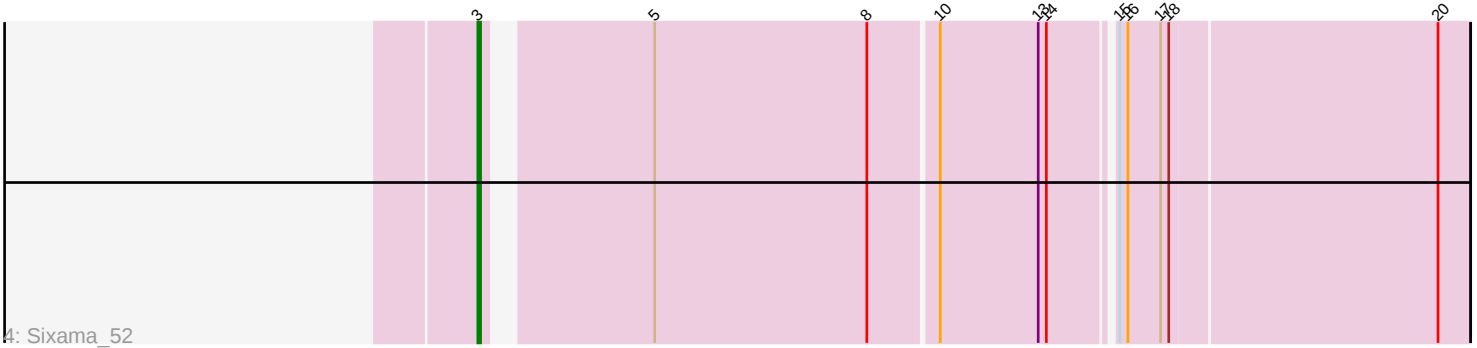
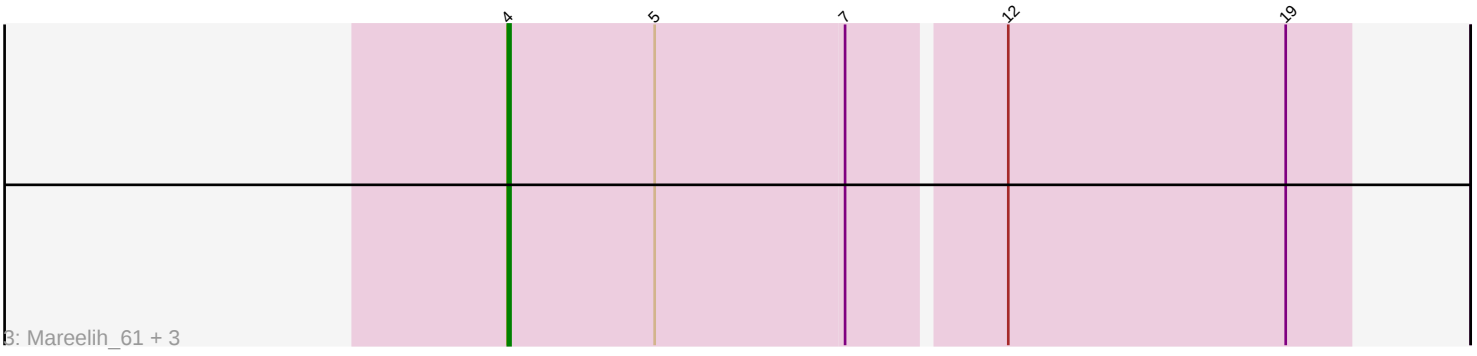
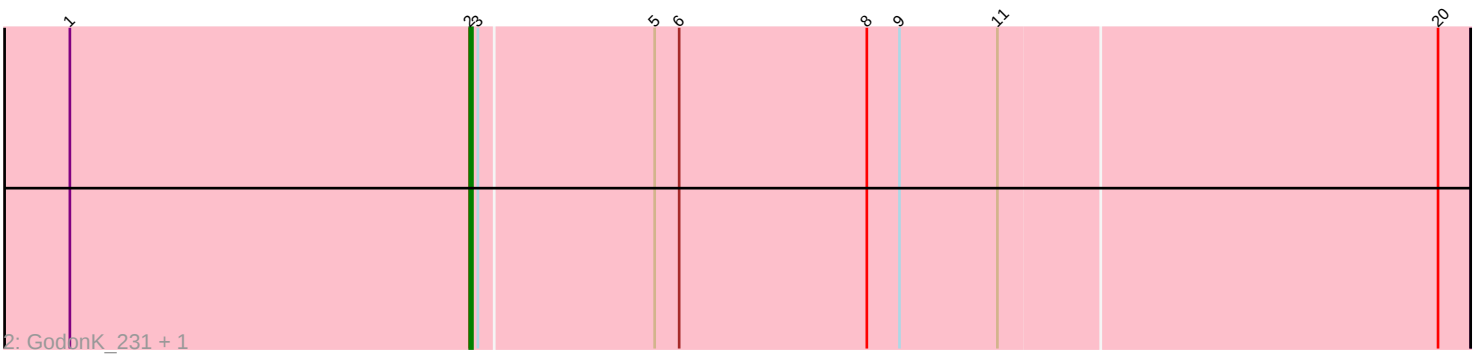
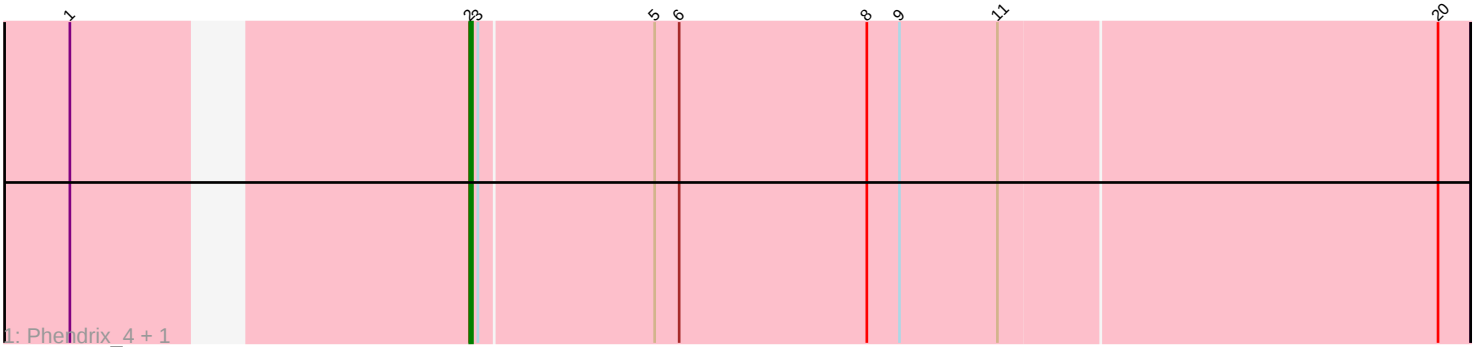




