



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 303620 Report

This analysis was run 06/08/26 on database version 649.

Pham number 303620 has 25 members, 0 are drafts.

Phages represented in each track:

- Track 1 : GalacticEye\_79, Damp\_79, Shelley\_79, Berries\_79, Hello\_78, Bianmat\_79, Harambe\_78, Guillaume\_78, Jams\_79, Anamika\_78, Kaseim\_79, Hail2Pitt\_77, Woes\_78, Neoevie\_78, Jormungandr\_78, Lidong\_79, Minos\_80, Nimi13\_78
- Track 2 : Teal\_78, MrWormie\_79, Luker\_80, Newt\_80, Charianelly\_79, Sticker17\_79
- Track 3 : Lahirium\_79

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

The start number called the most often in the published annotations is 1, it was called in 25 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anamika\_78, Berries\_79, Bianmat\_79, Charianelly\_79, Damp\_79, GalacticEye\_79, Guillaume\_78, Hail2Pitt\_77, Harambe\_78, Hello\_78, Jams\_79, Jormungandr\_78, Kaseim\_79, Lahirium\_79, Lidong\_79, Luker\_80, Minos\_80, MrWormie\_79, Neoevie\_78, Newt\_80, Nimi13\_78, Shelley\_79, Sticker17\_79, Teal\_78, Woes\_78,

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

- 

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

- 

### **Summary by start number:**

Start 1:

- Found in 25 of 25 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 25 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anamika\_78 (CS3), Berries\_79 (CS3), Bianmat\_79 (CS3), Charianelly\_79 (CS3), Damp\_79 (CS3), GalacticEye\_79 (CS3), Guillaume\_78 (CS3), Hail2Pitt\_77 (CS3), Harambe\_78 (CS3), Hello\_78 (CS3), Jams\_79 (CS3), Jormungandr\_78 (CS3), Kaseim\_79 (CS3), Lahirium\_79 (CS3),

Lidong\_79 (CS3), Luker\_80 (CS3), Minos\_80 (CS3), MrWormie\_79 (CS3), Neoevie\_78 (CS3), Newt\_80 (CS3), Nimi13\_78 (CS3), Shelley\_79 (CS3), Sticker17\_79 (CS3), Teal\_78 (CS3), Woes\_78 (CS3),

### **Summary by clusters:**

There is one cluster represented in this pham: CS3

Info for manual annotations of cluster CS3:

•Start number 1 was manually annotated 25 times for cluster CS3.

### **Gene Information:**

Gene: Anamika\_78 Start: 62611, Stop: 62363, Start Num: 1

Candidate Starts for Anamika\_78:

(Start: 1 @62611 has 25 MA's), (2, 62548), (3, 62542), (4, 62509), (5, 62503), (6, 62476), (8, 62428),

Gene: Berries\_79 Start: 62583, Stop: 62335, Start Num: 1

Candidate Starts for Berries\_79:

(Start: 1 @62583 has 25 MA's), (2, 62520), (3, 62514), (4, 62481), (5, 62475), (6, 62448), (8, 62400),

Gene: Bianmat\_79 Start: 62623, Stop: 62375, Start Num: 1

Candidate Starts for Bianmat\_79:

(Start: 1 @62623 has 25 MA's), (2, 62560), (3, 62554), (4, 62521), (5, 62515), (6, 62488), (8, 62440),

Gene: Charianelly\_79 Start: 62333, Stop: 62085, Start Num: 1

Candidate Starts for Charianelly\_79:

(Start: 1 @62333 has 25 MA's), (3, 62264), (4, 62231), (5, 62225), (6, 62198), (8, 62150),

Gene: Damp\_79 Start: 61497, Stop: 61249, Start Num: 1

Candidate Starts for Damp\_79:

(Start: 1 @61497 has 25 MA's), (2, 61434), (3, 61428), (4, 61395), (5, 61389), (6, 61362), (8, 61314),

Gene: GalacticEye\_79 Start: 62294, Stop: 62046, Start Num: 1

Candidate Starts for GalacticEye\_79:

(Start: 1 @62294 has 25 MA's), (2, 62231), (3, 62225), (4, 62192), (5, 62186), (6, 62159), (8, 62111),

Gene: Guillaume\_78 Start: 62344, Stop: 62096, Start Num: 1

Candidate Starts for Guillaume\_78:

(Start: 1 @62344 has 25 MA's), (2, 62281), (3, 62275), (4, 62242), (5, 62236), (6, 62209), (8, 62161),

Gene: Hail2Pitt\_77 Start: 62820, Stop: 62572, Start Num: 1

Candidate Starts for Hail2Pitt\_77:

(Start: 1 @62820 has 25 MA's), (2, 62757), (3, 62751), (4, 62718), (5, 62712), (6, 62685), (8, 62637),

