



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 216678 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216678 has 15 members, 3 are drafts.

Phages represented in each track:

- Track 1 : FreakyGoo\_127, SlimJimmy\_128, TyDawg\_124, Bongo\_128, Auspice\_129, Bricole\_131, Glaske16\_131, Dulcita\_129, PegLeg\_132, Diminimus\_129, Skinny\_135, KleverKiS\_132, IPhane7\_127, LilhomieP\_129
- Track 2 : Izel\_127

### ***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:

- Auspice\_129, Bongo\_128, Bricole\_131, Diminimus\_129, Dulcita\_129, FreakyGoo\_127, Glaske16\_131, IPhane7\_127, KleverKiS\_132, LilhomieP\_129, PegLeg\_132, Skinny\_135, SlimJimmy\_128, TyDawg\_124,

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

- Izel\_127,

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

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

Start 1:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 12
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Auspice\_129 (M1), Bongo\_128 (M1), Bricole\_131 (M1), Diminimus\_129 (M1), Dulcita\_129 (M1), FreakyGoo\_127 (M1), Glaske16\_131 (M1), IPhane7\_127 (M1), KleverKiS\_132 (M1), LilhomieP\_129 (M1), PegLeg\_132 (M1), Skinny\_135 (M1), SlimJimmy\_128 (M1), TyDawg\_124 (M1),

Start 2:

- 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: Izel\_127 (M1),

### Summary by clusters:

There is one cluster represented in this pham: M1

Info for manual annotations of cluster M1:

- Start number 1 was manually annotated 12 times for cluster M1.

### Gene Information:

Gene: Auspice\_129 Start: 67226, Stop: 67564, Start Num: 1

Candidate Starts for Auspice\_129:

(Start: 1 @67226 has 12 MA's), (2, 67250), (3, 67292), (4, 67313), (5, 67331), (6, 67448), (7, 67463), (8, 67469), (9, 67484), (10, 67499), (11, 67508),

Gene: Bongo\_128 Start: 66842, Stop: 67180, Start Num: 1

Candidate Starts for Bongo\_128:

(Start: 1 @66842 has 12 MA's), (2, 66866), (3, 66908), (4, 66929), (5, 66947), (6, 67064), (7, 67079), (8, 67085), (9, 67100), (10, 67115), (11, 67124),

Gene: Bricole\_131 Start: 66990, Stop: 67328, Start Num: 1

Candidate Starts for Bricole\_131:

(Start: 1 @66990 has 12 MA's), (2, 67014), (3, 67056), (4, 67077), (5, 67095), (6, 67212), (7, 67227), (8, 67233), (9, 67248), (10, 67263), (11, 67272),

Gene: Diminimus\_129 Start: 66658, Stop: 66996, Start Num: 1

Candidate Starts for Diminimus\_129:

(Start: 1 @66658 has 12 MA's), (2, 66682), (3, 66724), (4, 66745), (5, 66763), (6, 66880), (7, 66895), (8, 66901), (9, 66916), (10, 66931), (11, 66940),

Gene: Dulcita\_129 Start: 66659, Stop: 66997, Start Num: 1

Candidate Starts for Dulcita\_129:

(Start: 1 @66659 has 12 MA's), (2, 66683), (3, 66725), (4, 66746), (5, 66764), (6, 66881), (7, 66896), (8, 66902), (9, 66917), (10, 66932), (11, 66941),

Gene: FreakyGoo\_127 Start: 67143, Stop: 67481, Start Num: 1

Candidate Starts for FreakyGoo\_127:

(Start: 1 @67143 has 12 MA's), (2, 67167), (3, 67209), (4, 67230), (5, 67248), (6, 67365), (7, 67380), (8, 67386), (9, 67401), (10, 67416), (11, 67425),

Gene: Glaske16\_131 Start: 67777, Stop: 68115, Start Num: 1

Candidate Starts for Glaske16\_131:

(Start: 1 @67777 has 12 MA's), (2, 67801), (3, 67843), (4, 67864), (5, 67882), (6, 67999), (7, 68014), (8, 68020), (9, 68035), (10, 68050), (11, 68059),

Gene: IPhane7\_127 Start: 66842, Stop: 67180, Start Num: 1

Candidate Starts for IPhane7\_127:

(Start: 1 @66842 has 12 MA's), (2, 66866), (3, 66908), (4, 66929), (5, 66947), (6, 67064), (7, 67079), (8, 67085), (9, 67100), (10, 67115), (11, 67124),

Gene: Izel\_127 Start: 66682, Stop: 66996, Start Num: 2

Candidate Starts for Izel\_127:

(Start: 1 @66658 has 12 MA's), (2, 66682), (3, 66724), (4, 66745), (5, 66763), (6, 66880), (7, 66895), (8, 66901), (9, 66916), (10, 66931), (11, 66940),

Gene: KleverKiS\_132 Start: 68327, Stop: 68665, Start Num: 1

Candidate Starts for KleverKiS\_132:

(Start: 1 @68327 has 12 MA's), (2, 68351), (3, 68393), (4, 68414), (5, 68432), (6, 68549), (7, 68564), (8, 68570), (9, 68585), (10, 68600), (11, 68609),

Gene: LilhomieP\_129 Start: 68120, Stop: 68458, Start Num: 1

Candidate Starts for LilhomieP\_129:

(Start: 1 @68120 has 12 MA's), (2, 68144), (3, 68186), (4, 68207), (5, 68225), (6, 68342), (7, 68357), (8, 68363), (9, 68378), (10, 68393), (11, 68402),

Gene: PegLeg\_132 Start: 68004, Stop: 68342, Start Num: 1

Candidate Starts for PegLeg\_132:

(Start: 1 @68004 has 12 MA's), (2, 68028), (3, 68070), (4, 68091), (5, 68109), (6, 68226), (7, 68241), (8, 68247), (9, 68262), (10, 68277), (11, 68286),

Gene: Skinny\_135 Start: 69121, Stop: 69459, Start Num: 1

Candidate Starts for Skinny\_135:

(Start: 1 @69121 has 12 MA's), (2, 69145), (3, 69187), (4, 69208), (5, 69226), (6, 69343), (7, 69358), (8, 69364), (9, 69379), (10, 69394), (11, 69403),

Gene: SlimJimmy\_128 Start: 67830, Stop: 68168, Start Num: 1

Candidate Starts for SlimJimmy\_128:

(Start: 1 @67830 has 12 MA's), (2, 67854), (3, 67896), (4, 67917), (5, 67935), (6, 68052), (7, 68067), (8, 68073), (9, 68088), (10, 68103), (11, 68112),

Gene: TyDawg\_124 Start: 66845, Stop: 67183, Start Num: 1

Candidate Starts for TyDawg\_124:

(Start: 1 @66845 has 12 MA's), (2, 66869), (3, 66911), (4, 66932), (5, 66950), (6, 67067), (7, 67082), (8, 67088), (9, 67103), (10, 67118), (11, 67127),