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 309820 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309820 has 9 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Phendrix_4, Phendrix_220
- Track 2 : GodonK_231, GodonK_5
- Track 3 : Mareelih_61, Boopy_63, Forza_62, BlueNGold_61
- Track 4 : Sixama_52

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

The start number called the most often in the published annotations is 4, it was called in 4 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BlueNGold_61, Boopy_63, Forza_62, Mareelih_61,

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

-

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

- GodonK_231, GodonK_5, Phendrix_220, Phendrix_4, Sixama_52,

Summary by start number:

Start 2:

- Found in 4 of 9 (44.4%) of genes in pham
- Manual Annotations of this start: 4 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK_231 (DK), GodonK_5 (DK), Phendrix_220 (DK), Phendrix_4 (DK),

Start 3:

- Found in 5 of 9 (55.6%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Sixama_52 (DS),

Start 4:

- Found in 4 of 9 (44.4%) of genes in pham
- Manual Annotations of this start: 4 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_61 (DS), Boopy_63 (DS), Forza_62 (DS), Mareelih_61 (DS),

Summary by clusters:

There are 2 clusters represented in this pham: DK, DS,

Info for manual annotations of cluster DK:

- Start number 2 was manually annotated 4 times for cluster DK.

Info for manual annotations of cluster DS:

- Start number 3 was manually annotated 1 time for cluster DS.
- Start number 4 was manually annotated 4 times for cluster DS.

Gene Information:

Gene: BlueNGold_61 Start: 23740, Stop: 23438, Start Num: 4

Candidate Starts for BlueNGold_61:

(Start: 4 @23740 has 4 MA's), (5, 23686), (7, 23617), (12, 23563), (19, 23461),

Gene: Boopy_63 Start: 23752, Stop: 23450, Start Num: 4

Candidate Starts for Boopy_63:

(Start: 4 @23752 has 4 MA's), (5, 23698), (7, 23629), (12, 23575), (19, 23473),

Gene: Forza_62 Start: 23668, Stop: 23366, Start Num: 4

Candidate Starts for Forza_62:

(Start: 4 @23668 has 4 MA's), (5, 23614), (7, 23545), (12, 23491), (19, 23389),

Gene: GodonK_231 Start: 117954, Stop: 117592, Start Num: 2

Candidate Starts for GodonK_231:

(1, 118101), (Start: 2 @117954 has 4 MA's), (Start: 3 @117951 has 1 MA's), (5, 117888), (6, 117879), (8, 117810), (9, 117798), (11, 117762), (20, 117603),

Gene: GodonK_5 Start: 2972, Stop: 2610, Start Num: 2

Candidate Starts for GodonK_5:

(1, 3119), (Start: 2 @2972 has 4 MA's), (Start: 3 @2969 has 1 MA's), (5, 2906), (6, 2897), (8, 2828), (9, 2816), (11, 2780), (20, 2621),

Gene: Mareelih_61 Start: 23170, Stop: 22868, Start Num: 4

Candidate Starts for Mareelih_61:

(Start: 4 @23170 has 4 MA's), (5, 23116), (7, 23047), (12, 22993), (19, 22891),

Gene: Phendrix_4 Start: 2833, Stop: 2471, Start Num: 2

Candidate Starts for Phendrix_4:

(1, 2959), (Start: 2 @2833 has 4 MA's), (Start: 3 @2830 has 1 MA's), (5, 2767), (6, 2758), (8, 2689), (9, 2677), (11, 2641), (20, 2482),

Gene: Phendrix_220 Start: 116431, Stop: 116069, Start Num: 2

Candidate Starts for Phendrix_220:

(1, 116557), (Start: 2 @116431 has 4 MA's), (Start: 3 @116428 has 1 MA's), (5, 116365), (6, 116356), (8, 116287), (9, 116275), (11, 116239), (20, 116080),

Gene: Sixama_52 Start: 19139, Stop: 18798, Start Num: 3

Candidate Starts for Sixama_52:

(Start: 3 @19139 has 1 MA's), (5, 19085), (8, 19007), (10, 18983), (13, 18947), (14, 18944), (15, 18923), (16, 18920), (17, 18908), (18, 18905), (20, 18809),