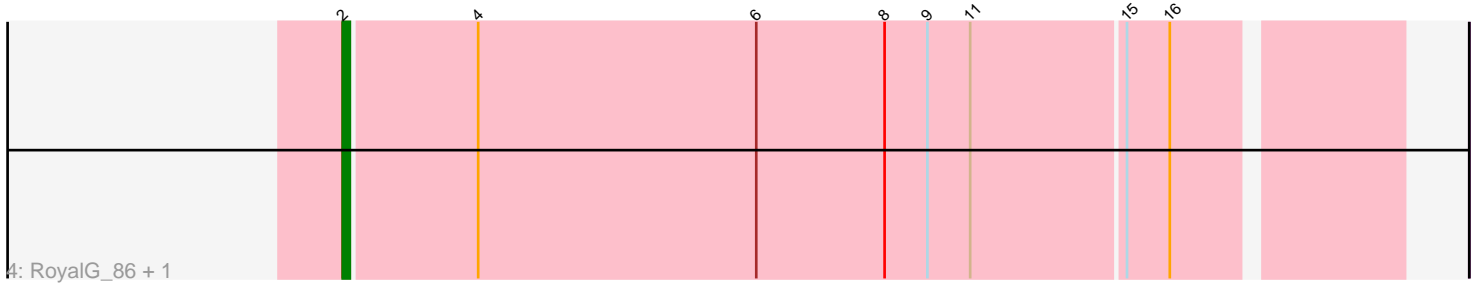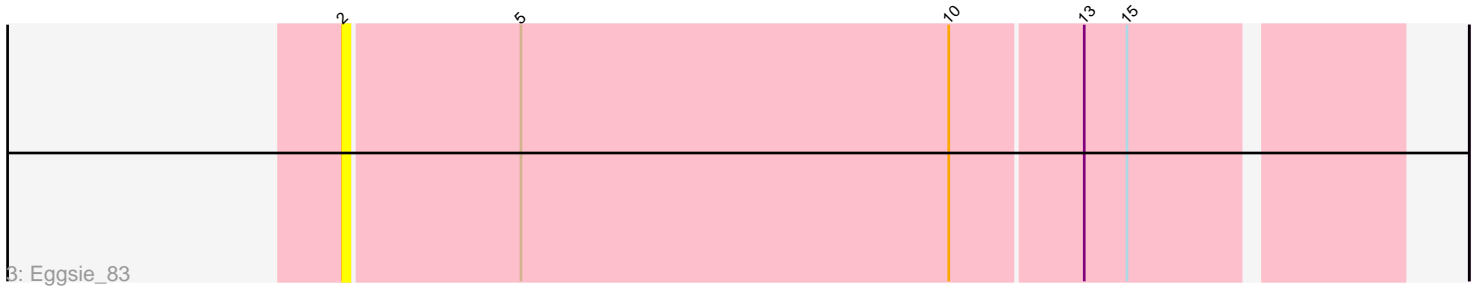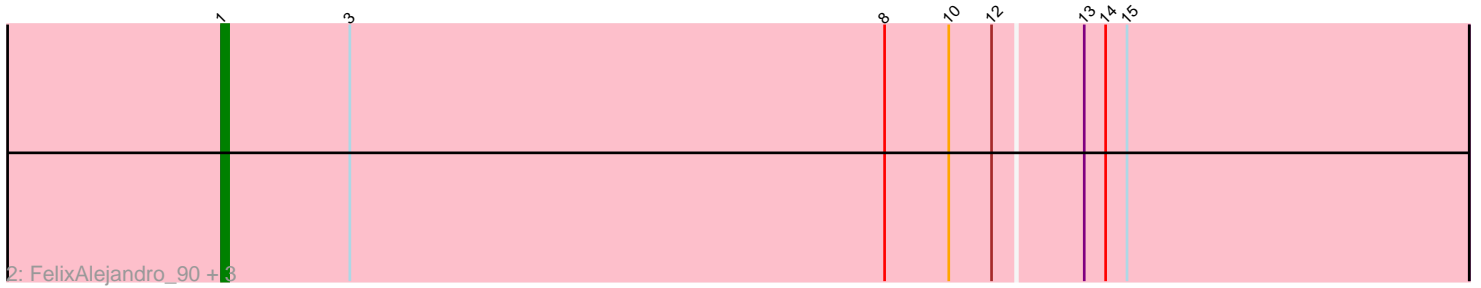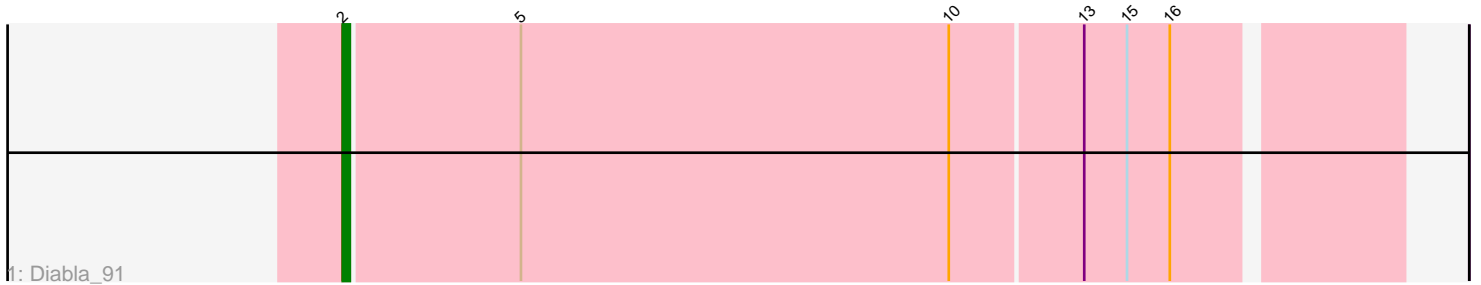# Pham 170560

