



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 86631 Report

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

Pham number 86631 has 21 members, 1 are drafts.

Phages represented in each track:

- Track 1 : KashFlow_48, Wanda_61, Beem_55, NihilNomen_54, EricMillard_55, Ejimix_55, ThreeRngTarjay_53, Hannaconda_51, Klein_55, Yeet_53, Phoebus_54, Optimus_60, HokkenD_48, Bagrid_54, Bombitas_52, Minerva_61, Hughesyang_53, Halley_55, Duke13_58
- Track 2 : Redno2_52, BAKA_59

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 18 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bagrid_54, Beem_55, Bombitas_52, Duke13_58, Ejimix_55, EricMillard_55, Halley_55, Hannaconda_51, HokkenD_48, Hughesyang_53, KashFlow_48, Klein_55, Minerva_61, NihilNomen_54, Optimus_60, Phoebus_54, ThreeRngTarjay_53, Wanda_61, Yeet_53,

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

- BAKA_59, Redno2_52,

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

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Summary by start number:

Start 4:

- Found in 21 of 21 (100.0%) of genes in pham
- Manual Annotations of this start: 18 of 20
- Called 90.5% of time when present
- Phage (with cluster) where this start called: Bagrid_54 (J), Beem_55 (J), Bombitas_52 (J), Duke13_58 (J), Ejimix_55 (J), EricMillard_55 (J), Halley_55 (J), Hannaconda_51 (J), HokkenD_48 (J), Hughesyang_53 (J), KashFlow_48 (J), Klein_55 (J), Minerva_61 (J), NihilNomen_54 (J), Optimus_60 (J), Phoebus_54 (J), ThreeRngTarjay_53 (J), Wanda_61 (J), Yeet_53 (J),

Start 5:

- Found in 21 of 21 (100.0%) of genes in pham
- Manual Annotations of this start: 2 of 20
- Called 9.5% of time when present
- Phage (with cluster) where this start called: BAKA_59 (J), Redno2_52 (J),

Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 4 was manually annotated 18 times for cluster J.
- Start number 5 was manually annotated 2 times for cluster J.

Gene Information:

Gene: BAKA_59 Start: 45396, Stop: 45055, Start Num: 5

Candidate Starts for BAKA_59:

(1, 45543), (2, 45465), (3, 45456), (Start: 4 @45405 has 18 MA's), (Start: 5 @45396 has 2 MA's), (6, 45321), (7, 45279), (8, 45261), (9, 45192), (10, 45147), (11, 45132), (12, 45066),

Gene: Bagrid_54 Start: 44738, Stop: 44388, Start Num: 4

Candidate Starts for Bagrid_54:

(1, 44876), (2, 44798), (3, 44789), (Start: 4 @44738 has 18 MA's), (Start: 5 @44729 has 2 MA's), (6, 44654), (7, 44612), (8, 44594), (9, 44525), (10, 44480), (11, 44465), (12, 44399),

Gene: Beem_55 Start: 45304, Stop: 44954, Start Num: 4

Candidate Starts for Beem_55:

(1, 45442), (2, 45364), (3, 45355), (Start: 4 @45304 has 18 MA's), (Start: 5 @45295 has 2 MA's), (6, 45220), (7, 45178), (8, 45160), (9, 45091), (10, 45046), (11, 45031), (12, 44965),

Gene: Bombitas_52 Start: 44899, Stop: 44549, Start Num: 4

Candidate Starts for Bombitas_52:

(1, 45037), (2, 44959), (3, 44950), (Start: 4 @44899 has 18 MA's), (Start: 5 @44890 has 2 MA's), (6, 44815), (7, 44773), (8, 44755), (9, 44686), (10, 44641), (11, 44626), (12, 44560),

Gene: Duke13_58 Start: 45171, Stop: 44821, Start Num: 4

Candidate Starts for Duke13_58:

(1, 45309), (2, 45231), (3, 45222), (Start: 4 @45171 has 18 MA's), (Start: 5 @45162 has 2 MA's), (6, 45087), (7, 45045), (8, 45027), (9, 44958), (10, 44913), (11, 44898), (12, 44832),

Gene: Ejimix_55 Start: 46089, Stop: 45739, Start Num: 4

Candidate Starts for Ejimix_55:

(1, 46227), (2, 46149), (3, 46140), (Start: 4 @46089 has 18 MA's), (Start: 5 @46080 has 2 MA's), (6, 46005), (7, 45963), (8, 45945), (9, 45876), (10, 45831), (11, 45816), (12, 45750),

Gene: EricMillard_55 Start: 45590, Stop: 45240, Start Num: 4

Candidate Starts for EricMillard_55:

(1, 45728), (2, 45650), (3, 45641), (Start: 4 @45590 has 18 MA's), (Start: 5 @45581 has 2 MA's), (6, 45506), (7, 45464), (8, 45446), (9, 45377), (10, 45332), (11, 45317), (12, 45251),

Gene: Halley_55 Start: 45303, Stop: 44953, Start Num: 4

Candidate Starts for Halley_55:

(1, 45441), (2, 45363), (3, 45354), (Start: 4 @45303 has 18 MA's), (Start: 5 @45294 has 2 MA's), (6, 45219), (7, 45177), (8, 45159), (9, 45090), (10, 45045), (11, 45030), (12, 44964),

