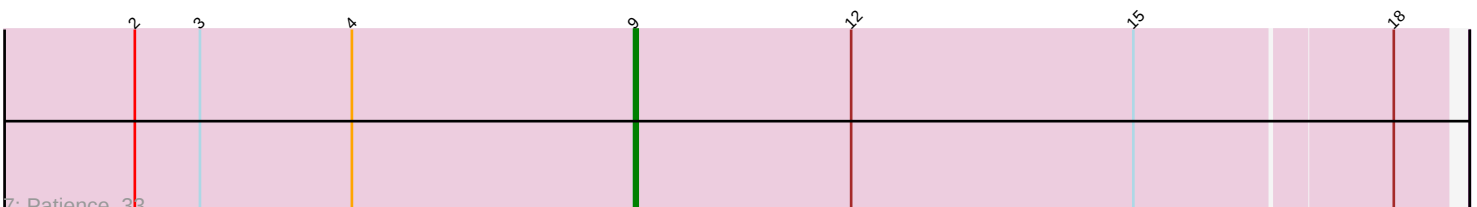
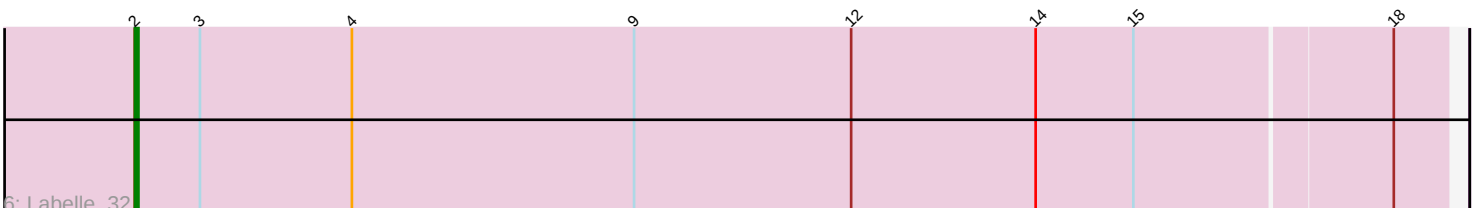
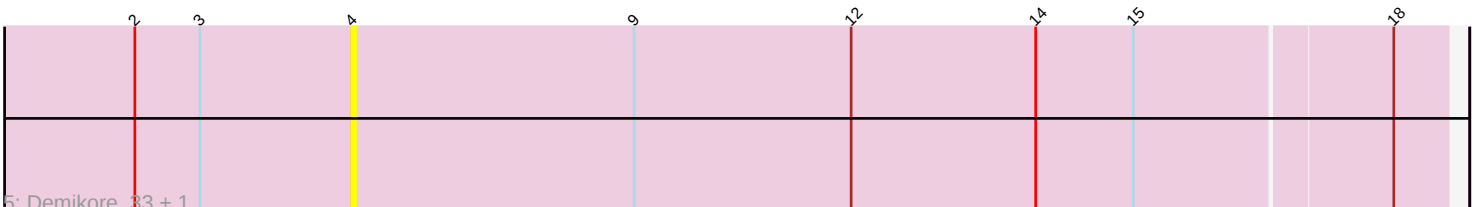
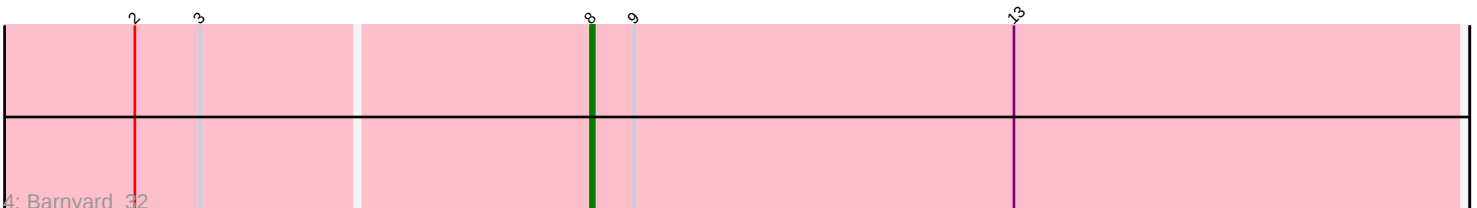
