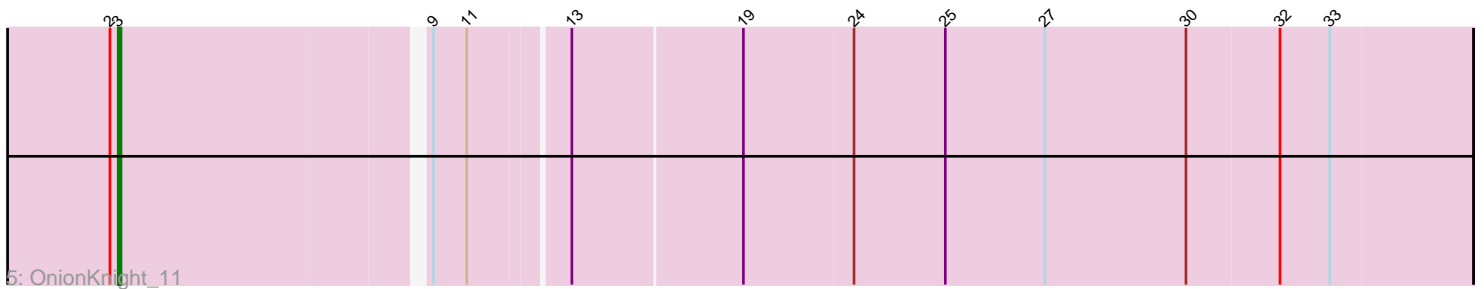
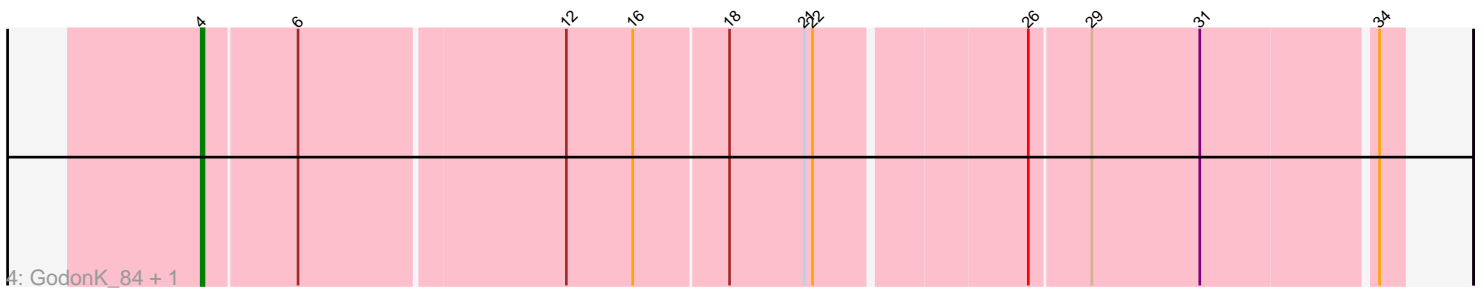
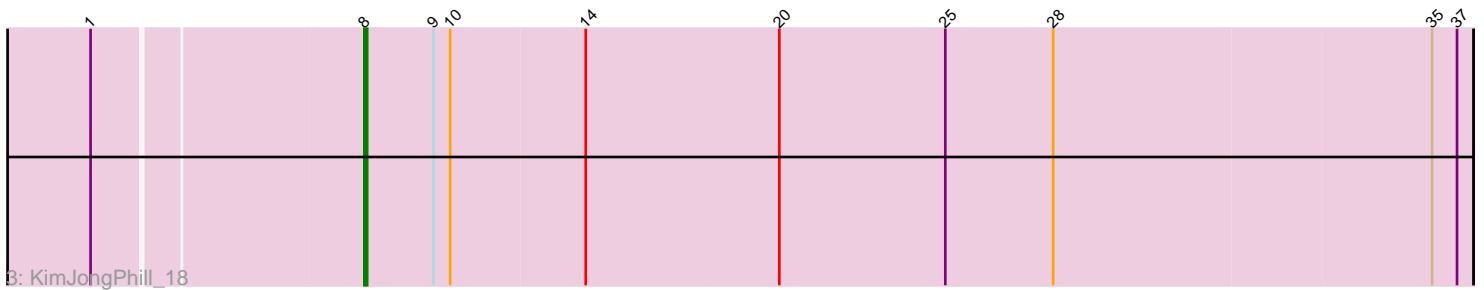
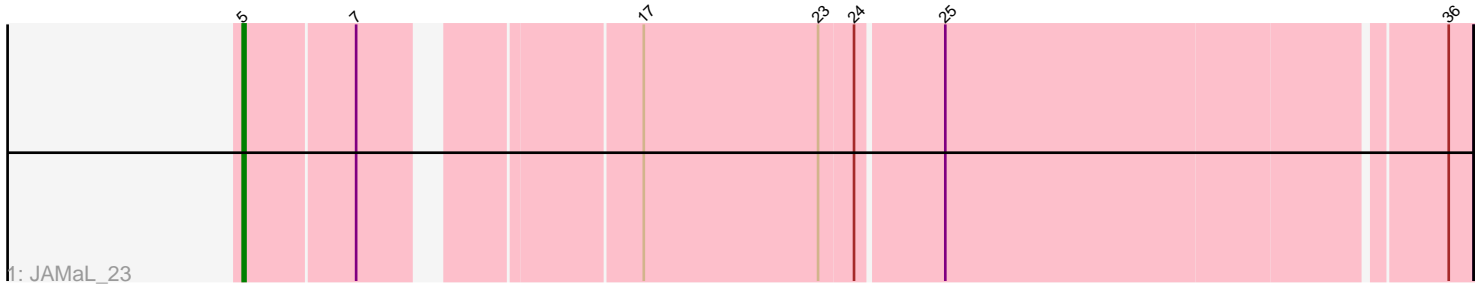


