



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 309817 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309817 has 9 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Gilson_143
- Track 2 : Maupel_143, Emma1919_143
- Track 3 : Muntaha_175, Wakanda_173
- Track 4 : Circinus_164, BillNye_163, Chaewon_171
- Track 5 : Garnacho_137

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

The start number called the most often in the published annotations is 3, it was called in 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BillNye_163, Chaewon_171, Circinus_164, Emma1919_143, Maupel_143, Muntaha_175, Wakanda_173,

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

- Gilson_143,

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

- Garnacho_137,

Summary by start number:

Start 3:

- Found in 8 of 9 (88.9%) of genes in pham
- Manual Annotations of this start: 6 of 8
- Called 87.5% of time when present
- Phage (with cluster) where this start called: BillNye_163 (BK2), Chaewon_171 (BK2), Circinus_164 (BK2), Emma1919_143 (BK1), Maupel_143 (BK1), Muntaha_175 (BK2), Wakanda_173 (BK2),

Start 6:

- Found in 3 of 9 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 8

- Called 33.3% of time when present
- Phage (with cluster) where this start called: Gilson_143 (BK1),

Start 7:

- Found in 1 of 9 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Garnacho_137 (BS),

Summary by clusters:

There are 3 clusters represented in this pham: BK1, BK2, BS,

Info for manual annotations of cluster BK1:

- Start number 3 was manually annotated 1 time for cluster BK1.
- Start number 6 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 3 was manually annotated 5 times for cluster BK2.

Info for manual annotations of cluster BS:

- Start number 7 was manually annotated 1 time for cluster BS.

Gene Information:

Gene: BillNye_163 Start: 92588, Stop: 92956, Start Num: 3

Candidate Starts for BillNye_163:

(Start: 3 @92588 has 6 MA's), (4, 92594), (12, 92813), (14, 92858), (16, 92870), (18, 92921),

Gene: Chaewon_171 Start: 93279, Stop: 93647, Start Num: 3

Candidate Starts for Chaewon_171:

(Start: 3 @93279 has 6 MA's), (4, 93285), (12, 93504), (14, 93549), (16, 93561), (18, 93612),

Gene: Circinus_164 Start: 92554, Stop: 92922, Start Num: 3

Candidate Starts for Circinus_164:

(Start: 3 @92554 has 6 MA's), (4, 92560), (12, 92779), (14, 92824), (16, 92836), (18, 92887),

Gene: Emma1919_143 Start: 80605, Stop: 80967, Start Num: 3

Candidate Starts for Emma1919_143:

(Start: 3 @80605 has 6 MA's), (Start: 6 @80623 has 1 MA's), (12, 80821), (13, 80857), (16, 80878), (17, 80887),

Gene: Garnacho_137 Start: 78232, Stop: 78561, Start Num: 7

Candidate Starts for Garnacho_137:

(1, 78157), (5, 78196), (Start: 7 @78232 has 1 MA's), (9, 78331), (11, 78379), (15, 78475),

Gene: Gilson_143 Start: 80585, Stop: 80929, Start Num: 6

Candidate Starts for Gilson_143:

(Start: 3 @80567 has 6 MA's), (Start: 6 @80585 has 1 MA's), (12, 80783), (13, 80819), (16, 80840), (17, 80849),

Gene: Maupel_143 Start: 80567, Stop: 80929, Start Num: 3

Candidate Starts for Maupel_143:

(Start: 3 @80567 has 6 MA's), (Start: 6 @80585 has 1 MA's), (12, 80783), (13, 80819), (16, 80840), (17, 80849),

Gene: Muntaha_175 Start: 91675, Stop: 92028, Start Num: 3

Candidate Starts for Muntaha_175:

(2, 91666), (Start: 3 @91675 has 6 MA's), (8, 91753), (10, 91828), (12, 91891), (13, 91927),

Gene: Wakanda_173 Start: 91355, Stop: 91708, Start Num: 3

Candidate Starts for Wakanda_173:

(2, 91346), (Start: 3 @91355 has 6 MA's), (8, 91433), (10, 91508), (12, 91571), (13, 91607),