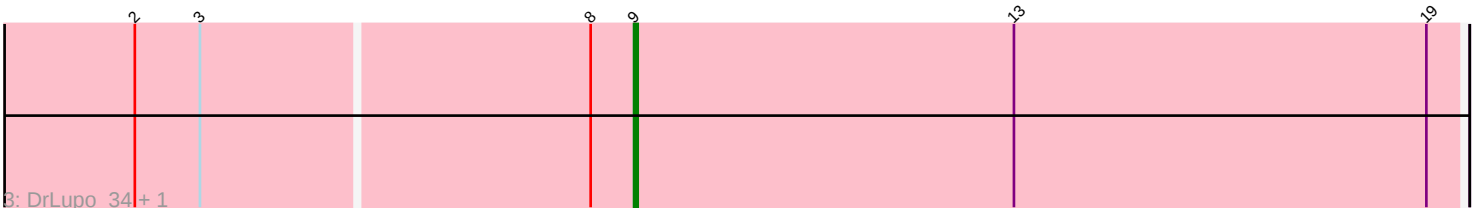
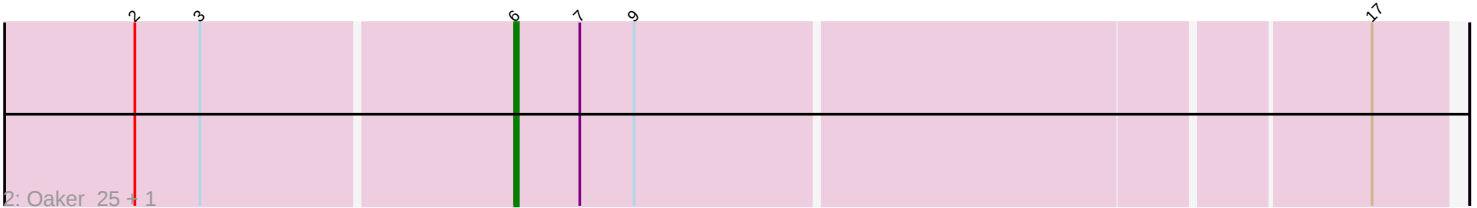
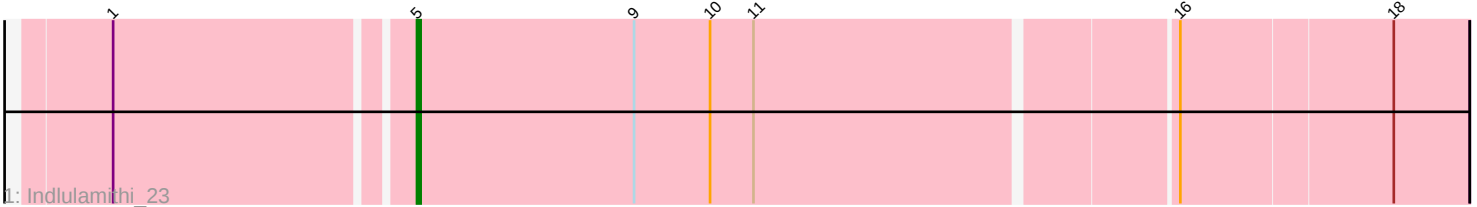


