Pham 106659


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 106659 Report

This analysis was run 04/05/24 on database version 557.
Pham number 106659 has 18 members, 2 are drafts.
Phages represented in each track:

- Track 1 : Ellson_117, MiniLon_123, MiniMac_123
- Track 2 : Jubie_117, Clautastrophe_116, Lumos_117, Snenia_116, MsGreen_118
- Track 3 : Nicholas_115, Samty_117, Moostard_113, Kingsolomon_115, Bellis_116, Finnry_117
- Track 4 : Whirlwind_119
- Track 5 : DuncansLēg_119
- Track 6 : Krypton555_121
- Track 7 : Lolly9_118


## 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 15 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bellis_116, Clautastrophe_116, DuncansLeg_119, Ellson_117, Finnry_117, Jubie_117, Kingsolomon_115, Krypton555_121, Lumos_117, MiniLon_123, MiniMac_123, Moostard_113, MsGreen_118, Nicholas_115, Samty_117, Snenia_116, Whirlwind_119,

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

- Lolly9_118,

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

## Summary by start number:

Start 1:

- Found in 18 of 18 ( $100.0 \%$ ) of genes in pham
- Manual Annotations of this start: 15 of 16
- Called $94.4 \%$ of time when present
- Phage (with cluster) where this start called: Bellis 116 (L3), Clautastrophe_116 (L3), DuncansLeg_119 (L3), Ellson_117 (L3), Finnry_117 (L3), Jubie_117 (L3),

Kingsolomon_115 (L3), Krypton555_121 (L3), Lumos_117 (L3), MiniLon_123 (L3), MiniMac_123 (L3), Moostard_113 (L3), MsGreen_118(L3), Nicholas_115 (L3), Samty_117 (L3), Snenia_116 (L3), Whirlwind_119 (L3),

Start 2:

- Found in 18 of 18 ( $100.0 \%$ ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called $5.6 \%$ of time when present
- Phage (with cluster) where this start called: Lolly9_118 (L3),


## Summary by clusters:

There is one cluster represented in this pham: L3
Info for manual annotations of cluster L3:

- Start number 1 was manually annotated 15 times for cluster L3.
- Start number 2 was manually annotated 1 time for cluster L3.


## Gene Information:

Gene: Bellis_116 Start: 65861, Stop: 65616, Start Num: 1
Candidate Starts for Bellis_116:
(Start: 1 @65861 has 15 MA's), (Start: 2 @65792 has 1 MA's), (6, 65708), (7, 65690),
Gene: Clautastrophe_116 Start: 65863, Stop: 65615, Start Num: 1
Candidate Starts for Clautastrophe_116:
(Start: 1 @65863 has 15 MA's), (Start: 2 @65791 has 1 MA's), (4, 65740), (5, 65722),
Gene: DuncansLeg_119 Start: 66036, Stop: 65791, Start Num: 1
Candidate Starts for DuncansLeg_119:
(Start: 1 @66036 has 15 MA's), (Start: 2 @65967 has 1 MA's), (3, 65922), (6, 65883), (7, 65865),
Gene: Ellson_117 Start: 66293, Stop: 66048, Start Num: 1
Candidate Starts for Ellson_117:
(Start: 1 @66293 has 15 MA's), (Start: 2 @66224 has 1 MA's), (3, 66179), (6, 66140), (7, 66122),
Gene: Finnry_117 Start: 66209, Stop: 65964, Start Num: 1
Candidate Starts for Finnry_117:
(Start: 1 @66209 has 15 MA's), (Start: 2 @66140 has 1 MA's), (6, 66056), (7, 66038),
Gene: Jubie_117 Start: 65996, Stop: 65748, Start Num: 1
Candidate Starts for Jubie_117:
(Start: 1 @65996 has 15 MA's), (Start: 2 @65924 has 1 MA's), (4, 65873), (5, 65855),
Gene: Kingsolomon_115 Start: 65965, Stop: 65720, Start Num: 1
Candidate Starts for Kingsolomon_115:
(Start: 1 @65965 has 15 MA's), (Start: 2 @65896 has 1 MA's), (6, 65812), (7, 65794),
Gene: Krypton555_121 Start: 66341, Stop: 66096, Start Num: 1
Candidate Starts for Krypton555_121:
(Start: 1 @66341 has 15 MA's), (Start: 2 @66272 has 1 MA's), (6, 66188), (7, 66170),

Gene: Lolly9_118 Start: 66315, Stop: 66139, Start Num: 2
Candidate Starts for Lolly9_118:
(Start: 1 @66384 has 15 MA's), (Start: 2 @66315 has 1 MA's), (3, 66270), (6, 66231), (7, 66213),
Gene: Lumos_117 Start: 65858, Stop: 65610, Start Num: 1
Candidate Starts for Lumos_117:
(Start: 1 @65858 has 15 MA's), (Start: 2 @65786 has 1 MA's), (4, 65735), (5, 65717),
Gene: MiniLon_123 Start: 66385, Stop: 66140, Start Num: 1
Candidate Starts for MiniLon_123:
(Start: 1 @66385 has 15 MA's), (Start: 2 @66316 has 1 MA's), (3, 66271), (6, 66232), (7, 66214),
Gene: MiniMac_123 Start: 66387, Stop: 66142, Start Num: 1
Candidate Starts for MiniMac_123:
(Start: 1 @66387 has 15 MA's), (Start: 2 @66318 has 1 MA's), (3, 66273), (6, 66234), (7, 66216),
Gene: Moostard_113 Start: 65960, Stop: 65715, Start Num: 1
Candidate Starts for Moostard_113:
(Start: 1 @65960 has 15 MA's), (Start: 2 @65891 has 1 MA's), (6, 65807), (7, 65789),
Gene: MsGreen_118 Start: 65860, Stop: 65612, Start Num: 1
Candidate Starts for MsGreen_118:
(Start: 1 @65860 has 15 MA's), (Start: 2 @65788 has 1 MA's), (4, 65737), (5, 65719),
Gene: Nicholas_115 Start: 65965, Stop: 65720, Start Num: 1
Candidate Starts for Nicholas_115:
(Start: 1 @65965 has 15 MA's), (Start: 2 @65896 has 1 MA's), (6, 65812), (7, 65794),
Gene: Samty_117 Start: 65952, Stop: 65707, Start Num: 1
Candidate Starts for Samty_117:
(Start: 1 @65952 has 15 MA's), (Start: 2 @65883 has 1 MA's), (6, 65799), (7, 65781),
Gene: Snenia_116 Start: 65862, Stop: 65614, Start Num: 1
Candidate Starts for Snenia_116:
(Start: 1 @65862 has 15 MA's), (Start: 2 @65790 has 1 MA's), (4, 65739), (5, 65721),
Gene: Whirlwind_119 Start: 66332, Stop: 66084, Start Num: 1
Candidate Starts for Whirlwind_119:
(Start: 1 @66332 has 15 MA's), (Start: 2 @66260 has 1 MA's), (5, 66191),

