



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 297212 Report

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

Pham number 297212 has 10 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Nandita\_63, Kihatsu\_64, Dirdigger\_60, Ryan\_64, Lenoxika\_60, ToastyOats\_63, Ichiang\_60, Donatella\_63, Yonex\_64
- Track 2 : Ball\_44

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

The start number called the most often in the published annotations is 1, it was called in 5 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ball\_44, Dirdigger\_60, Donatella\_63, Ichiang\_60, Kihatsu\_64, Lenoxika\_60, Nandita\_63, Ryan\_64, ToastyOats\_63, Yonex\_64,

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

- 

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

- 

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

Start 1:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 5 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ball\_44 (singleton), Dirdigger\_60 (FF), Donatella\_63 (FF), Ichiang\_60 (FF), Kihatsu\_64 (FF), Lenoxika\_60 (FF), Nandita\_63 (FF), Ryan\_64 (FF), ToastyOats\_63 (FF), Yonex\_64 (FF),

### **Summary by clusters:**

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

Info for manual annotations of cluster FF:

- Start number 1 was manually annotated 5 times for cluster FF.

**Gene Information:**

Gene: Ball\_44 Start: 31651, Stop: 32676, Start Num: 1

Candidate Starts for Ball\_44:

(Start: 1 @31651 has 5 MA's), (2, 31744), (3, 31801), (4, 31816), (5, 31822), (6, 31825), (7, 31828), (8, 31861), (9, 31879), (10, 31882), (11, 31975), (12, 32068), (13, 32302),

Gene: Dirtdigger\_60 Start: 38872, Stop: 39894, Start Num: 1

Candidate Starts for Dirtdigger\_60:

(Start: 1 @38872 has 5 MA's), (2, 38965), (4, 39037), (5, 39043), (6, 39046), (7, 39049), (10, 39103), (11, 39196),

Gene: Donatella\_63 Start: 39063, Stop: 40085, Start Num: 1

Candidate Starts for Donatella\_63:

(Start: 1 @39063 has 5 MA's), (2, 39156), (4, 39228), (5, 39234), (6, 39237), (7, 39240), (10, 39294), (11, 39387),

Gene: Ichiang\_60 Start: 38423, Stop: 39445, Start Num: 1

Candidate Starts for Ichiang\_60:

(Start: 1 @38423 has 5 MA's), (2, 38516), (4, 38588), (5, 38594), (6, 38597), (7, 38600), (10, 38654), (11, 38747),

Gene: Kihatsu\_64 Start: 39971, Stop: 40993, Start Num: 1

Candidate Starts for Kihatsu\_64:

(Start: 1 @39971 has 5 MA's), (2, 40064), (4, 40136), (5, 40142), (6, 40145), (7, 40148), (10, 40202), (11, 40295),

Gene: Lenoxika\_60 Start: 38298, Stop: 39320, Start Num: 1

Candidate Starts for Lenoxika\_60:

(Start: 1 @38298 has 5 MA's), (2, 38391), (4, 38463), (5, 38469), (6, 38472), (7, 38475), (10, 38529), (11, 38622),

Gene: Nandita\_63 Start: 38985, Stop: 40007, Start Num: 1

Candidate Starts for Nandita\_63:

(Start: 1 @38985 has 5 MA's), (2, 39078), (4, 39150), (5, 39156), (6, 39159), (7, 39162), (10, 39216), (11, 39309),

Gene: Ryan\_64 Start: 39538, Stop: 40560, Start Num: 1

Candidate Starts for Ryan\_64:

(Start: 1 @39538 has 5 MA's), (2, 39631), (4, 39703), (5, 39709), (6, 39712), (7, 39715), (10, 39769), (11, 39862),

Gene: ToastyOats\_63 Start: 38718, Stop: 39740, Start Num: 1

Candidate Starts for ToastyOats\_63:

(Start: 1 @38718 has 5 MA's), (2, 38811), (4, 38883), (5, 38889), (6, 38892), (7, 38895), (10, 38949), (11, 39042),

Gene: Yonex\_64 Start: 39538, Stop: 40560, Start Num: 1

Candidate Starts for Yonex\_64:

(Start: 1 @39538 has 5 MA's), (2, 39631), (4, 39703), (5, 39709), (6, 39712), (7, 39715), (10, 39769), (11, 39862),