 33326), (14, 33401), (15, 33467), (16, 33470),

Gene: Pickles13_54 Start: 33502, Stop: 33828, Start Num: 7

Candidate Starts for Pickles13_54:

(4, 33415), (6, 33478), (Start: 7 @33502 has 7 MA's), (9, 33568), (11, 33595), (12, 33613), (13, 33628), (14, 33703), (15, 33769), (17, 33793),

Gene: Warren_55 Start: 33224, Stop: 33550, Start Num: 7

Candidate Starts for Warren_55:

(Start: 7 @33224 has 7 MA's), (9, 33290), (10, 33311), (11, 33317), (12, 33335), (13, 33350), (14, 33425), (15, 33491),