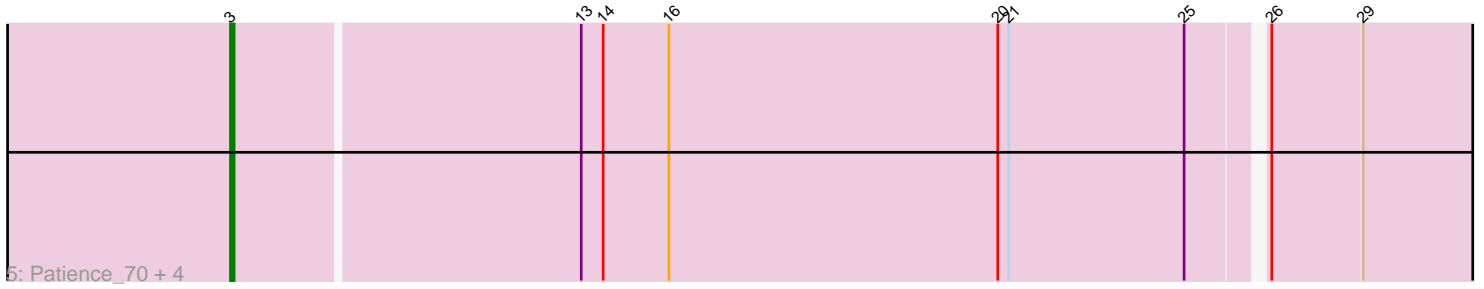
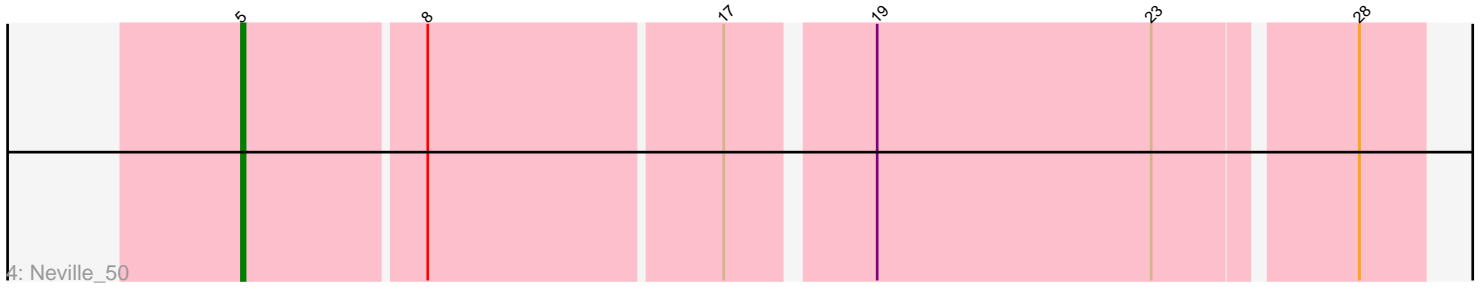
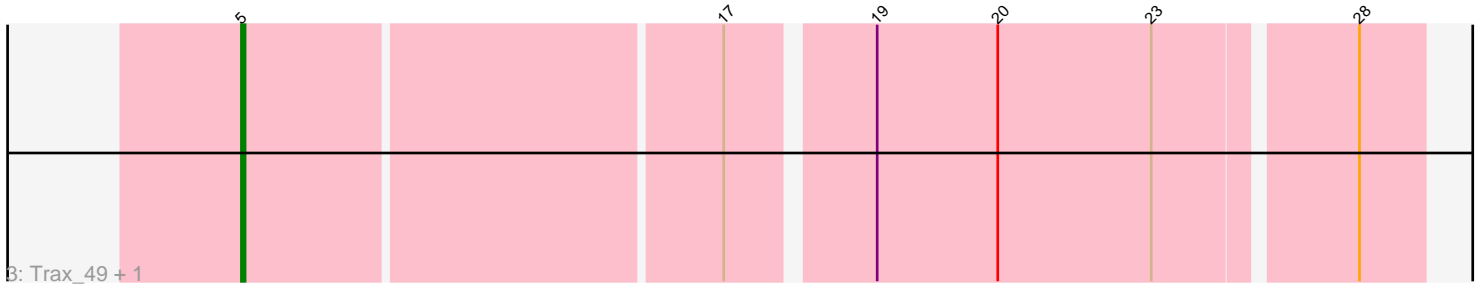
