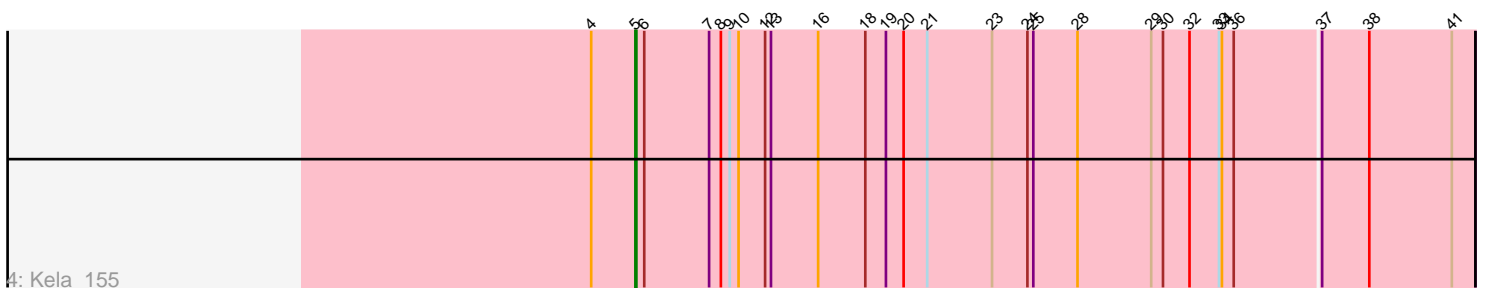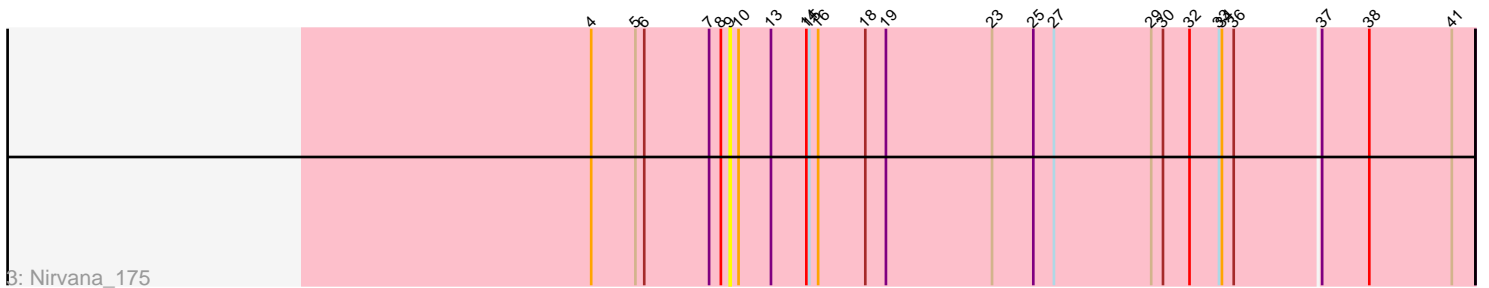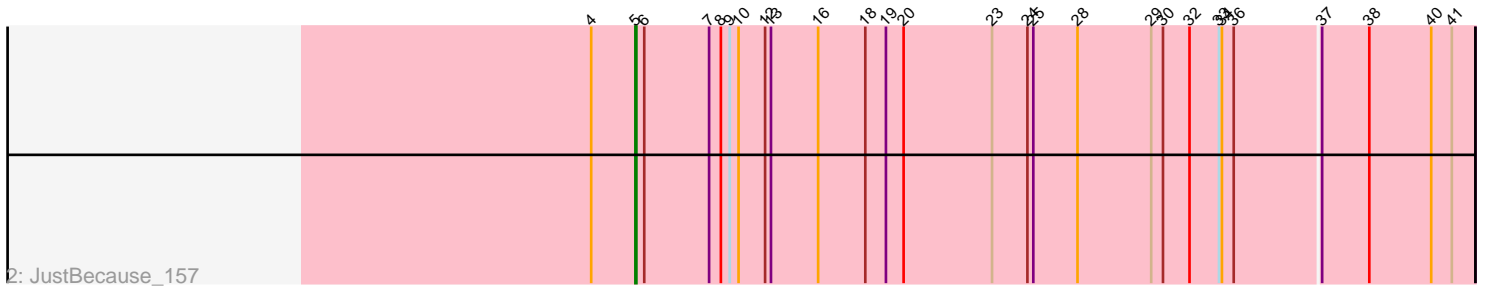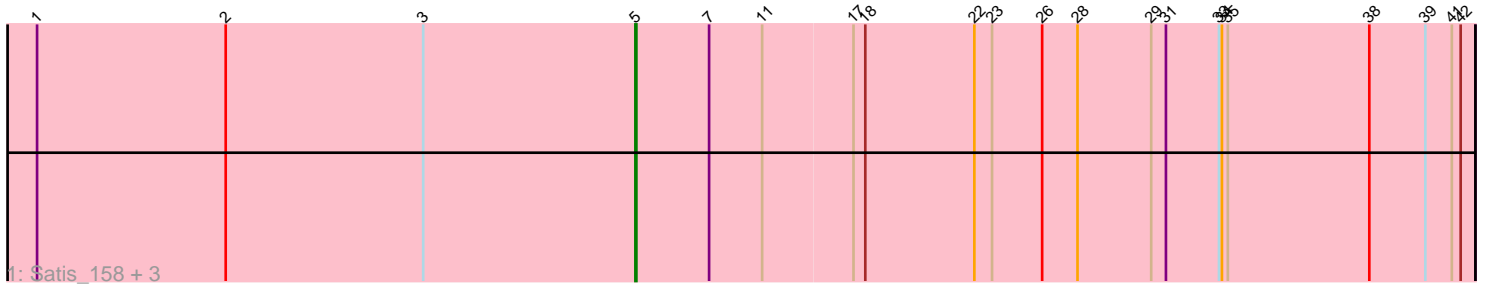# Pham 197117

