



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 281064 Report

This analysis was run 02/07/26 on database version 634.

Pham number 281064 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : OneUp\_128
- Track 2 : Squint\_160
- Track 3 : TyDawg\_77, Diminimus\_78, Bongo\_77, FreakyGoo\_79, Dulcita\_78, LilhomieP\_77, TpudiCK\_79, Izel\_78, PegLeg\_76, Skinny\_80

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

The start number called the most often in the published annotations is 5, it was called in 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bongo\_77, Diminimus\_78, Dulcita\_78, FreakyGoo\_79, Izel\_78, LilhomieP\_77, PegLeg\_76, Skinny\_80, TpudiCK\_79, TyDawg\_77,

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:

- OneUp\_128, Squint\_160,

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

Start 3:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Squint\_160 (J),

Start 5:

- Found in 10 of 12 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 9 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bongo\_77 (M1), Diminimus\_78 (M1), Dulcita\_78 (M1), FreakyGoo\_79 (M1), Izel\_78 (M1), LilhomieP\_77 (M1), PegLeg\_76

(M1), Skinny\_80 (M1), TpudiCK\_79 (M1), TyDawg\_77 (M1),

Start 6:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: OneUp\_128 (CQ2),

### **Summary by clusters:**

There are 3 clusters represented in this pham: CQ2, J, M1,

Info for manual annotations of cluster CQ2:

- Start number 6 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster J:

- Start number 3 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster M1:

- Start number 5 was manually annotated 9 times for cluster M1.

### **Gene Information:**

Gene: Bongo\_77 Start: 49178, Stop: 49594, Start Num: 5

Candidate Starts for Bongo\_77:

(Start: 5 @49178 has 9 MA's), (8, 49331), (9, 49421), (12, 49502),

Gene: Diminimus\_78 Start: 49173, Stop: 49589, Start Num: 5

Candidate Starts for Diminimus\_78:

(Start: 5 @49173 has 9 MA's), (8, 49326), (9, 49416), (12, 49497),

Gene: Dulcita\_78 Start: 49174, Stop: 49590, Start Num: 5

Candidate Starts for Dulcita\_78:

(Start: 5 @49174 has 9 MA's), (8, 49327), (9, 49417), (12, 49498),

Gene: FreakyGoo\_79 Start: 49653, Stop: 50069, Start Num: 5

Candidate Starts for FreakyGoo\_79:

(Start: 5 @49653 has 9 MA's), (8, 49806), (9, 49896), (12, 49977),

Gene: Izel\_78 Start: 49173, Stop: 49589, Start Num: 5

Candidate Starts for Izel\_78:

(Start: 5 @49173 has 9 MA's), (8, 49326), (9, 49416), (12, 49497),

Gene: LilhomieP\_77 Start: 49657, Stop: 50073, Start Num: 5

Candidate Starts for LilhomieP\_77:

(Start: 5 @49657 has 9 MA's), (8, 49810), (9, 49900), (12, 49981),

Gene: OneUp\_128 Start: 76398, Stop: 76883, Start Num: 6

Candidate Starts for OneUp\_128:

(1, 76275), (2, 76293), (Start: 6 @76398 has 1 MA's), (7, 76539), (9, 76644), (11, 76686),

Gene: PegLeg\_76 Start: 48918, Stop: 49334, Start Num: 5  
Candidate Starts for PegLeg\_76:  
(Start: 5 @48918 has 9 MA's), (8, 49071), (9, 49161), (12, 49242),

Gene: Skinny\_80 Start: 50086, Stop: 50502, Start Num: 5  
Candidate Starts for Skinny\_80:  
(Start: 5 @50086 has 9 MA's), (8, 50239), (9, 50329), (12, 50410),

Gene: Squint\_160 Start: 85250, Stop: 85708, Start Num: 3  
Candidate Starts for Squint\_160:  
(Start: 3 @85250 has 1 MA's), (4, 85259), (9, 85523), (10, 85559), (11, 85565), (13, 85697),

Gene: TpudiCK\_79 Start: 49177, Stop: 49593, Start Num: 5  
Candidate Starts for TpudiCK\_79:  
(Start: 5 @49177 has 9 MA's), (8, 49330), (9, 49420), (12, 49501),

Gene: TyDawg\_77 Start: 49178, Stop: 49594, Start Num: 5  
Candidate Starts for TyDawg\_77:  
(Start: 5 @49178 has 9 MA's), (8, 49331), (9, 49421), (12, 49502),