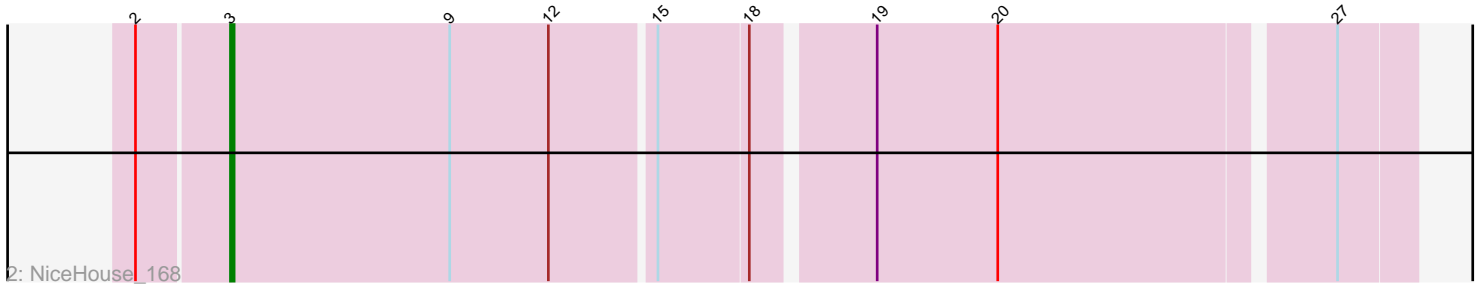
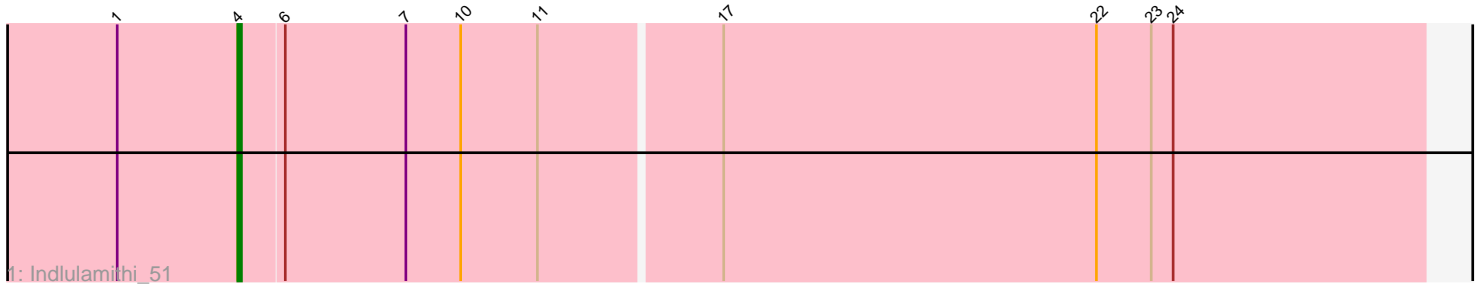


