



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 311883 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311883 has 30 members, 6 are drafts.

Phages represented in each track:

- Track 1 : LRRHood\_223, Spud\_224, Grasshills\_238, BigCity\_239, Nappy\_232, Lunareta\_229, ParkTD\_229, Catera\_222, Dessert\_228, Lethe\_230, MikeLiesIn\_232, Montpel\_229, LifeSavor\_230, Dandelion\_238, Phusco\_229, Bxz1\_219, Ronan\_226, Wally\_228, MoMoMixon\_228, Ghost\_231, ScottMcG\_224, Grungle\_214, EggyFarm\_239, Cali\_223, Tyke\_229, Littleton\_233
- Track 2 : ET08\_218, Alice\_217, BackyardAgain\_227
- Track 3 : Jezreel\_227

### ***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 23 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alice\_217, BackyardAgain\_227, BigCity\_239, Bxz1\_219, Cali\_223, Catera\_222, Dandelion\_238, Dessert\_228, ET08\_218, EggyFarm\_239, Ghost\_231, Grasshills\_238, Grungle\_214, LRRHood\_223, Lethe\_230, LifeSavor\_230, Littleton\_233, Lunareta\_229, MikeLiesIn\_232, MoMoMixon\_228, Montpel\_229, Nappy\_232, ParkTD\_229, Phusco\_229, Ronan\_226, ScottMcG\_224, Spud\_224, Tyke\_229, Wally\_228,

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

- Jezreel\_227,

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

- 

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

Start 4:

- Found in 1 of 30 ( 3.3% ) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jezreel\_227 (C1),

Start 6:

- Found in 30 of 30 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 23 of 24
- Called 96.7% of time when present
- Phage (with cluster) where this start called: Alice\_217 (C1), BackyardAgain\_227 (C1), BigCity\_239 (C1), Bxz1\_219 (C1), Cali\_223 (C1), Catera\_222 (C1), Dandelion\_238 (C1), Dessert\_228 (C1), ET08\_218 (C1), EggyFarm\_239 (C1), Ghost\_231 (C1), Grasshills\_238 (C1), Grungle\_214 (C1), LRRHood\_223 (C1), Lethe\_230 (C1), LifeSavor\_230 (C1), Littleton\_233 (C1), Lunareta\_229 (C1), MikeLiesIn\_232 (C1), MoMoMixon\_228 (C1), Montpel\_229 (C1), Nappy\_232 (C1), ParkTD\_229 (C1), Phusco\_229 (C1), Ronan\_226 (C1), ScottMcG\_224 (C1), Spud\_224 (C1), Tyke\_229 (C1), Wally\_228 (C1),

### Summary by clusters:

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

- Start number 4 was manually annotated 1 time for cluster C1.
- Start number 6 was manually annotated 23 times for cluster C1.

### Gene Information:

Gene: Alice\_217 Start: 126652, Stop: 126873, Start Num: 6

Candidate Starts for Alice\_217:

(1, 126541), (2, 126553), (3, 126574), (Start: 6 @126652 has 23 MA's), (7, 126832), (8, 126847),

Gene: BackyardAgain\_227 Start: 125611, Stop: 125832, Start Num: 6

Candidate Starts for BackyardAgain\_227:

(1, 125500), (2, 125512), (3, 125533), (Start: 6 @125611 has 23 MA's), (7, 125791), (8, 125806),

Gene: BigCity\_239 Start: 130065, Stop: 130286, Start Num: 6

Candidate Starts for BigCity\_239:

(1, 129954), (2, 129966), (3, 129987), (Start: 6 @130065 has 23 MA's), (8, 130260),

Gene: Bxz1\_219 Start: 129539, Stop: 129760, Start Num: 6

Candidate Starts for Bxz1\_219:

(1, 129428), (2, 129440), (3, 129461), (Start: 6 @129539 has 23 MA's), (8, 129734),

Gene: Cali\_223 Start: 127931, Stop: 128152, Start Num: 6

Candidate Starts for Cali\_223:

(1, 127820), (2, 127832), (3, 127853), (Start: 6 @127931 has 23 MA's), (8, 128126),

Gene: Catera\_222 Start: 126673, Stop: 126894, Start Num: 6

Candidate Starts for Catera\_222:

(1, 126562), (2, 126574), (3, 126595), (Start: 6 @126673 has 23 MA's), (8, 126868),

Gene: Dandelion\_238 Start: 131091, Stop: 131312, Start Num: 6

Candidate Starts for Dandelion\_238:

(1, 130980), (2, 130992), (3, 131013), (Start: 6 @131091 has 23 MA's), (8, 131286),

Gene: Dessert\_228 Start: 127838, Stop: 128059, Start Num: 6

Candidate Starts for Dessert\_228:

(1, 127727), (2, 127739), (3, 127760), (Start: 6 @127838 has 23 MA's), (8, 128033),

Gene: ET08\_218 Start: 127757, Stop: 127978, Start Num: 6

Candidate Starts for ET08\_218:

(1, 127646), (2, 127658), (3, 127679), (Start: 6 @127757 has 23 MA's), (7, 127937), (8, 127952),

Gene: EggyFarm\_239 Start: 130066, Stop: 130287, Start Num: 6

Candidate Starts for EggyFarm\_239:

(1, 129955), (2, 129967), (3, 129988), (Start: 6 @130066 has 23 MA's), (8, 130261),

Gene: Ghost\_231 Start: 128074, Stop: 128295, Start Num: 6

Candidate Starts for Ghost\_231:

(1, 127963), (2, 127975), (3, 127996), (Start: 6 @128074 has 23 MA's), (8, 128269),

Gene: Grasshills\_238 Start: 130065, Stop: 130286, Start Num: 6

Candidate Starts for Grasshills\_238:

(1, 129954), (2, 129966), (3, 129987), (Start: 6 @130065 has 23 MA's), (8, 130260),

Gene: Grungle\_214 Start: 125396, Stop: 125617, Start Num: 6

Candidate Starts for Grungle\_214:

(1, 125285), (2, 125297), (3, 125318), (Start: 6 @125396 has 23 MA's), (8, 125591),

Gene: Jezreel\_227 Start: 128246, Stop: 128521, Start Num: 4

Candidate Starts for Jezreel\_227:

(Start: 4 @128246 has 1 MA's), (5, 128255), (Start: 6 @128300 has 23 MA's), (8, 128495),

Gene: LRRHood\_223 Start: 126907, Stop: 127128, Start Num: 6

Candidate Starts for LRRHood\_223:

(1, 126796), (2, 126808), (3, 126829), (Start: 6 @126907 has 23 MA's), (8, 127102),

Gene: Lethe\_230 Start: 129351, Stop: 129572, Start Num: 6

Candidate Starts for Lethe\_230:

(1, 129240), (2, 129252), (3, 129273), (Start: 6 @129351 has 23 MA's), (8, 129546),

Gene: LifeSavor\_230 Start: 128688, Stop: 128909, Start Num: 6

Candidate Starts for LifeSavor\_230:

(1, 128577), (2, 128589), (3, 128610), (Start: 6 @128688 has 23 MA's), (8, 128883),

Gene: Littleton\_233 Start: 128697, Stop: 128918, Start Num: 6

Candidate Starts for Littleton\_233:

(1, 128586), (2, 128598), (3, 128619), (Start: 6 @128697 has 23 MA's), (8, 128892),

Gene: Lunareta\_229 Start: 129259, Stop: 129480, Start Num: 6

Candidate Starts for Lunareta\_229:

(1, 129148), (2, 129160), (3, 129181), (Start: 6 @129259 has 23 MA's), (8, 129454),

Gene: MikeLiesIn\_232 Start: 129370, Stop: 129591, Start Num: 6

Candidate Starts for MikeLiesIn\_232:

(1, 129259), (2, 129271), (3, 129292), (Start: 6 @129370 has 23 MA's), (8, 129565),

Gene: MoMoMixon\_228 Start: 128375, Stop: 128596, Start Num: 6  
Candidate Starts for MoMoMixon\_228:  
(1, 128264), (2, 128276), (3, 128297), (Start: 6 @128375 has 23 MA's), (8, 128570),

Gene: Montpel\_229 Start: 129257, Stop: 129478, Start Num: 6  
Candidate Starts for Montpel\_229:  
(1, 129146), (2, 129158), (3, 129179), (Start: 6 @129257 has 23 MA's), (8, 129452),

Gene: Nappy\_232 Start: 129665, Stop: 129886, Start Num: 6  
Candidate Starts for Nappy\_232:  
(1, 129554), (2, 129566), (3, 129587), (Start: 6 @129665 has 23 MA's), (8, 129860),

Gene: ParkTD\_229 Start: 128460, Stop: 128681, Start Num: 6  
Candidate Starts for ParkTD\_229:  
(1, 128349), (2, 128361), (3, 128382), (Start: 6 @128460 has 23 MA's), (8, 128655),

Gene: Phusco\_229 Start: 127698, Stop: 127919, Start Num: 6  
Candidate Starts for Phusco\_229:  
(1, 127587), (2, 127599), (3, 127620), (Start: 6 @127698 has 23 MA's), (8, 127893),

Gene: Ronan\_226 Start: 126586, Stop: 126807, Start Num: 6  
Candidate Starts for Ronan\_226:  
(1, 126475), (2, 126487), (3, 126508), (Start: 6 @126586 has 23 MA's), (8, 126781),

Gene: ScottMcG\_224 Start: 127194, Stop: 127415, Start Num: 6  
Candidate Starts for ScottMcG\_224:  
(1, 127083), (2, 127095), (3, 127116), (Start: 6 @127194 has 23 MA's), (8, 127389),

Gene: Spud\_224 Start: 127534, Stop: 127755, Start Num: 6  
Candidate Starts for Spud\_224:  
(1, 127423), (2, 127435), (3, 127456), (Start: 6 @127534 has 23 MA's), (8, 127729),

Gene: Tyke\_229 Start: 130189, Stop: 130410, Start Num: 6  
Candidate Starts for Tyke\_229:  
(1, 130078), (2, 130090), (3, 130111), (Start: 6 @130189 has 23 MA's), (8, 130384),

Gene: Wally\_228 Start: 127444, Stop: 127665, Start Num: 6  
Candidate Starts for Wally\_228:  
(1, 127333), (2, 127345), (3, 127366), (Start: 6 @127444 has 23 MA's), (8, 127639),