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 309882 Report

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

Pham number 309882 has 10 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Indlulamithi_23
- Track 2 : Oaker_25, Konstantine_30
- Track 3 : DrLupo_34, AmandaPanda_33
- Track 4 : Barnyard_32
- Track 5 : Demikore_33, SuperSonics_32
- Track 6 : Labelle_32
- Track 7 : Patience_33

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

The start number called the most often in the published annotations is 6, it was called in 2 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Konstantine_30, Oaker_25,

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

•

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

- AmandaPanda_33, Barnyard_32, Demikore_33, DrLupo_34, Indlulamithi_23, Labelle_32, Patience_33, SuperSonics_32,

Summary by start number:

Start 2:

- Found in 9 of 10 (90.0%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Labelle_32 (U),

Start 4:

- Found in 4 of 10 (40.0%) of genes in pham
- No Manual Annotations of this start.

- Called 50.0% of time when present
- Phage (with cluster) where this start called: Demikore_33 (U), SuperSonics_32 (U),

Start 5:

- Found in 1 of 10 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlulamithi_23 (AC),

Start 6:

- Found in 2 of 10 (20.0%) 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: Konstantine_30 (H1), Oaker_25 (H1),

Start 8:

- Found in 3 of 10 (30.0%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Barnyard_32 (H2),

Start 9:

- Found in 10 of 10 (100.0%) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 30.0% of time when present
- Phage (with cluster) where this start called: AmandaPanda_33 (H2), DrLupo_34 (H2), Patience_33 (U),

Summary by clusters:

There are 4 clusters represented in this pham: H2, AC, H1, U,

Info for manual annotations of cluster AC:

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

Info for manual annotations of cluster H1:

- Start number 6 was manually annotated 2 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 8 was manually annotated 1 time for cluster H2.
- Start number 9 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster U:

- Start number 2 was manually annotated 1 time for cluster U.
- Start number 9 was manually annotated 1 time for cluster U.

Gene Information:

Gene: AmandaPanda_33 Start: 18284, Stop: 18511, Start Num: 9

Candidate Starts for AmandaPanda_33:

(Start: 2 @18149 has 1 MA's), (3, 18167), (Start: 8 @18272 has 1 MA's), (Start: 9 @18284 has 2 MA's), (13, 18389), (19, 18503),

Gene: Barnyard_32 Start: 17866, Stop: 18105, Start Num: 8

Candidate Starts for Barnyard_32:

(Start: 2 @17743 has 1 MA's), (3, 17761), (Start: 8 @17866 has 1 MA's), (Start: 9 @17878 has 2 MA's), (13, 17983),

Gene: Demikore_33 Start: 19250, Stop: 19549, Start Num: 4

Candidate Starts for Demikore_33:

(Start: 2 @19190 has 1 MA's), (3, 19208), (4, 19250), (Start: 9 @19328 has 2 MA's), (12, 19388), (14, 19439), (15, 19466), (18, 19535),

Gene: DrLupo_34 Start: 18284, Stop: 18511, Start Num: 9

Candidate Starts for DrLupo_34:

(Start: 2 @18149 has 1 MA's), (3, 18167), (Start: 8 @18272 has 1 MA's), (Start: 9 @18284 has 2 MA's), (13, 18389), (19, 18503),

Gene: Indlulamithi_23 Start: 14172, Stop: 14453, Start Num: 5

Candidate Starts for Indlulamithi_23:

(1, 14094), (Start: 5 @14172 has 1 MA's), (Start: 9 @14232 has 2 MA's), (10, 14253), (11, 14265), (16, 14376), (18, 14433),

Gene: Konstantine_30 Start: 17169, Stop: 17417, Start Num: 6

Candidate Starts for Konstantine_30:

(Start: 2 @17067 has 1 MA's), (3, 17085), (Start: 6 @17169 has 2 MA's), (7, 17187), (Start: 9 @17202 has 2 MA's), (17, 17397),

Gene: Labelle_32 Start: 19192, Stop: 19551, Start Num: 2

Candidate Starts for Labelle_32:

(Start: 2 @19192 has 1 MA's), (3, 19210), (4, 19252), (Start: 9 @19330 has 2 MA's), (12, 19390), (14, 19441), (15, 19468), (18, 19537),

Gene: Oaker_25 Start: 16225, Stop: 16473, Start Num: 6

Candidate Starts for Oaker_25:

(Start: 2 @16123 has 1 MA's), (3, 16141), (Start: 6 @16225 has 2 MA's), (7, 16243), (Start: 9 @16258 has 2 MA's), (17, 16453),

Gene: Patience_33 Start: 19880, Stop: 20101, Start Num: 9

Candidate Starts for Patience_33:

(Start: 2 @19742 has 1 MA's), (3, 19760), (4, 19802), (Start: 9 @19880 has 2 MA's), (12, 19940), (15, 20018), (18, 20087),

Gene: SuperSonics_32 Start: 18978, Stop: 19277, Start Num: 4

Candidate Starts for SuperSonics_32:

(Start: 2 @18918 has 1 MA's), (3, 18936), (4, 18978), (Start: 9 @19056 has 2 MA's), (12, 19116), (14, 19167), (15, 19194), (18, 19263),