Gene: Harambe\_78 Start: 62611, Stop: 62363, Start Num: 1

Candidate Starts for Harambe\_78:

(Start: 1 @62611 has 25 MA's), (2, 62548), (3, 62542), (4, 62509), (5, 62503), (6, 62476), (8, 62428),

Gene: Hello\_78 Start: 62573, Stop: 62325, Start Num: 1

Candidate Starts for Hello\_78:

(Start: 1 @62573 has 25 MA's), (2, 62510), (3, 62504), (4, 62471), (5, 62465), (6, 62438), (8, 62390),

Gene: Jams\_79 Start: 61783, Stop: 61535, Start Num: 1

Candidate Starts for Jams\_79:

(Start: 1 @61783 has 25 MA's), (2, 61720), (3, 61714), (4, 61681), (5, 61675), (6, 61648), (8, 61600),

Gene: Jormungandr\_78 Start: 62326, Stop: 62078, Start Num: 1

Candidate Starts for Jormungandr\_78:

(Start: 1 @62326 has 25 MA's), (2, 62263), (3, 62257), (4, 62224), (5, 62218), (6, 62191), (8, 62143),

Gene: Kaseim\_79 Start: 61768, Stop: 61520, Start Num: 1

Candidate Starts for Kaseim\_79:

(Start: 1 @61768 has 25 MA's), (2, 61705), (3, 61699), (4, 61666), (5, 61660), (6, 61633), (8, 61585),

Gene: Lahirium\_79 Start: 63362, Stop: 63147, Start Num: 1

Candidate Starts for Lahirium\_79:

(Start: 1 @63362 has 25 MA's), (2, 63299), (3, 63293), (4, 63260), (5, 63254), (6, 63227), (7, 63200), (9, 63173),

Gene: Lidong\_79 Start: 62583, Stop: 62335, Start Num: 1

Candidate Starts for Lidong\_79:

(Start: 1 @62583 has 25 MA's), (2, 62520), (3, 62514), (4, 62481), (5, 62475), (6, 62448), (8, 62400),

Gene: Luker\_80 Start: 62801, Stop: 62553, Start Num: 1

Candidate Starts for Luker\_80:

(Start: 1 @62801 has 25 MA's), (3, 62732), (4, 62699), (5, 62693), (6, 62666), (8, 62618),

Gene: Minos\_80 Start: 62325, Stop: 62077, Start Num: 1

Candidate Starts for Minos\_80:

(Start: 1 @62325 has 25 MA's), (2, 62262), (3, 62256), (4, 62223), (5, 62217), (6, 62190), (8, 62142),

Gene: MrWormie\_79 Start: 61486, Stop: 61238, Start Num: 1

Candidate Starts for MrWormie\_79:

(Start: 1 @61486 has 25 MA's), (3, 61417), (4, 61384), (5, 61378), (6, 61351), (8, 61303),

Gene: Neoevie\_78 Start: 62587, Stop: 62339, Start Num: 1

Candidate Starts for Neoevie\_78:

(Start: 1 @62587 has 25 MA's), (2, 62524), (3, 62518), (4, 62485), (5, 62479), (6, 62452), (8, 62404),

Gene: Newt\_80 Start: 62815, Stop: 62567, Start Num: 1

Candidate Starts for Newt\_80:

(Start: 1 @62815 has 25 MA's), (3, 62746), (4, 62713), (5, 62707), (6, 62680), (8, 62632),

Gene: Nimi13\_78 Start: 62334, Stop: 62086, Start Num: 1

Candidate Starts for Nimi13\_78:

(Start: 1 @62334 has 25 MA's), (2, 62271), (3, 62265), (4, 62232), (5, 62226), (6, 62199), (8, 62151),

Gene: Shelley\_79 Start: 61810, Stop: 61562, Start Num: 1

Candidate Starts for Shelley\_79:

(Start: 1 @61810 has 25 MA's), (2, 61747), (3, 61741), (4, 61708), (5, 61702), (6, 61675), (8, 61627),

Gene: Sticker17\_79 Start: 62298, Stop: 62050, Start Num: 1

Candidate Starts for Sticker17\_79:

(Start: 1 @62298 has 25 MA's), (3, 62229), (4, 62196), (5, 62190), (6, 62163), (8, 62115),

Gene: Teal\_78 Start: 62792, Stop: 62544, Start Num: 1

Candidate Starts for Teal\_78:

(Start: 1 @62792 has 25 MA's), (3, 62723), (4, 62690), (5, 62684), (6, 62657), (8, 62609),

Gene: Woes\_78 Start: 62843, Stop: 62595, Start Num: 1

Candidate Starts for Woes\_78:

(Start: 1 @62843 has 25 MA's), (2, 62780), (3, 62774), (4, 62741), (5, 62735), (6, 62708), (8, 62660),