



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 87144 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87144 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Superphikiman\_129, HokkenD\_124, Hannaconda\_125, Gonephishing\_126, Yeet\_126, Courthouse\_127
- Track 2 : LittleE\_134, KashFlow\_129, MiaZeal\_131, Omega\_141
- Track 3 : Squint\_129, Porcelain\_129, Lucky2013\_126, Ariel\_131
- Track 4 : Odette\_136

### ***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 9 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel\_131, Courthouse\_127, Gonephishing\_126, Hannaconda\_125, HokkenD\_124, Lucky2013\_126, Porcelain\_129, Squint\_129, Superphikiman\_129, Yeet\_126,

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

- KashFlow\_129, LittleE\_134, MiaZeal\_131, Odette\_136, Omega\_141,

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

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

Start 5:

- Found in 4 of 15 ( 26.7% ) of genes in pham
- Manual Annotations of this start: 4 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KashFlow\_129 (J), LittleE\_134 (J), MiaZeal\_131 (J), Omega\_141 (J),

Start 6:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 13
- Called 66.7% of time when present

- Phage (with cluster) where this start called: Ariel\_131 (J), Courthouse\_127 (J), Gonephishing\_126 (J), Hannaconda\_125 (J), HokkenD\_124 (J), Lucky2013\_126 (J), Porcelain\_129 (J), Squint\_129 (J), Superphikiman\_129 (J), Yeet\_126 (J),

Start 7:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Odette\_136 (J),

### **Summary by clusters:**

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 5 was manually annotated 4 times for cluster J.
- Start number 6 was manually annotated 9 times for cluster J.

### **Gene Information:**

Gene: Ariel\_131 Start: 69213, Stop: 69404, Start Num: 6

Candidate Starts for Ariel\_131:

(4, 69129), (Start: 6 @69213 has 9 MA's), (7, 69234), (8, 69390),

Gene: Courthouse\_127 Start: 69071, Stop: 69262, Start Num: 6

Candidate Starts for Courthouse\_127:

(1, 68684), (2, 68783), (3, 68927), (Start: 6 @69071 has 9 MA's), (7, 69092), (8, 69248),

Gene: Gonephishing\_126 Start: 68714, Stop: 68905, Start Num: 6

Candidate Starts for Gonephishing\_126:

(1, 68327), (2, 68426), (3, 68570), (Start: 6 @68714 has 9 MA's), (7, 68735), (8, 68891),

Gene: Hannaconda\_125 Start: 69367, Stop: 69558, Start Num: 6

Candidate Starts for Hannaconda\_125:

(1, 68980), (2, 69079), (3, 69223), (Start: 6 @69367 has 9 MA's), (7, 69388), (8, 69544),

Gene: HokkenD\_124 Start: 72248, Stop: 72439, Start Num: 6

Candidate Starts for HokkenD\_124:

(1, 71861), (2, 71960), (3, 72104), (Start: 6 @72248 has 9 MA's), (7, 72269), (8, 72425),

Gene: KashFlow\_129 Start: 70769, Stop: 70993, Start Num: 5

Candidate Starts for KashFlow\_129:

(Start: 5 @70769 has 4 MA's), (Start: 6 @70802 has 9 MA's), (7, 70823), (8, 70979),

Gene: LittleE\_134 Start: 72023, Stop: 72247, Start Num: 5

Candidate Starts for LittleE\_134:

(Start: 5 @72023 has 4 MA's), (Start: 6 @72056 has 9 MA's), (7, 72077), (8, 72233),

Gene: Lucky2013\_126 Start: 68932, Stop: 69123, Start Num: 6

Candidate Starts for Lucky2013\_126:

(4, 68848), (Start: 6 @68932 has 9 MA's), (7, 68953), (8, 69109),

Gene: MiaZeal\_131 Start: 70038, Stop: 70262, Start Num: 5

Candidate Starts for MiaZeal\_131:

(Start: 5 @70038 has 4 MA's), (Start: 6 @70071 has 9 MA's), (7, 70092), (8, 70248),

Gene: Odette\_136 Start: 74186, Stop: 74356, Start Num: 7

Candidate Starts for Odette\_136:

(1, 73778), (2, 73877), (3, 74021), (Start: 6 @74165 has 9 MA's), (7, 74186), (8, 74342),

Gene: Omega\_141 Start: 73704, Stop: 73928, Start Num: 5

Candidate Starts for Omega\_141:

(Start: 5 @73704 has 4 MA's), (Start: 6 @73737 has 9 MA's), (7, 73758), (8, 73914),

Gene: Porcelain\_129 Start: 69878, Stop: 70069, Start Num: 6

Candidate Starts for Porcelain\_129:

(4, 69794), (Start: 6 @69878 has 9 MA's), (7, 69899), (8, 70055),

Gene: Squint\_129 Start: 70138, Stop: 70329, Start Num: 6

Candidate Starts for Squint\_129:

(4, 70054), (Start: 6 @70138 has 9 MA's), (7, 70159), (8, 70315),

Gene: Superphikiman\_129 Start: 69353, Stop: 69544, Start Num: 6

Candidate Starts for Superphikiman\_129:

(1, 68966), (2, 69065), (3, 69209), (Start: 6 @69353 has 9 MA's), (7, 69374), (8, 69530),

Gene: Yeet\_126 Start: 72277, Stop: 72468, Start Num: 6

Candidate Starts for Yeet\_126:

(1, 71890), (2, 71989), (3, 72133), (Start: 6 @72277 has 9 MA's), (7, 72298), (8, 72454),