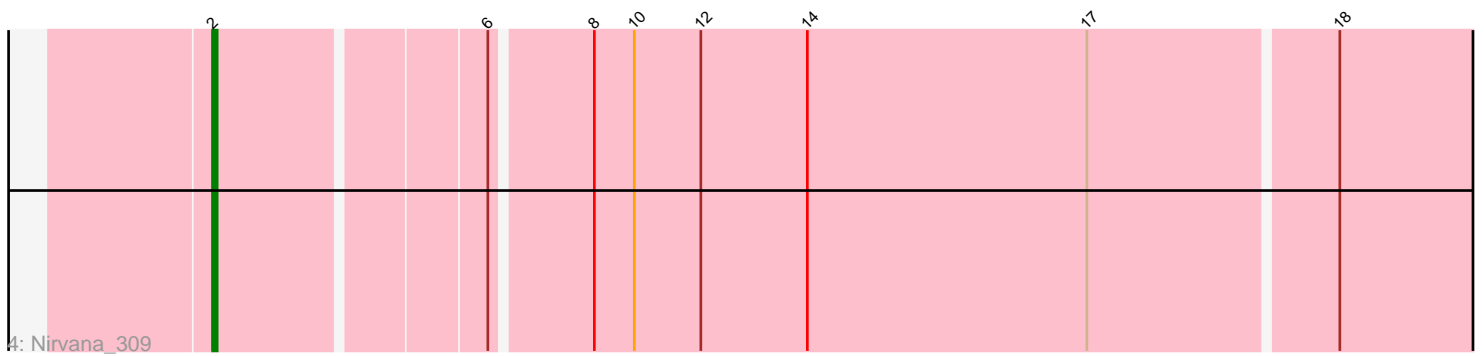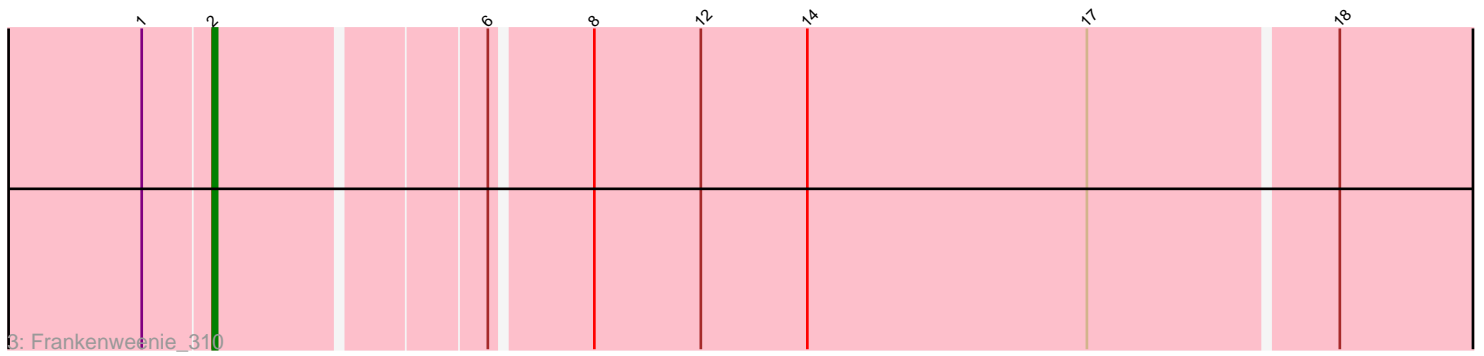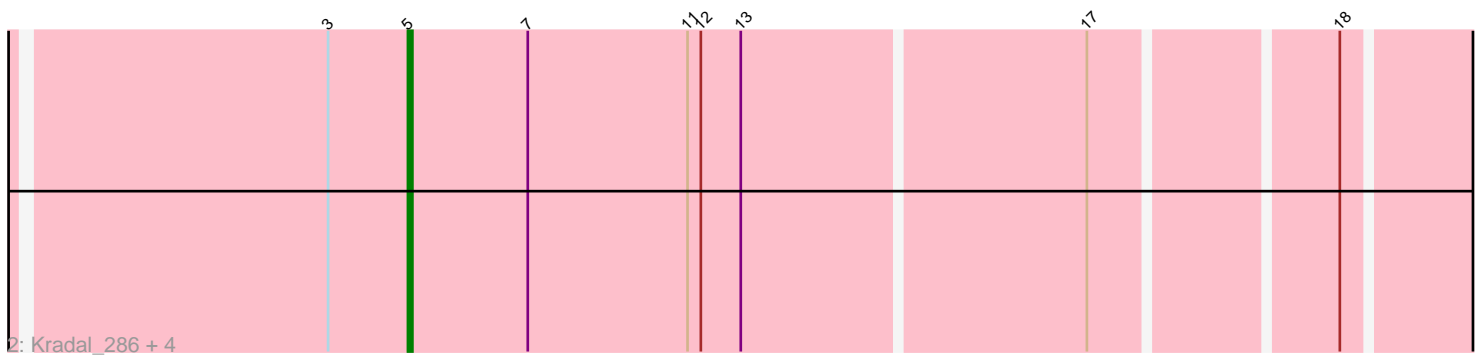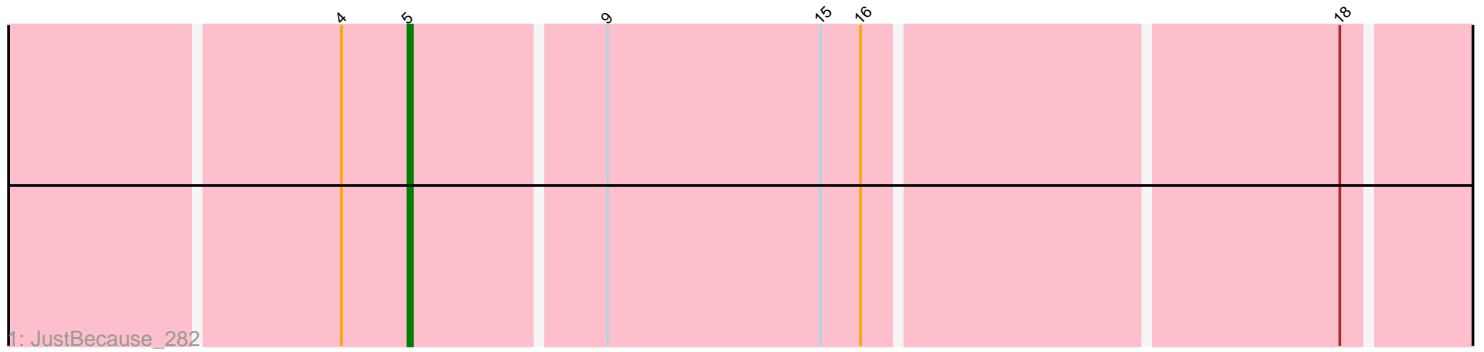# Pham 270181