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 170560 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170560 has 9 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Diabla_91
• Track 2 : FelixAlejandro_90, Butterball_88, Boneham_89, BirksAndSocks_90
• Track 3 : Eggsie_83
• Track 4 : RoyalG_86, SteveFrench_85
• Track 5 : Linetti_88

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 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BirksAndSocks_90, Boneham_89, Butterball_88, FelixAlejandro_90, Linetti_88,

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

Genes that do not have the "Most Annotated" start:
• Diabla_91, Eggsie_83, RoyalG_86, SteveFrench_85,

Summary by start number:

Start 1:
• Found in 5 of 9 (55.6%) 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: BirksAndSocks_90 (CS2), Boneham_89 (CS2), Butterball_88 (CS2), FelixAlejandro_90 (CS2), Linetti_88 (CS2),

Start 2:
• Found in 4 of 9 (44.4%) of genes in pham
• Manual Annotations of this start: 3 of 8
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Diabla_91 (CS2), Eggsie_83 (CS2), RoyalG_86 (CS2), SteveFrench_85 (CS2),

Summary by clusters:

There is one cluster represented in this pham: CS2

Info for manual annotations of cluster CS2:
•Start number 1 was manually annotated 5 times for cluster CS2.
•Start number 2 was manually annotated 3 times for cluster CS2.

Gene Information:
Gene: BirksAndSocks_90 Start: 65343, Stop: 65170, Start Num: 1
Candidate Starts for BirksAndSocks_90:
(Start: 1 @65343 has 5 MA's), (3, 65325), (8, 65250), (10, 65241), (12, 65235), (13, 65223), (14, 65220), (15, 65217),

Gene: Boneham_89 Start: 65268, Stop: 65095, Start Num: 1
Candidate Starts for Boneham_89:
(Start: 1 @65268 has 5 MA's), (3, 65250), (8, 65175), (10, 65166), (12, 65160), (13, 65148), (14, 65145), (15, 65142),

Gene: Butterball_88 Start: 65273, Stop: 65100, Start Num: 1
Candidate Starts for Butterball_88:
(Start: 1 @65273 has 5 MA's), (3, 65255), (8, 65180), (10, 65171), (12, 65165), (13, 65153), (14, 65150), (15, 65147),

Gene: Diabla_91 Start: 65156, Stop: 65013, Start Num: 2
Candidate Starts for Diabla_91:
(Start: 2 @65156 has 3 MA's), (5, 65132), (10, 65072), (13, 65054), (15, 65048), (16, 65042),

Gene: Eggsie_83 Start: 62599, Stop: 62456, Start Num: 2
Candidate Starts for Eggsie_83:
(Start: 2 @62599 has 3 MA's), (5, 62575), (10, 62515), (13, 62497), (15, 62491),

Gene: FelixAlejandro_90 Start: 65789, Stop: 65616, Start Num: 1
Candidate Starts for FelixAlejandro_90:
(Start: 1 @65789 has 5 MA's), (3, 65771), (8, 65696), (10, 65687), (12, 65681), (13, 65669), (14, 65666), (15, 65663),

Gene: Linetti_88 Start: 65934, Stop: 65761, Start Num: 1
Candidate Starts for Linetti_88:
(Start: 1 @65934 has 5 MA's), (3, 65916), (7, 65853), (8, 65841), (10, 65832), (12, 65826), (13, 65814), (14, 65811), (15, 65808), (17, 65775),

Gene: RoyalG_86 Start: 63907, Stop: 63764, Start Num: 2
Candidate Starts for RoyalG_86:
(Start: 2 @63907 has 3 MA's), (4, 63889), (6, 63850), (8, 63832), (9, 63826), (11, 63820), (15, 63799), (16, 63793),

Gene: SteveFrench_85 Start: 64147, Stop: 64004, Start Num: 2
Candidate Starts for SteveFrench_85:
(Start: 2 @64147 has 3 MA's), (4, 64129), (6, 64090), (8, 64072), (9, 64066), (11, 64060), (15, 64039), (16, 64033),