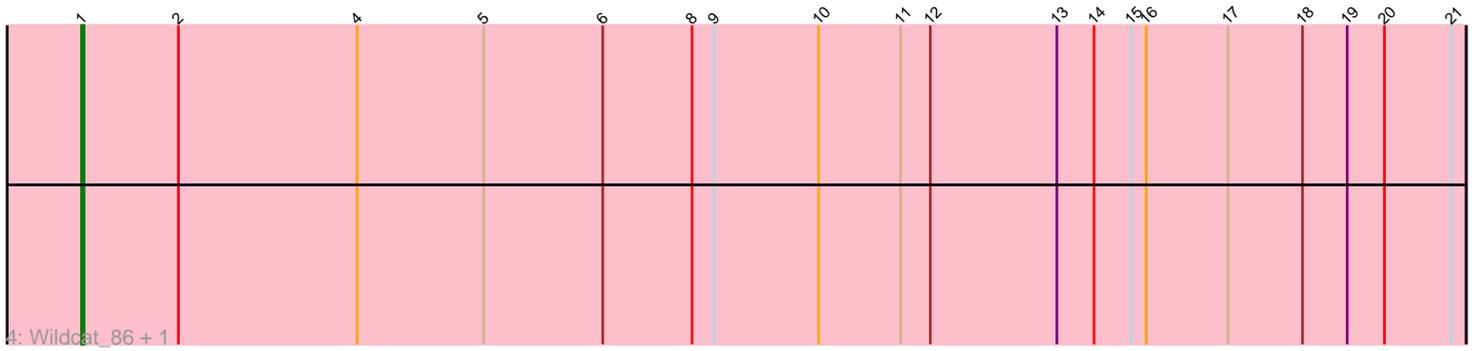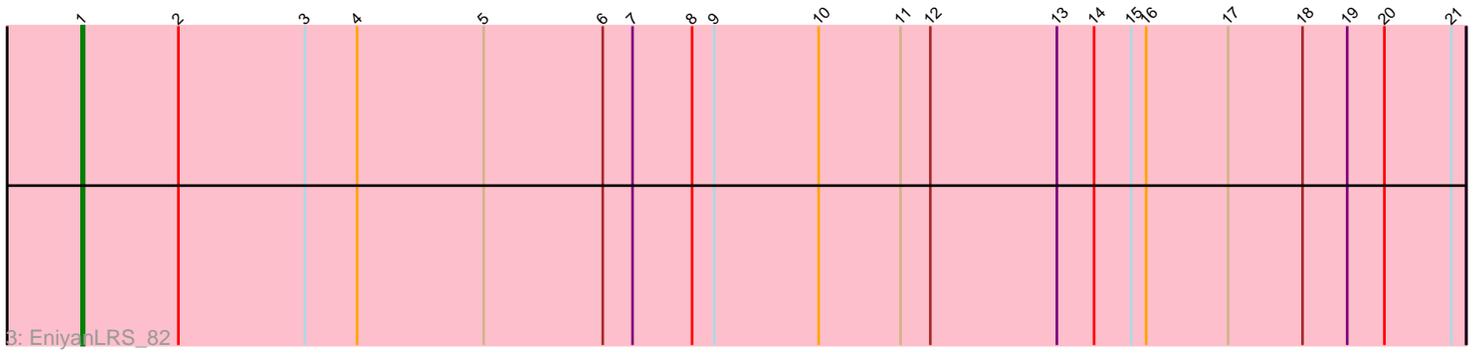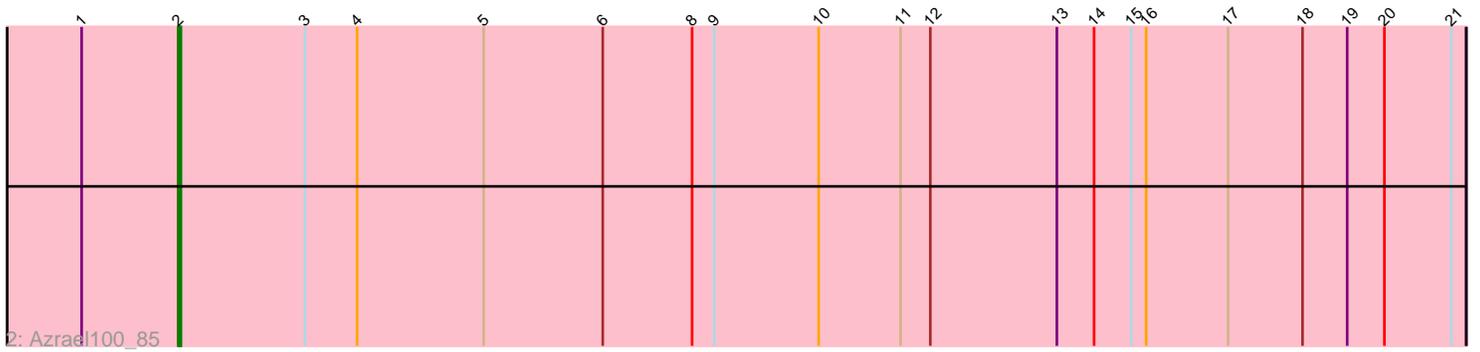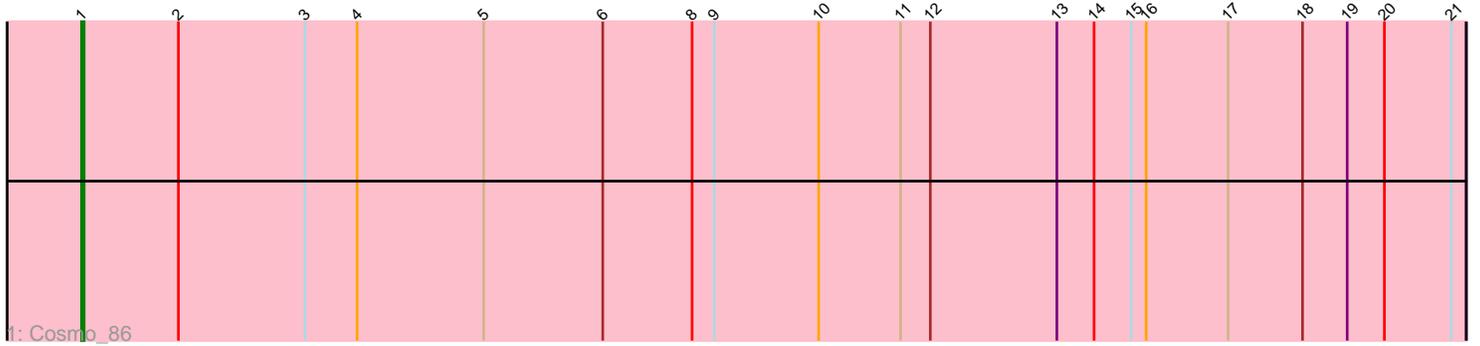# Pham 291912

