



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 297129 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297129 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Moab_125, Patelgo_127
- Track 2 : MeganTheeKilla_123, Emma1919_124, Gilson_124
- Track 3 : Francob_121
- Track 4 : DeluluLabubu_126, Kenrey_126
- Track 5 : Jada_125, Forrest_129
- Track 6 : Phredrick_124
- Track 7 : Maupel_123

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 7 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- DeluluLabubu_126, Forrest_129, Francob_121, Jada_125, Kenrey_126, Maupel_123, Moab_125, Patelgo_127,

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

- Emma1919_124, Gilson_124, MeganTheeKilla_123, Phredrick_124,

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

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Summary by start number:

Start 1:

- Found in 12 of 12 (100.0%) of genes in pham
- Manual Annotations of this start: 7 of 11
- Called 66.7% of time when present
- Phage (with cluster) where this start called: DeluluLabubu_126 (BK1), Forrest_129 (BK1), Francob_121 (BK1), Jada_125 (BK1), Kenrey_126 (BK1), Maupel_123 (BK1), Moab_125 (BK1), Patelgo_127 (BK1),

Start 2:

- Found in 9 of 12 (75.0%) of genes in pham
- Manual Annotations of this start: 4 of 11
- Called 44.4% of time when present
- Phage (with cluster) where this start called: Emma1919_124 (BK1), Gilson_124 (BK1), MeganTheeKilla_123 (BK1), Phredrick_124 (BK1),

Summary by clusters:

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:

- Start number 1 was manually annotated 7 times for cluster BK1.
- Start number 2 was manually annotated 4 times for cluster BK1.

Gene Information:

Gene: DeluluLabubu_126 Start: 76132, Stop: 76326, Start Num: 1

Candidate Starts for DeluluLabubu_126:

(Start: 1 @76132 has 7 MA's), (Start: 2 @76150 has 4 MA's), (3, 76180), (5, 76198), (6, 76225), (7, 76231), (8, 76237),

Gene: Emma1919_124 Start: 75111, Stop: 75287, Start Num: 2

Candidate Starts for Emma1919_124:

(Start: 1 @75093 has 7 MA's), (Start: 2 @75111 has 4 MA's), (3, 75141), (5, 75159), (6, 75186), (7, 75192), (10, 75276),

Gene: Forrest_129 Start: 77900, Stop: 78094, Start Num: 1

Candidate Starts for Forrest_129:

(Start: 1 @77900 has 7 MA's), (Start: 2 @77918 has 4 MA's), (3, 77948), (5, 77966), (6, 77993), (7, 77999), (8, 78005), (9, 78059),

Gene: Francob_121 Start: 75354, Stop: 75545, Start Num: 1

Candidate Starts for Francob_121:

(Start: 1 @75354 has 7 MA's), (3, 75399), (4, 75411), (5, 75417), (6, 75444), (7, 75450), (10, 75534),

Gene: Gilson_124 Start: 75073, Stop: 75249, Start Num: 2

Candidate Starts for Gilson_124:

(Start: 1 @75055 has 7 MA's), (Start: 2 @75073 has 4 MA's), (3, 75103), (5, 75121), (6, 75148), (7, 75154), (10, 75238),

Gene: Jada_125 Start: 76830, Stop: 77024, Start Num: 1

Candidate Starts for Jada_125:

(Start: 1 @76830 has 7 MA's), (Start: 2 @76848 has 4 MA's), (3, 76878), (5, 76896), (6, 76923), (7, 76929), (8, 76935), (9, 76989),

Gene: Kenrey_126 Start: 76223, Stop: 76417, Start Num: 1

Candidate Starts for Kenrey_126:

(Start: 1 @76223 has 7 MA's), (Start: 2 @76241 has 4 MA's), (3, 76271), (5, 76289), (6, 76316), (7, 76322), (8, 76328),

Gene: Maupel_123 Start: 75055, Stop: 75249, Start Num: 1

Candidate Starts for Maupel_123:

(Start: 1 @75055 has 7 MA's), (Start: 2 @75073 has 4 MA's), (3, 75103), (5, 75121), (6, 75148), (7, 75154), (10, 75238),

Gene: MeganTheeKilla_123 Start: 75278, Stop: 75454, Start Num: 2

Candidate Starts for MeganTheeKilla_123:

(Start: 1 @75260 has 7 MA's), (Start: 2 @75278 has 4 MA's), (3, 75308), (5, 75326), (6, 75353), (7, 75359), (10, 75443),

Gene: Moab_125 Start: 77767, Stop: 77961, Start Num: 1

Candidate Starts for Moab_125:

(Start: 1 @77767 has 7 MA's), (3, 77815), (5, 77833), (6, 77860), (7, 77866), (10, 77950),

Gene: Patelgo_127 Start: 77997, Stop: 78191, Start Num: 1

Candidate Starts for Patelgo_127:

(Start: 1 @77997 has 7 MA's), (3, 78045), (5, 78063), (6, 78090), (7, 78096), (10, 78180),

Gene: Phredrick_124 Start: 74874, Stop: 75050, Start Num: 2

Candidate Starts for Phredrick_124:

(Start: 1 @74856 has 7 MA's), (Start: 2 @74874 has 4 MA's), (3, 74904), (5, 74922), (6, 74949), (7, 74955), (8, 74961), (10, 75039),