



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 86344 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86344 has 29 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Turj99_45, SkiPole_51, Magnito_45, Ajay_48, Peterson_51, STLscum_49, Traft412_48
- Track 2 : Oogway_45
- Track 3 : Klein_87, NihilNomen_89, Dallas_87, Wanda_91, Bombitas_76, Dove_75, Yeet_81, Kalah2_82, Constella_73, Beem_88, Schatzie_83, ThreeRngTarjay_85, DmpstrDiver_88, Phoebus_90, Halley_89
- Track 4 : JuicyJay_85, HokkenD_77, Zelink_85, Odette_86, Hughesyang_88
- Track 5 : Bagrid_87

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 14 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beem_88, Bombitas_76, Constella_73, Dallas_87, DmpstrDiver_88, Dove_75, Halley_89, Kalah2_82, Klein_87, NihilNomen_89, Phoebus_90, Schatzie_83, ThreeRngTarjay_85, Wanda_91, Yeet_81,

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

- Bagrid_87, HokkenD_77, Hughesyang_88, JuicyJay_85, Odette_86, Zelink_85,

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

- Ajay_48, Magnito_45, Oogway_45, Peterson_51, STLscum_49, SkiPole_51, Traft412_48, Turj99_45,

Summary by start number:

Start 1:

- Found in 21 of 29 (72.4%) of genes in pham
- No Manual Annotations of this start.
- Called 4.8% of time when present
- Phage (with cluster) where this start called: Bagrid_87 (J),

Start 2:

- Found in 21 of 29 (72.4%) of genes in pham
- Manual Annotations of this start: 4 of 26
- Called 23.8% of time when present
- Phage (with cluster) where this start called: HokkenD_77 (J), Hughesyang_88 (J), JuicyJay_85 (J), Odette_86 (J), Zelink_85 (J),

Start 3:

- Found in 8 of 29 (27.6%) of genes in pham
- Manual Annotations of this start: 8 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ajay_48 (A1), Magnito_45 (A1), Oogway_45 (A1), Peterson_51 (A1), STLscum_49 (A1), SkiPole_51 (A1), Traft412_48 (A1), Turj99_45 (A1),

Start 4:

- Found in 21 of 29 (72.4%) of genes in pham
- Manual Annotations of this start: 14 of 26
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Beem_88 (J), Bombitas_76 (J), Constella_73 (J), Dallas_87 (J), DmpstrDiver_88 (J), Dove_75 (J), Halley_89 (J), Kalah2_82 (J), Klein_87 (J), NihilNomen_89 (J), Phoebus_90 (J), Schatzie_83 (J), ThreeRngTarjay_85 (J), Wanda_91 (J), Yeet_81 (J),

Summary by clusters:

There are 2 clusters represented in this pham: A1, J,

Info for manual annotations of cluster A1:

- Start number 3 was manually annotated 8 times for cluster A1.

Info for manual annotations of cluster J:

- Start number 2 was manually annotated 4 times for cluster J.
- Start number 4 was manually annotated 14 times for cluster J.

Gene Information:

Gene: Ajay_48 Start: 35629, Stop: 35450, Start Num: 3

Candidate Starts for Ajay_48:

(Start: 3 @35629 has 8 MA's), (7, 35482),

Gene: Bagrid_87 Start: 55232, Stop: 55486, Start Num: 1

Candidate Starts for Bagrid_87:

(1, 55232), (Start: 2 @55283 has 4 MA's), (Start: 4 @55304 has 14 MA's), (5, 55343), (6, 55430), (7, 55445),

Gene: Beem_88 Start: 56165, Stop: 56347, Start Num: 4

Candidate Starts for Beem_88:

(1, 56093), (Start: 2 @56144 has 4 MA's), (Start: 4 @56165 has 14 MA's), (5, 56204), (6, 56291), (7, 56306),

Gene: Bombitas_76 Start: 53328, Stop: 53510, Start Num: 4

Candidate Starts for Bombitas_76:

(1, 53256), (Start: 2 @53307 has 4 MA's), (Start: 4 @53328 has 14 MA's), (5, 53367), (6, 53454), (7, 53469),

Gene: Constella_73 Start: 50302, Stop: 50484, Start Num: 4

Candidate Starts for Constella_73:

(1, 50230), (Start: 2 @50281 has 4 MA's), (Start: 4 @50302 has 14 MA's), (5, 50341), (6, 50428), (7, 50443),

Gene: Dallas_87 Start: 55086, Stop: 55268, Start Num: 4

Candidate Starts for Dallas_87:

(1, 55014), (Start: 2 @55065 has 4 MA's), (Start: 4 @55086 has 14 MA's), (5, 55125), (6, 55212), (7, 55227),

Gene: DmpstrDiver_88 Start: 55500, Stop: 55682, Start Num: 4

Candidate Starts for DmpstrDiver_88:

(1, 55428), (Start: 2 @55479 has 4 MA's), (Start: 4 @55500 has 14 MA's), (5, 55539), (6, 55626), (7, 55641),

Gene: Dove_75 Start: 51594, Stop: 51776, Start Num: 4

Candidate Starts for Dove_75:

(1, 51522), (Start: 2 @51573 has 4 MA's), (Start: 4 @51594 has 14 MA's), (5, 51633), (6, 51720), (7, 51735),

Gene: Halley_89 Start: 56165, Stop: 56347, Start Num: 4

Candidate Starts for Halley_89:

(1, 56093), (Start: 2 @56144 has 4 MA's), (Start: 4 @56165 has 14 MA's), (5, 56204), (6, 56291), (7, 56306),

Gene: HokkenD_77 Start: 54413, Stop: 54616, Start Num: 2

Candidate Starts for HokkenD_77:

(1, 54362), (Start: 2 @54413 has 4 MA's), (Start: 4 @54434 has 14 MA's), (5, 54473), (6, 54560), (7, 54575),

Gene: Hughesyang_88 Start: 56102, Stop: 56305, Start Num: 2

Candidate Starts for Hughesyang_88:

(1, 56051), (Start: 2 @56102 has 4 MA's), (Start: 4 @56123 has 14 MA's), (5, 56162), (6, 56249), (7, 56264),

Gene: JuicyJay_85 Start: 57278, Stop: 57481, Start Num: 2

Candidate Starts for JuicyJay_85:

(1, 57227), (Start: 2 @57278 has 4 MA's), (Start: 4 @57299 has 14 MA's), (5, 57338), (6, 57425), (7, 57440),

Gene: Kalah2_82 Start: 55458, Stop: 55640, Start Num: 4

Candidate Starts for Kalah2_82:

(1, 55386), (Start: 2 @55437 has 4 MA's), (Start: 4 @55458 has 14 MA's), (5, 55497), (6, 55584), (7, 55599),

Gene: Klein_87 Start: 54884, Stop: 55075, Start Num: 4

Candidate Starts for Klein_87:

(1, 54812), (Start: 2 @54863 has 4 MA's), (Start: 4 @54884 has 14 MA's), (5, 54923), (6, 55010), (7, 55025),

Gene: Magnito_45 Start: 34684, Stop: 34505, Start Num: 3

Candidate Starts for Magnito_45:

(Start: 3 @34684 has 8 MA's), (7, 34537),

Gene: NihilNomen_89 Start: 56252, Stop: 56434, Start Num: 4

Candidate Starts for NihilNomen_89:

(1, 56180), (Start: 2 @56231 has 4 MA's), (Start: 4 @56252 has 14 MA's), (5, 56291), (6, 56378), (7, 56393),

Gene: Odette_86 Start: 55273, Stop: 55476, Start Num: 2

Candidate Starts for Odette_86:

(1, 55222), (Start: 2 @55273 has 4 MA's), (Start: 4 @55294 has 14 MA's), (5, 55333), (6, 55420), (7, 55435),

Gene: Oogway_45 Start: 34526, Stop: 34347, Start Num: 3

Candidate Starts for Oogway_45:

(Start: 3 @34526 has 8 MA's), (7, 34379),

Gene: Peterson_51 Start: 38007, Stop: 37828, Start Num: 3

Candidate Starts for Peterson_51:

(Start: 3 @38007 has 8 MA's), (7, 37860),

Gene: Phoebus_90 Start: 57434, Stop: 57616, Start Num: 4

Candidate Starts for Phoebus_90:

(1, 57362), (Start: 2 @57413 has 4 MA's), (Start: 4 @57434 has 14 MA's), (5, 57473), (6, 57560), (7, 57575),

Gene: STLscum_49 Start: 36682, Stop: 36503, Start Num: 3

Candidate Starts for STLscum_49:

(Start: 3 @36682 has 8 MA's), (7, 36535),

Gene: Schatzie_83 Start: 55041, Stop: 55223, Start Num: 4

Candidate Starts for Schatzie_83:

(1, 54969), (Start: 2 @55020 has 4 MA's), (Start: 4 @55041 has 14 MA's), (5, 55080), (6, 55167), (7, 55182),

Gene: SkiPole_51 Start: 36403, Stop: 36224, Start Num: 3

Candidate Starts for SkiPole_51:

(Start: 3 @36403 has 8 MA's), (7, 36256),

Gene: ThreeRngTarjay_85 Start: 56326, Stop: 56508, Start Num: 4

Candidate Starts for ThreeRngTarjay_85:

(1, 56254), (Start: 2 @56305 has 4 MA's), (Start: 4 @56326 has 14 MA's), (5, 56365), (6, 56452), (7, 56467),

Gene: Traft412_48 Start: 36196, Stop: 36017, Start Num: 3

Candidate Starts for Traft412_48:

(Start: 3 @36196 has 8 MA's), (7, 36049),

Gene: Turj99_45 Start: 34954, Stop: 34775, Start Num: 3

Candidate Starts for Turj99_45:

(Start: 3 @34954 has 8 MA's), (7, 34807),

Gene: Wanda_91 Start: 55193, Stop: 55384, Start Num: 4

Candidate Starts for Wanda_91:

(1, 55121), (Start: 2 @55172 has 4 MA's), (Start: 4 @55193 has 14 MA's), (5, 55232), (6, 55319), (7, 55334),

Gene: Yeet_81 Start: 54543, Stop: 54725, Start Num: 4

Candidate Starts for Yeet_81:

(1, 54471), (Start: 2 @54522 has 4 MA's), (Start: 4 @54543 has 14 MA's), (5, 54582), (6, 54669), (7, 54684),

Gene: Zelink_85 Start: 56617, Stop: 56820, Start Num: 2

Candidate Starts for Zelink_85:

(1, 56566), (Start: 2 @56617 has 4 MA's), (Start: 4 @56638 has 14 MA's), (5, 56677), (6, 56764), (7, 56779),