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 197117 Report

This analysis was run 12/09/24 on database version 580.

Pham number 197117 has 8 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Satis_158, Quantum_157, EhyElimayoE_159, Kradal_158
• Track 2 : JustBecause_157
• Track 3 : Nirvana_175
• Track 4 : Kela_155
• Track 5 : Frankenweenie_171

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

The start number called the most often in the published annotations is 5, it was called in 7 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• EhyElimayoE_159, Frankenweenie_171, JustBecause_157, Kela_155, Kradal_158, Quantum_157, Satis_158,

Genes that have the "Most Annotated" start but do not call it:
• Nirvana_175,

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

Summary by start number:

Start 5:
• Found in 8 of 8 (100.0%) of genes in pham
• Manual Annotations of this start: 7 of 7
• Called 87.5% of time when present
• Phage (with cluster) where this start called: EhyElimayoE_159 (BM), Frankenweenie_171 (BM), JustBecause_157 (BM), Kela_155 (BM), Kradal_158 (BM), Quantum_157 (BM), Satis_158 (BM),

Start 9:
• Found in 4 of 8 (50.0%) of genes in pham
• No Manual Annotations of this start.

• Called 25.0% of time when present
• Phage (with cluster) where this start called: Nirvana_175 (BM),

Summary by clusters:

There is one cluster represented in this pham: BM

Info for manual annotations of cluster BM:
•Start number 5 was manually annotated 7 times for cluster BM.

Gene Information:

Gene: EhyElimayoE_159 Start: 104778, Stop: 105629, Start Num: 5
Candidate Starts for EhyElimayoE_159:
(1, 104169), (2, 104361), (3, 104562), (Start: 5 @104778 has 7 MA's), (7, 104853), (11, 104907), (17, 104997), (18, 105009), (22, 105120), (23, 105138), (26, 105189), (28, 105225), (29, 105300), (31, 105315), (33, 105369), (34, 105372), (35, 105378), (38, 105522), (39, 105579), (41, 105606), (42, 105615),

