



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 216549 Report

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

Pham number 216549 has 22 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Thibault_146, Redno2_157, Dove_150, Phoebus_164
- Track 2 : Lucky2013_157, Courthouse_158
- Track 3 : Optimus_159, Beem_164, Kalah2_159, BAKA_168, Hughesyang_162, Omega_172, ThreeRngTarjay_160, Schatzie_158, Klein_166, Constella_159, EricMillard_161, Ejimix_154, Duke13_165, Halley_164, Wanda_161
- Track 4 : Gonephishing_155

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 19 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BAKA_168, Beem_164, Constella_159, Dove_150, Duke13_165, Ejimix_154, EricMillard_161, Halley_164, Hughesyang_162, Kalah2_159, Klein_166, Omega_172, Optimus_159, Phoebus_164, Redno2_157, Schatzie_158, Thibault_146, ThreeRngTarjay_160, Wanda_161,

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

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

- Courthouse_158, Gonephishing_155, Lucky2013_157,

Summary by start number:

Start 2:

- Found in 3 of 22 (13.6%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Gonephishing_155 (J),

Start 3:

- Found in 19 of 22 (86.4%) of genes in pham

- Manual Annotations of this start: 19 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAKA_168 (J), Beem_164 (J), Constella_159 (J), Dove_150 (J), Duke13_165 (J), Ejimix_154 (J), EricMillard_161 (J), Halley_164 (J), Hughesyang_162 (J), Kalah2_159 (J), Klein_166 (J), Omega_172 (J), Optimus_159 (J), Phoebus_164 (J), Redno2_157 (J), Schatzie_158 (J), Thibault_146 (J), ThreeRngTarjay_160 (J), Wanda_161 (J),

Start 4:

- Found in 3 of 22 (13.6%) of genes in pham
- Manual Annotations of this start: 2 of 21
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Courthouse_158 (J), Lucky2013_157 (J),

Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 3 was manually annotated 19 times for cluster J.
- Start number 4 was manually annotated 2 times for cluster J.

Gene Information:

Gene: BAKA_168 Start: 87886, Stop: 88200, Start Num: 3

Candidate Starts for BAKA_168:

(Start: 3 @87886 has 19 MA's), (5, 87955), (8, 88072),

Gene: Beem_164 Start: 87883, Stop: 88197, Start Num: 3

Candidate Starts for Beem_164:

(Start: 3 @87883 has 19 MA's), (5, 87952), (8, 88069),

Gene: Constella_159 Start: 86642, Stop: 86956, Start Num: 3

Candidate Starts for Constella_159:

(Start: 3 @86642 has 19 MA's), (5, 86711), (8, 86828),

Gene: Courthouse_158 Start: 83473, Stop: 83730, Start Num: 4

Candidate Starts for Courthouse_158:

(1, 83395), (2, 83410), (Start: 4 @83473 has 2 MA's), (5, 83485), (6, 83515), (7, 83560), (9, 83605), (10, 83653),

Gene: Dove_150 Start: 82469, Stop: 82783, Start Num: 3

Candidate Starts for Dove_150:

(Start: 3 @82469 has 19 MA's), (5, 82538), (8, 82655),

Gene: Duke13_165 Start: 86382, Stop: 86696, Start Num: 3

Candidate Starts for Duke13_165:

(Start: 3 @86382 has 19 MA's), (5, 86451), (8, 86568),

Gene: Ejimix_154 Start: 86094, Stop: 86408, Start Num: 3

Candidate Starts for Ejimix_154:

(Start: 3 @86094 has 19 MA's), (5, 86163), (8, 86280),

Gene: EricMillard_161 Start: 87725, Stop: 88039, Start Num: 3

Candidate Starts for EricMillard_161:

(Start: 3 @87725 has 19 MA's), (5, 87794), (8, 87911),

Gene: Gonephishing_155 Start: 84870, Stop: 85190, Start Num: 2

Candidate Starts for Gonephishing_155:

(1, 84855), (2, 84870), (Start: 4 @84933 has 2 MA's), (5, 84945), (6, 84975), (7, 85020), (9, 85065), (10, 85113),

Gene: Halley_164 Start: 86410, Stop: 86724, Start Num: 3

Candidate Starts for Halley_164:

(Start: 3 @86410 has 19 MA's), (5, 86479), (8, 86596),

Gene: Hughesyang_162 Start: 86917, Stop: 87231, Start Num: 3

Candidate Starts for Hughesyang_162:

(Start: 3 @86917 has 19 MA's), (5, 86986), (8, 87103),

Gene: Kalah2_159 Start: 87313, Stop: 87627, Start Num: 3

Candidate Starts for Kalah2_159:

(Start: 3 @87313 has 19 MA's), (5, 87382), (8, 87499),

Gene: Klein_166 Start: 85673, Stop: 85987, Start Num: 3

Candidate Starts for Klein_166:

(Start: 3 @85673 has 19 MA's), (5, 85742), (8, 85859),

Gene: Lucky2013_157 Start: 82436, Stop: 82693, Start Num: 4

Candidate Starts for Lucky2013_157:

(1, 82358), (2, 82373), (Start: 4 @82436 has 2 MA's), (5, 82448), (6, 82478), (7, 82523), (9, 82568), (10, 82616),

Gene: Omega_172 Start: 88730, Stop: 89044, Start Num: 3

Candidate Starts for Omega_172:

(Start: 3 @88730 has 19 MA's), (5, 88799), (8, 88916),

Gene: Optimus_159 Start: 86202, Stop: 86516, Start Num: 3

Candidate Starts for Optimus_159:

(Start: 3 @86202 has 19 MA's), (5, 86271), (8, 86388),

Gene: Phoebus_164 Start: 89651, Stop: 89965, Start Num: 3

Candidate Starts for Phoebus_164:

(Start: 3 @89651 has 19 MA's), (5, 89720), (8, 89837),

Gene: Redno2_157 Start: 83764, Stop: 84078, Start Num: 3

Candidate Starts for Redno2_157:

(Start: 3 @83764 has 19 MA's), (5, 83833), (8, 83950),

Gene: Schatzie_158 Start: 86724, Stop: 87038, Start Num: 3

Candidate Starts for Schatzie_158:

(Start: 3 @86724 has 19 MA's), (5, 86793), (8, 86910),

Gene: Thibault_146 Start: 83138, Stop: 83452, Start Num: 3

Candidate Starts for Thibault_146:

(Start: 3 @83138 has 19 MA's), (5, 83207), (8, 83324),

Gene: ThreeRngTarjay_160 Start: 87598, Stop: 87912, Start Num: 3

Candidate Starts for ThreeRngTarjay_160:

(Start: 3 @87598 has 19 MA's), (5, 87667), (8, 87784),

Gene: Wanda_161 Start: 84189, Stop: 84503, Start Num: 3

Candidate Starts for Wanda_161:

(Start: 3 @84189 has 19 MA's), (5, 84258), (8, 84375),