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 291912 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291912 has 5 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Cosmo_86
• Track 2 : Azrael100_85
• Track 3 : EniyanLRS_82
• Track 4 : Wildcat_86, MaryV_86

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

Genes that call this "Most Annotated" start:
• Cosmo_86, EniyanLRS_82, MaryV_86, Wildcat_86,

Genes that have the "Most Annotated" start but do not call it:
• Azrael100_85,

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

Summary by start number:

Start 1:
• Found in 5 of 5 (100.0%) of genes in pham
• Manual Annotations of this start: 4 of 5
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Cosmo_86 (V), EniyanLRS_82 (V), MaryV_86 (V), Wildcat_86 (V),

Start 2:
• Found in 5 of 5 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Azrael100_85 (V),

Summary by clusters:

There is one cluster represented in this pham: V

Info for manual annotations of cluster V:
•Start number 1 was manually annotated 4 times for cluster V.
•Start number 2 was manually annotated 1 time for cluster V.

Gene Information:
Gene: Azrael100_85 Start: 52851, Stop: 53369, Start Num: 2
Candidate Starts for Azrael100_85:
(Start: 1 @52812 has 4 MA's), (Start: 2 @52851 has 1 MA's), (3, 52902), (4, 52923), (5, 52974), (6, 53022), (8, 53058), (9, 53067), (10, 53109), (11, 53142), (12, 53154), (13, 53205), (14, 53220), (15, 53235), (16, 53241), (17, 53274), (18, 53304), (19, 53322), (20, 53337), (21, 53364),

Gene: Cosmo_86 Start: 52813, Stop: 53370, Start Num: 1
Candidate Starts for Cosmo_86:
(Start: 1 @52813 has 4 MA's), (Start: 2 @52852 has 1 MA's), (3, 52903), (4, 52924), (5, 52975), (6, 53023), (8, 53059), (9, 53068), (10, 53110), (11, 53143), (12, 53155), (13, 53206), (14, 53221), (15, 53236), (16, 53242), (17, 53275), (18, 53305), (19, 53323), (20, 53338), (21, 53365),

Gene: EniyanLRS_82 Start: 52552, Stop: 53109, Start Num: 1
Candidate Starts for EniyanLRS_82:
(Start: 1 @52552 has 4 MA's), (Start: 2 @52591 has 1 MA's), (3, 52642), (4, 52663), (5, 52714), (6, 52762), (7, 52774), (8, 52798), (9, 52807), (10, 52849), (11, 52882), (12, 52894), (13, 52945), (14, 52960), (15, 52975), (16, 52981), (17, 53014), (18, 53044), (19, 53062), (20, 53077), (21, 53104),

Gene: MaryV_86 Start: 52634, Stop: 53191, Start Num: 1
Candidate Starts for MaryV_86:
(Start: 1 @52634 has 4 MA's), (Start: 2 @52673 has 1 MA's), (4, 52745), (5, 52796), (6, 52844), (8, 52880), (9, 52889), (10, 52931), (11, 52964), (12, 52976), (13, 53027), (14, 53042), (15, 53057), (16, 53063), (17, 53096), (18, 53126), (19, 53144), (20, 53159), (21, 53186),

Gene: Wildcat_86 Start: 52644, Stop: 53201, Start Num: 1
Candidate Starts for Wildcat_86:
(Start: 1 @52644 has 4 MA's), (Start: 2 @52683 has 1 MA's), (4, 52755), (5, 52806), (6, 52854), (8, 52890), (9, 52899), (10, 52941), (11, 52974), (12, 52986), (13, 53037), (14, 53052), (15, 53067), (16, 53073), (17, 53106), (18, 53136), (19, 53154), (20, 53169), (21, 53196),