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 270181 Report

This analysis was run 02/07/26 on database version 634.

Pham number 270181 has 8 members, 1 are drafts.

Phages represented in each track:
• Track 1 : JustBecause_282
• Track 2 : Kradal_286, EhyElimayoE_289, Satis_286, Sarkar_298, Quantum_284
• Track 3 : Frankenweenie_310
• Track 4 : Nirvana_309

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 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• EhyElimayoE_289, JustBecause_282, Kradal_286, Quantum_284, Sarkar_298, Satis_286,

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

Genes that do not have the "Most Annotated" start:
• Frankenweenie_310, Nirvana_309,

Summary by start number:

Start 2:
• Found in 2 of 8 (25.0%) of genes in pham
• Manual Annotations of this start: 2 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Frankenweenie_310 (BM), Nirvana_309 (BM),

Start 5:
• Found in 6 of 8 (75.0%) of genes in pham
• Manual Annotations of this start: 5 of 7
• Called 100.0% of time when present

• Phage (with cluster) where this start called: EhyElimayoE_289 (BM), JustBecause_282 (BM), Kradal_286 (BM), Quantum_284 (BM), Sarkar_298 (BM), Satis_286 (BM),

Summary by clusters:

There is one cluster represented in this pham: BM

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

Gene Information:

Gene: EhyElimayoE_289 Start: 160654, Stop: 160340, Start Num: 5
Candidate Starts for EhyElimayoE_289:
(3, 160672), (Start: 5 @160654 has 5 MA's), (7, 160627), (11, 160591), (12, 160588), (13, 160579), (17, 160504), (18, 160453),

Gene: Frankenweenie_310 Start: 172311, Stop: 171952, Start Num: 2
Candidate Starts for Frankenweenie_310:
(1, 172326), (Start: 2 @172311 has 2 MA's), (6, 172254), (8, 172233), (12, 172209), (14, 172185), (17, 172122), (18, 172068),

Gene: JustBecause_282 Start: 156141, Stop: 155827, Start Num: 5
Candidate Starts for JustBecause_282:
(4, 156156), (Start: 5 @156141 has 5 MA's), (9, 156099), (15, 156051), (16, 156042), (18, 155940),

Gene: Kradal_286 Start: 160651, Stop: 160337, Start Num: 5
Candidate Starts for Kradal_286:
(3, 160669), (Start: 5 @160651 has 5 MA's), (7, 160624), (11, 160588), (12, 160585), (13, 160576), (17, 160501), (18, 160450),

Gene: Nirvana_309 Start: 173578, Stop: 173219, Start Num: 2
Candidate Starts for Nirvana_309:
(Start: 2 @173578 has 2 MA's), (6, 173521), (8, 173500), (10, 173491), (12, 173476), (14, 173452), (17, 173389), (18, 173335),

Gene: Quantum_284 Start: 160645, Stop: 160331, Start Num: 5
Candidate Starts for Quantum_284:
(3, 160663), (Start: 5 @160645 has 5 MA's), (7, 160618), (11, 160582), (12, 160579), (13, 160570), (17, 160495), (18, 160444),

Gene: Sarkar_298 Start: 160696, Stop: 160382, Start Num: 5
Candidate Starts for Sarkar_298:
(3, 160714), (Start: 5 @160696 has 5 MA's), (7, 160669), (11, 160633), (12, 160630), (13, 160621), (17, 160546), (18, 160495),

Gene: Satis_286 Start: 160988, Stop: 160674, Start Num: 5
Candidate Starts for Satis_286:

(3, 161006), (Start: 5 @160988 has 5 MA's), (7, 160961), (11, 160925), (12, 160922), (13, 160913), (17, 160838), (18, 160787),