

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 197031 Report

This analysis was run 12/09/24 on database version 580.

Pham number 197031 has 11 members, 3 are drafts.

Phages represented in each track:

• Track 1 : HangryHippo_224, BlueOtter_224, Cursive_229, Scheme_229,

Watermoore_225, Cross_225

• Track 2 : Gibbi_246

Track 3 : Mugiwara_250

Track 4: Francob_177, Gilson_180

• Track 5 : Moab_178

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

The start number called the most often in the published annotations is 4, it was called in 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• BlueOtter_224, Cross_225, Cursive_229, HangryHippo_224, Mugiwara_250, Scheme_229, Watermoore_225,

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

• Gibbi 246,

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

Francob_177, Gilson_180, Moab_178,

Summary by start number:

Start 2:

- Found in 2 of 11 (18.2%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Gibbi_246 (BE2),

Start 4:

- Found in 8 of 11 (72.7%) of genes in pham
- Manual Annotations of this start: 5 of 8
- Called 87.5% of time when present

 Phage (with cluster) where this start called: BlueOtter_224 (BE1), Cross_225 (BE1), Cursive_229 (BE1), HangryHippo_224 (BE1), Mugiwara_250 (BE2), Scheme_229 (BE1), Watermoore_225 (BE1),

Start 7:

- Found in 3 of 11 (27.3%) of genes in pham
- Manual Annotations of this start: 3 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Francob_177 (BK1), Gilson_180 (BK1), Moab_178 (BK1),

Summary by clusters:

There are 3 clusters represented in this pham: BE2, BE1, BK1,

Info for manual annotations of cluster BE1:

•Start number 4 was manually annotated 5 times for cluster BE1.

Info for manual annotations of cluster BK1:

•Start number 7 was manually annotated 3 times for cluster BK1.

(1, 113437), (Start: 4 @113515 has 5 MA's), (8, 113578), (12, 113659),

Gene Information:

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Gene: BlueOtter 224 Start: 113515, Stop: 113667, Start Num: 4
Candidate Starts for BlueOtter 224:
(1, 113437), (Start: 4 @113515 has 5 MA's), (8, 113578), (12, 113659),
Gene: Cross_225 Start: 114160, Stop: 114312, Start Num: 4
Candidate Starts for Cross 225:
(1, 114082), (Start: 4 @ 114160 has 5 MA's), (8, 114223), (12, 114304),
Gene: Cursive 229 Start: 114267, Stop: 114419, Start Num: 4
Candidate Starts for Cursive_229:
(1, 114189), (Start: 4 @114267 has 5 MA's), (8, 114330), (12, 114411),
Gene: Francob 177 Start: 94050, Stop: 94172, Start Num: 7
Candidate Starts for Francob 177:
(1, 93933), (3, 93999), (6, 94023), (Start: 7 @94050 has 3 MA's), (12, 94164),
Gene: Gibbi 246 Start: 112069, Stop: 112251, Start Num: 2
Candidate Starts for Gibbi 246:
(1, 112021), (2, 112069), (Start: 4 @ 112099 has 5 MA's), (5, 112108), (9, 112165), (12, 112243),
Gene: Gilson_180 Start: 94021, Stop: 94143, Start Num: 7
Candidate Starts for Gilson 180:
(1, 93904), (3, 93970), (6, 93994), (Start: 7 @94021 has 3 MA's), (12, 94135),
Gene: HangryHippo 224 Start: 113515, Stop: 113667, Start Num: 4
Candidate Starts for HangryHippo 224:
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Gene: Moab_178 Start: 96530, Stop: 96652, Start Num: 7 Candidate Starts for Moab_178: (1, 96413), (3, 96479), (6, 96503), (Start: 7 @96530 has 3 MA's), (10, 96629), (11, 96641), (12, 96644),

Gene: Mugiwara_250 Start: 114313, Stop: 114465, Start Num: 4 Candidate Starts for Mugiwara_250: (1, 114235), (2, 114283), (Start: 4 @114313 has 5 MA's), (5, 114322), (9, 114379), (12, 114457),

Gene: Scheme_229 Start: 115451, Stop: 115603, Start Num: 4 Candidate Starts for Scheme_229: (1, 115373), (Start: 4 @115451 has 5 MA's), (8, 115514), (12, 115595),

Gene: Watermoore_225 Start: 115158, Stop: 115310, Start Num: 4 Candidate Starts for Watermoore_225: (1, 115080), (Start: 4 @115158 has 5 MA's), (8, 115221), (12, 115302),