Pham 301982



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 301982 Report

This analysis was run 06/08/26 on database version 649.

Pham number 301982 has 10 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Indlulamithi\_51
- Track 2 : NiceHouse\_168
- Track 3 : Trax\_49, LilJank\_48
- Track 4 : Neville\_50
- Track 5 : Patience\_70, SuperSonics\_73, Madruga\_68, Labelle\_69, Demikore\_72

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

The start number called the most often in the published annotations is 3, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Demikore\_72, Labelle\_69, Madruga\_68, NiceHouse\_168, Patience\_70, SuperSonics\_73,

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

- 

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

- Indlulamithi\_51, LilJank\_48, Neville\_50, Trax\_49,

### **Summary by start number:**

Start 3:

- Found in 6 of 10 ( 60.0% ) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Demikore\_72 (U), Labelle\_69 (U), Madruga\_68 (U), NiceHouse\_168 (CE), Patience\_70 (U), SuperSonics\_73 (U),

Start 4:

- 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\_51 (AC),

Start 5:

- Found in 3 of 10 ( 30.0% ) 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: LilJank\_48 (DU2), Neville\_50 (DU2), Trax\_49 (DU2),

### **Summary by clusters:**

There are 4 clusters represented in this pham: DU2, U, AC, CE,

Info for manual annotations of cluster AC:

- Start number 4 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster CE:

- Start number 3 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster DU2:

- Start number 5 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster U:

- Start number 3 was manually annotated 3 times for cluster U.

### **Gene Information:**

Gene: Demikore\_72 Start: 46646, Stop: 46978, Start Num: 3

Candidate Starts for Demikore\_72:

(Start: 3 @46646 has 4 MA's), (13, 46739), (14, 46745), (16, 46763), (20, 46853), (21, 46856), (25, 46904), (26, 46922), (29, 46946),

Gene: Indlulamithi\_51 Start: 40386, Stop: 40706, Start Num: 4

Candidate Starts for Indlulamithi\_51:

(1, 40353), (Start: 4 @40386 has 1 MA's), (6, 40398), (7, 40431), (10, 40446), (11, 40467), (17, 40515), (22, 40617), (23, 40632), (24, 40638),

Gene: Labelle\_69 Start: 46467, Stop: 46799, Start Num: 3

Candidate Starts for Labelle\_69:

(Start: 3 @46467 has 4 MA's), (13, 46560), (14, 46566), (16, 46584), (20, 46674), (21, 46677), (25, 46725), (26, 46743), (29, 46767),

Gene: LilJank\_48 Start: 36520, Stop: 36825, Start Num: 5

Candidate Starts for LilJank\_48:

(Start: 5 @36520 has 2 MA's), (17, 36646), (19, 36682), (20, 36715), (23, 36757), (28, 36808),

Gene: Madruga\_68 Start: 46116, Stop: 46448, Start Num: 3

Candidate Starts for Madruga\_68:

(Start: 3 @46116 has 4 MA's), (13, 46209), (14, 46215), (16, 46233), (20, 46323), (21, 46326), (25, 46374), (26, 46392), (29, 46416),

Gene: Neville\_50 Start: 36182, Stop: 36487, Start Num: 5

Candidate Starts for Neville\_50:

(Start: 5 @36182 has 2 MA's), (8, 36230), (17, 36308), (19, 36344), (23, 36419), (28, 36470),

Gene: NiceHouse\_168 Start: 96952, Stop: 97260, Start Num: 3

Candidate Starts for NiceHouse\_168:

(2, 96928), (Start: 3 @96952 has 4 MA's), (9, 97012), (12, 97039), (15, 97066), (18, 97090), (19, 97120), (20, 97153), (27, 97240),

Gene: Patience\_70 Start: 47011, Stop: 47343, Start Num: 3

Candidate Starts for Patience\_70:

(Start: 3 @47011 has 4 MA's), (13, 47104), (14, 47110), (16, 47128), (20, 47218), (21, 47221), (25, 47269), (26, 47287), (29, 47311),

Gene: SuperSonics\_73 Start: 46359, Stop: 46691, Start Num: 3

Candidate Starts for SuperSonics\_73:

(Start: 3 @46359 has 4 MA's), (13, 46452), (14, 46458), (16, 46476), (20, 46566), (21, 46569), (25, 46617), (26, 46635), (29, 46659),

Gene: Trax\_49 Start: 36467, Stop: 36772, Start Num: 5

Candidate Starts for Trax\_49:

(Start: 5 @36467 has 2 MA's), (17, 36593), (19, 36629), (20, 36662), (23, 36704), (28, 36755),