Gene: Frankenweenie_171 Start: 112935, Stop: 113783, Start Num: 5
Candidate Starts for Frankenweenie_171:
(4, 112890), (Start: 5 @112935 has 7 MA's), (6, 112944), (7, 113010), (8, 113022), (9, 113031), (10, 113040), (12, 113067), (13, 113073), (16, 113121), (18, 113169), (19, 113190), (20, 113208), (23, 113298), (24, 113334), (25, 113340), (28, 113385), (29, 113460), (30, 113472), (32, 113499), (33, 113529), (34, 113532), (36, 113544), (37, 113628), (38, 113676), (41, 113760),

Gene: JustBecause_157 Start: 101920, Stop: 102768, Start Num: 5
Candidate Starts for JustBecause_157:
(4, 101875), (Start: 5 @101920 has 7 MA's), (6, 101929), (7, 101995), (8, 102007), (9, 102016), (10, 102025), (12, 102052), (13, 102058), (16, 102106), (18, 102154), (19, 102175), (20, 102193), (23, 102283), (24, 102319), (25, 102325), (28, 102370), (29, 102445), (30, 102457), (32, 102484), (33, 102514), (34, 102517), (36, 102529), (37, 102613), (38, 102661), (40, 102724), (41, 102745),

Gene: Kela_155 Start: 101794, Stop: 102642, Start Num: 5
Candidate Starts for Kela_155:
(4, 101749), (Start: 5 @101794 has 7 MA's), (6, 101803), (7, 101869), (8, 101881), (9, 101890), (10, 101899), (12, 101926), (13, 101932), (16, 101980), (18, 102028), (19, 102049), (20, 102067), (21, 102091), (23, 102157), (24, 102193), (25, 102199), (28, 102244), (29, 102319), (30, 102331), (32, 102358), (33, 102388), (34, 102391), (36, 102403), (37, 102487), (38, 102535), (41, 102619),

Gene: Kradal_158 Start: 104775, Stop: 105626, Start Num: 5
Candidate Starts for Kradal_158:
(1, 104166), (2, 104358), (3, 104559), (Start: 5 @104775 has 7 MA's), (7, 104850), (11, 104904), (17, 104994), (18, 105006), (22, 105117), (23, 105135), (26, 105186), (28, 105222), (29, 105297), (31, 105312), (33, 105366), (34, 105369), (35, 105375), (38, 105519), (39, 105576), (41, 105603), (42, 105612),

Gene: Nirvana_175 Start: 111442, Stop: 112194, Start Num: 9
Candidate Starts for Nirvana_175:
(4, 111301), (Start: 5 @111346 has 7 MA's), (6, 111355), (7, 111421), (8, 111433), (9, 111442), (10, 111451), (13, 111484), (14, 111520), (15, 111523), (16, 111532), (18, 111580), (19, 111601), (23,

111709), (25, 111751), (27, 111772), (29, 111871), (30, 111883), (32, 111910), (33, 111940), (34, 111943), (36, 111955), (37, 112039), (38, 112087), (41, 112171),

Gene: Quantum_157 Start: 104775, Stop: 105626, Start Num: 5
Candidate Starts for Quantum_157:
(1, 104166), (2, 104358), (3, 104559), (Start: 5 @104775 has 7 MA's), (7, 104850), (11, 104904), (17, 104994), (18, 105006), (22, 105117), (23, 105135), (26, 105186), (28, 105222), (29, 105297), (31, 105312), (33, 105366), (34, 105369), (35, 105375), (38, 105519), (39, 105576), (41, 105603), (42, 105612),

Gene: Satis_158 Start: 104771, Stop: 105622, Start Num: 5
Candidate Starts for Satis_158:
(1, 104162), (2, 104354), (3, 104555), (Start: 5 @104771 has 7 MA's), (7, 104846), (11, 104900), (17, 104990), (18, 105002), (22, 105113), (23, 105131), (26, 105182), (28, 105218), (29, 105293), (31, 105308), (33, 105362), (34, 105365), (35, 105371), (38, 105515), (39, 105572), (41, 105599), (42, 105608),