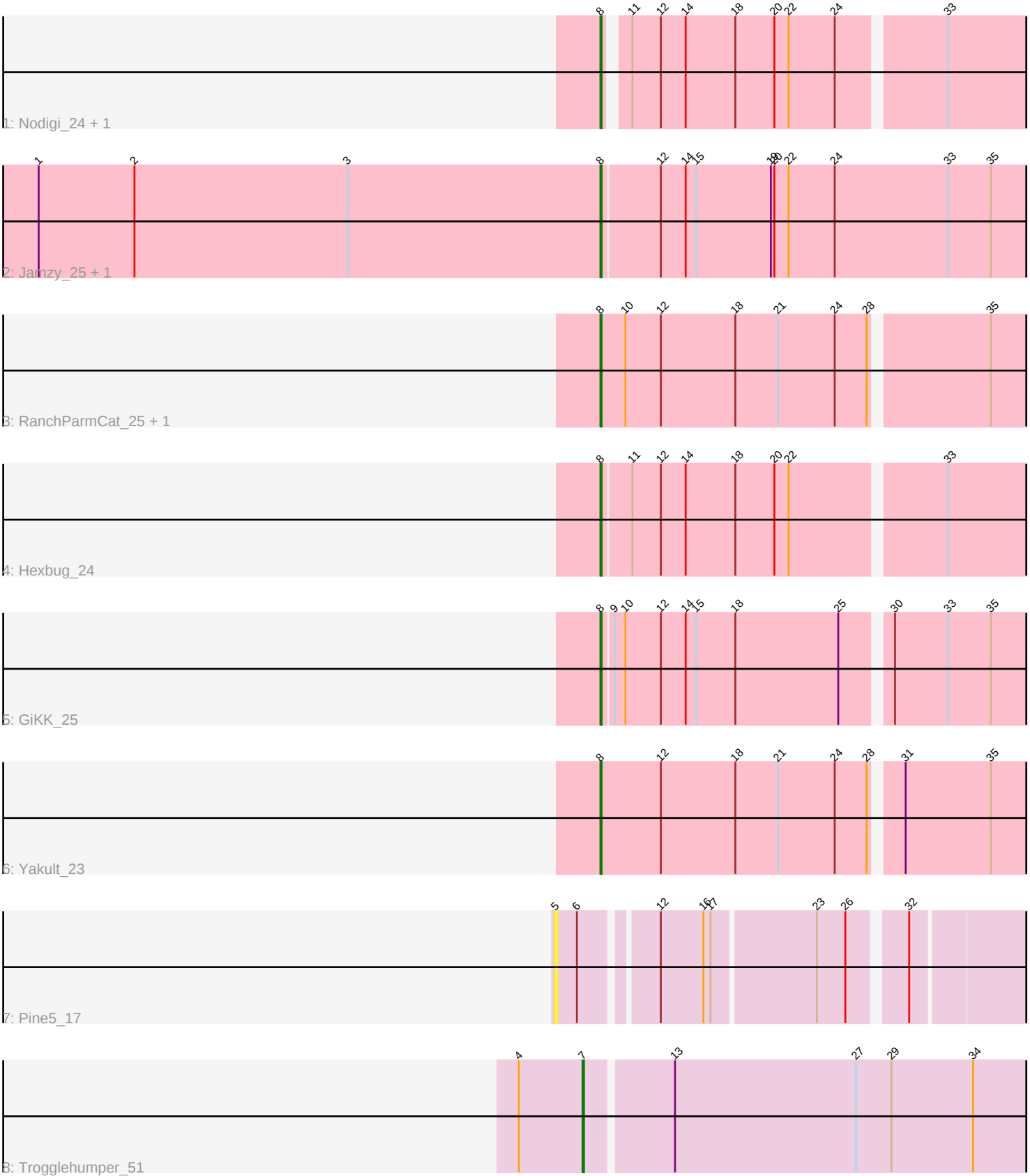




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 309704 Report

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

Pham number 309704 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Nodigi_24, Orla_24
- Track 2 : Jamzy_25, Button_23
- Track 3 : RanchParmCat_25, Margaret_25
- Track 4 : Hexbug_24
- Track 5 : GiKK_25
- Track 6 : Yakult_23
- Track 7 : Pine5_17
- Track 8 : Trogglehumper_51

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

The start number called the most often in the published annotations is 8, it was called in 9 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Button_23, GiKK_25, Hexbug_24, Jamzy_25, Margaret_25, Nodigi_24, Orla_24, RanchParmCat_25, Yakult_23,