Pham 297328



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 297328 Report

This analysis was run 04/25/26 on database version 644.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 297328 has 6 members, 0 are drafts.

Phages represented in each track:

- Track 1 : JAMaL_23
- Track 2 : Zuko_15
- Track 3 : KimJongPhill_18
- Track 4 : GodonK_84, Phendrix_82
- Track 5 : OnionKnight_11

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 2 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- GodonK_84, Phendrix_82,

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

-

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

- JAMaL_23, KimJongPhill_18, OnionKnight_11, Zuko_15,

Summary by start number:

Start 3:

- Found in 1 of 6 (16.7%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: OnionKnight_11 (singleton),

Start 4:

- Found in 2 of 6 (33.3%) of genes in pham

- Manual Annotations of this start: 2 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK_84 (DK), Phendrix_82 (DK),

Start 5:

- Found in 1 of 6 (16.7%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JAMaL_23 (B4),

Start 8:

- Found in 2 of 6 (33.3%) of genes in pham
- Manual Annotations of this start: 2 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KimJongPhill_18 (BR), Zuko_15 (BR),

Summary by clusters:

There are 4 clusters represented in this pham: B4, singleton, DK, BR,

Info for manual annotations of cluster B4:

- Start number 5 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster BR:

- Start number 8 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster DK:

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

Gene Information:

Gene: GodonK_84 Start: 43620, Stop: 44033, Start Num: 4

Candidate Starts for GodonK_84:

(Start: 4 @43620 has 2 MA's), (6, 43653), (12, 43746), (16, 43770), (18, 43803), (21, 43830), (22, 43833), (26, 43905), (29, 43926), (31, 43965), (34, 44025),

Gene: JAMaL_23 Start: 19500, Stop: 19913, Start Num: 5

Candidate Starts for JAMaL_23:

(Start: 5 @19500 has 1 MA's), (7, 19539), (17, 19626), (23, 19689), (24, 19701), (25, 19731), (36, 19905),

Gene: KimJongPhill_18 Start: 13783, Stop: 14178, Start Num: 8

Candidate Starts for KimJongPhill_18:

(1, 13690), (Start: 8 @13783 has 2 MA's), (9, 13807), (10, 13813), (14, 13861), (20, 13930), (25, 13990), (28, 14029), (35, 14164), (37, 14173),

Gene: OnionKnight_11 Start: 8126, Stop: 8596, Start Num: 3

Candidate Starts for OnionKnight_11:

(2, 8123), (Start: 3 @8126 has 1 MA's), (9, 8231), (11, 8243), (13, 8276), (19, 8336), (24, 8375), (25, 8408), (27, 8444), (30, 8495), (32, 8528), (33, 8546),

Gene: Phendrix_82 Start: 43488, Stop: 43901, Start Num: 4

Candidate Starts for Phendrix_82:

(Start: 4 @43488 has 2 MA's), (6, 43521), (12, 43614), (16, 43638), (18, 43671), (21, 43698), (22, 43701), (26, 43773), (29, 43794), (31, 43833), (34, 43893),

Gene: Zuko_15 Start: 11717, Stop: 12112, Start Num: 8

Candidate Starts for Zuko_15:

(Start: 8 @11717 has 2 MA's), (10, 11747), (14, 11795), (15, 11804), (28, 11963), (35, 12098),