Gene: Hannaconda_51 Start: 39792, Stop: 39442, Start Num: 4

Candidate Starts for Hannaconda_51:

(1, 39930), (2, 39852), (3, 39843), (Start: 4 @39792 has 18 MA's), (Start: 5 @39783 has 2 MA's), (6, 39708), (7, 39666), (8, 39648), (9, 39579), (10, 39534), (11, 39519), (12, 39453),

Gene: HokkenD_48 Start: 43572, Stop: 43222, Start Num: 4

Candidate Starts for HokkenD_48:

(1, 43710), (2, 43632), (3, 43623), (Start: 4 @43572 has 18 MA's), (Start: 5 @43563 has 2 MA's), (6, 43488), (7, 43446), (8, 43428), (9, 43359), (10, 43314), (11, 43299), (12, 43233),

Gene: Hughesyang_53 Start: 45232, Stop: 44882, Start Num: 4

Candidate Starts for Hughesyang_53:

(1, 45370), (2, 45292), (3, 45283), (Start: 4 @45232 has 18 MA's), (Start: 5 @45223 has 2 MA's), (6, 45148), (7, 45106), (8, 45088), (9, 45019), (10, 44974), (11, 44959), (12, 44893),

Gene: KashFlow_48 Start: 39413, Stop: 39063, Start Num: 4

Candidate Starts for KashFlow_48:

(1, 39551), (2, 39473), (3, 39464), (Start: 4 @39413 has 18 MA's), (Start: 5 @39404 has 2 MA's), (6, 39329), (7, 39287), (8, 39269), (9, 39200), (10, 39155), (11, 39140), (12, 39074),

Gene: Klein_55 Start: 44870, Stop: 44520, Start Num: 4

Candidate Starts for Klein_55:

(1, 45008), (2, 44930), (3, 44921), (Start: 4 @44870 has 18 MA's), (Start: 5 @44861 has 2 MA's), (6, 44786), (7, 44744), (8, 44726), (9, 44657), (10, 44612), (11, 44597), (12, 44531),

Gene: Minerva_61 Start: 46720, Stop: 46370, Start Num: 4

Candidate Starts for Minerva_61:

(1, 46858), (2, 46780), (3, 46771), (Start: 4 @46720 has 18 MA's), (Start: 5 @46711 has 2 MA's), (6, 46636), (7, 46594), (8, 46576), (9, 46507), (10, 46462), (11, 46447), (12, 46381),

Gene: NihilNomen_54 Start: 45390, Stop: 45040, Start Num: 4

Candidate Starts for NihilNomen_54:

(1, 45528), (2, 45450), (3, 45441), (Start: 4 @45390 has 18 MA's), (Start: 5 @45381 has 2 MA's), (6, 45306), (7, 45264), (8, 45246), (9, 45177), (10, 45132), (11, 45117), (12, 45051),

Gene: Optimus_60 Start: 46305, Stop: 45955, Start Num: 4

Candidate Starts for Optimus_60:

(1, 46443), (2, 46365), (3, 46356), (Start: 4 @46305 has 18 MA's), (Start: 5 @46296 has 2 MA's), (6, 46221), (7, 46179), (8, 46161), (9, 46092), (10, 46047), (11, 46032), (12, 45966),

Gene: Phoebus_54 Start: 45591, Stop: 45241, Start Num: 4

Candidate Starts for Phoebus_54:

(1, 45729), (2, 45651), (3, 45642), (Start: 4 @45591 has 18 MA's), (Start: 5 @45582 has 2 MA's), (6, 45507), (7, 45465), (8, 45447), (9, 45378), (10, 45333), (11, 45318), (12, 45252),

Gene: Redno2_52 Start: 42177, Stop: 41836, Start Num: 5

Candidate Starts for Redno2_52:

(1, 42324), (2, 42246), (3, 42237), (Start: 4 @42186 has 18 MA's), (Start: 5 @42177 has 2 MA's), (6, 42102), (7, 42060), (8, 42042), (9, 41973), (10, 41928), (11, 41913), (12, 41847),

Gene: ThreeRngTarjay_53 Start: 45467, Stop: 45117, Start Num: 4

Candidate Starts for ThreeRngTarjay_53:

(1, 45605), (2, 45527), (3, 45518), (Start: 4 @45467 has 18 MA's), (Start: 5 @45458 has 2 MA's), (6, 45383), (7, 45341), (8, 45323), (9, 45254), (10, 45209), (11, 45194), (12, 45128),

Gene: Wanda_61 Start: 45179, Stop: 44829, Start Num: 4

Candidate Starts for Wanda_61:

(1, 45317), (2, 45239), (3, 45230), (Start: 4 @45179 has 18 MA's), (Start: 5 @45170 has 2 MA's), (6, 45095), (7, 45053), (8, 45035), (9, 44966), (10, 44921), (11, 44906), (12, 44840),

Gene: Yeet_53 Start: 44599, Stop: 44249, Start Num: 4

Candidate Starts for Yeet_53:

(1, 44737), (2, 44659), (3, 44650), (Start: 4 @44599 has 18 MA's), (Start: 5 @44590 has 2 MA's), (6, 44515), (7, 44473), (8, 44455), (9, 44386), (10, 44341), (11, 44326), (12, 44260),