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

-

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

- Pine5_17, Trogglehumper_51,

Summary by start number:

Start 5:

- Found in 1 of 11 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pine5_17 (singleton),

Start 7:

- Found in 1 of 11 (9.1%) of genes in pham

- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trogglehumper_51 (singleton),

Start 8:

- Found in 9 of 11 (81.8%) of genes in pham
- Manual Annotations of this start: 9 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Button_23 (CT), GiKK_25 (CT), Hexbug_24 (CT), Jamzy_25 (CT), Margaret_25 (CT), Nodigi_24 (CT), Orla_24 (CT), RanchParmCat_25 (CT), Yakult_23 (CT),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, CT,

Info for manual annotations of cluster CT:

- Start number 8 was manually annotated 9 times for cluster CT.

Gene Information:

Gene: Button_23 Start: 18401, Stop: 18763, Start Num: 8

Candidate Starts for Button_23:

(1, 17927), (2, 18008), (3, 18188), (Start: 8 @18401 has 9 MA's), (12, 18449), (14, 18470), (15, 18479), (19, 18542), (20, 18545), (22, 18557), (24, 18596), (33, 18692), (35, 18728),

Gene: GiKK_25 Start: 18704, Stop: 19063, Start Num: 8

Candidate Starts for GiKK_25:

(Start: 8 @18704 has 9 MA's), (9, 18713), (10, 18722), (12, 18752), (14, 18773), (15, 18782), (18, 18815), (25, 18902), (30, 18938), (33, 18983), (35, 19019),

Gene: Hexbug_24 Start: 19399, Stop: 19746, Start Num: 8

Candidate Starts for Hexbug_24:

(Start: 8 @19399 has 9 MA's), (11, 19423), (12, 19447), (14, 19468), (18, 19510), (20, 19543), (22, 19555), (33, 19678),

Gene: Jamzy_25 Start: 18714, Stop: 19076, Start Num: 8

Candidate Starts for Jamzy_25:

(1, 18240), (2, 18321), (3, 18501), (Start: 8 @18714 has 9 MA's), (12, 18762), (14, 18783), (15, 18792), (19, 18855), (20, 18858), (22, 18870), (24, 18909), (33, 19005), (35, 19041),

Gene: Margaret_25 Start: 19086, Stop: 19445, Start Num: 8

Candidate Starts for Margaret_25:

(Start: 8 @19086 has 9 MA's), (10, 19107), (12, 19137), (18, 19200), (21, 19236), (24, 19284), (28, 19311), (35, 19404),

Gene: Nodigi_24 Start: 19378, Stop: 19716, Start Num: 8

Candidate Starts for Nodigi_24:

(Start: 8 @19378 has 9 MA's), (11, 19393), (12, 19417), (14, 19438), (18, 19480), (20, 19513), (22, 19525), (24, 19564), (33, 19648),

Gene: Orla_24 Start: 19382, Stop: 19720, Start Num: 8

Candidate Starts for Orla_24:

(Start: 8 @19382 has 9 MA's), (11, 19397), (12, 19421), (14, 19442), (18, 19484), (20, 19517), (22, 19529), (24, 19568), (33, 19652),

Gene: Pine5_17 Start: 14256, Stop: 14645, Start Num: 5

Candidate Starts for Pine5_17:

(5, 14256), (6, 14274), (12, 14331), (16, 14367), (17, 14373), (23, 14457), (26, 14481), (32, 14523),

Gene: RanchParmCat_25 Start: 19086, Stop: 19445, Start Num: 8

Candidate Starts for RanchParmCat_25:

(Start: 8 @19086 has 9 MA's), (10, 19107), (12, 19137), (18, 19200), (21, 19236), (24, 19284), (28, 19311), (35, 19404),

Gene: Trogglehumper_51 Start: 46113, Stop: 46529, Start Num: 7

Candidate Starts for Trogglehumper_51:

(4, 46059), (Start: 7 @46113 has 1 MA's), (13, 46182), (27, 46335), (29, 46365), (34, 46434),

Gene: Yakult_23 Start: 18940, Stop: 19299, Start Num: 8

Candidate Starts for Yakult_23:

(Start: 8 @18940 has 9 MA's), (12, 18991), (18, 19054), (21, 19090), (24, 19138), (28, 19165), (31, 19186), (35, 19258),