



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 305353 Report

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

Pham number 305353 has 18 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Nibley\_211, MiaZeal\_228, Nekros\_222, BronnyJames\_213, ThreeRngTarjay\_220, Shaboozey\_219, Porcelain\_219, Lucky2013\_216
- Track 2 : KashFlow\_213, Minerva\_218, Odette\_222, Duke13\_223, Hannaconda\_212, Pound\_210, Schatzie\_212
- Track 3 : DmpstrDiver\_220
- Track 4 : Kalah2\_221
- Track 5 : Marleymoo\_204

### ***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 12 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BronnyJames\_213, DmpstrDiver\_220, Duke13\_223, Hannaconda\_212, Kalah2\_221, KashFlow\_213, Lucky2013\_216, MiaZeal\_228, Minerva\_218, Nekros\_222, Nibley\_211, Odette\_222, Porcelain\_219, Pound\_210, Schatzie\_212, Shaboozey\_219, ThreeRngTarjay\_220,

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

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

- Marleymoo\_204,

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

Start 1:

- Found in 17 of 18 ( 94.4% ) of genes in pham
- Manual Annotations of this start: 12 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BronnyJames\_213 (J), DmpstrDiver\_220 (J), Duke13\_223 (J), Hannaconda\_212 (J), Kalah2\_221 (J), KashFlow\_213 (J), Lucky2013\_216 (J), MiaZeal\_228 (J), Minerva\_218 (J), Nekros\_222 (J), Nibley\_211

(J), Odette\_222 (J), Porcelain\_219 (J), Pound\_210 (J), Schatzie\_212 (J), Shaboozey\_219 (J), ThreeRngTarjay\_220 (J),

Start 2:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Marleymoo\_204 (J),

### **Summary by clusters:**

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 1 was manually annotated 12 times for cluster J.

### **Gene Information:**

Gene: BronnyJames\_213 Start: 102094, Stop: 101768, Start Num: 1

Candidate Starts for BronnyJames\_213:

(Start: 1 @102094 has 12 MA's), (5, 101959), (8, 101884), (9, 101881), (10, 101824), (11, 101821),

Gene: DmpstrDiver\_220 Start: 105699, Stop: 105373, Start Num: 1

Candidate Starts for DmpstrDiver\_220:

(Start: 1 @105699 has 12 MA's), (4, 105579), (5, 105564), (7, 105504), (10, 105429),

Gene: Duke13\_223 Start: 106493, Stop: 106167, Start Num: 1

Candidate Starts for Duke13\_223:

(Start: 1 @106493 has 12 MA's), (5, 106358), (8, 106283), (9, 106280), (10, 106223), (11, 106220),

Gene: Hannaconda\_212 Start: 105480, Stop: 105154, Start Num: 1

Candidate Starts for Hannaconda\_212:

(Start: 1 @105480 has 12 MA's), (5, 105345), (8, 105270), (9, 105267), (10, 105210), (11, 105207),

Gene: Kalah2\_221 Start: 107782, Stop: 107456, Start Num: 1

Candidate Starts for Kalah2\_221:

(Start: 1 @107782 has 12 MA's), (5, 107647), (8, 107572), (9, 107569), (10, 107512), (11, 107509),

Gene: KashFlow\_213 Start: 105374, Stop: 105048, Start Num: 1

Candidate Starts for KashFlow\_213:

(Start: 1 @105374 has 12 MA's), (5, 105239), (8, 105164), (9, 105161), (10, 105104), (11, 105101),

Gene: Lucky2013\_216 Start: 102433, Stop: 102107, Start Num: 1

Candidate Starts for Lucky2013\_216:

(Start: 1 @102433 has 12 MA's), (5, 102298), (8, 102223), (9, 102220), (10, 102163), (11, 102160),

Gene: Marleymoo\_204 Start: 103967, Stop: 103641, Start Num: 2

Candidate Starts for Marleymoo\_204:

(2, 103967), (3, 103904), (4, 103847), (5, 103832), (6, 103793), (8, 103757), (9, 103754), (11, 103694), (12, 103676),

Gene: MiaZeal\_228 Start: 104572, Stop: 104246, Start Num: 1  
Candidate Starts for MiaZeal\_228:  
(Start: 1 @104572 has 12 MA's), (5, 104437), (8, 104362), (9, 104359), (10, 104302), (11, 104299),

Gene: Minerva\_218 Start: 104286, Stop: 103960, Start Num: 1  
Candidate Starts for Minerva\_218:  
(Start: 1 @104286 has 12 MA's), (5, 104151), (8, 104076), (9, 104073), (10, 104016), (11, 104013),

Gene: Nekros\_222 Start: 106378, Stop: 106052, Start Num: 1  
Candidate Starts for Nekros\_222:  
(Start: 1 @106378 has 12 MA's), (5, 106243), (8, 106168), (9, 106165), (10, 106108), (11, 106105),

Gene: Nibley\_211 Start: 101671, Stop: 101345, Start Num: 1  
Candidate Starts for Nibley\_211:  
(Start: 1 @101671 has 12 MA's), (5, 101536), (8, 101461), (9, 101458), (10, 101401), (11, 101398),

Gene: Odette\_222 Start: 107131, Stop: 106805, Start Num: 1  
Candidate Starts for Odette\_222:  
(Start: 1 @107131 has 12 MA's), (5, 106996), (8, 106921), (9, 106918), (10, 106861), (11, 106858),

Gene: Porcelain\_219 Start: 103380, Stop: 103054, Start Num: 1  
Candidate Starts for Porcelain\_219:  
(Start: 1 @103380 has 12 MA's), (5, 103245), (8, 103170), (9, 103167), (10, 103110), (11, 103107),

Gene: Pound\_210 Start: 104474, Stop: 104148, Start Num: 1  
Candidate Starts for Pound\_210:  
(Start: 1 @104474 has 12 MA's), (5, 104339), (8, 104264), (9, 104261), (10, 104204), (11, 104201),

Gene: Schatzie\_212 Start: 105010, Stop: 104684, Start Num: 1  
Candidate Starts for Schatzie\_212:  
(Start: 1 @105010 has 12 MA's), (5, 104875), (8, 104800), (9, 104797), (10, 104740), (11, 104737),

Gene: Shaboozey\_219 Start: 102942, Stop: 102616, Start Num: 1  
Candidate Starts for Shaboozey\_219:  
(Start: 1 @102942 has 12 MA's), (5, 102807), (8, 102732), (9, 102729), (10, 102672), (11, 102669),

Gene: ThreeRngTarjay\_220 Start: 107485, Stop: 107159, Start Num: 1  
Candidate Starts for ThreeRngTarjay\_220:  
(Start: 1 @107485 has 12 MA's), (5, 107350), (8, 107275), (9, 107272), (10, 107215), (11, 107212),