

Pham 294907



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 294907 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294907 has 37 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Hankly\_91
- Track 2 : Cheesy\_92, JEGGS\_90, Heisenberger\_90, Kardesai\_90, Benllo\_87, Mooshroom\_91, Tribby\_93
- Track 3 : GoCrazy\_86, Circum\_91, KeaneyLin\_88
- Track 4 : Correa\_87, Elsa\_89, Arcadia\_89, Nason\_89
- Track 5 : NapoleonB\_92, BenitoAntonio\_89, Dynamite\_91, Xenomorph\_86, Mudcat\_86
- Track 6 : Bowling\_93
- Track 7 : YoshiYama\_90
- Track 8 : GantcherGoblin\_87, Tenney120\_89
- Track 9 : KevinMinion\_86, Argan\_88, Uzumaki\_88
- Track 10 : Stardrop\_94
- Track 11 : Leathea\_85
- Track 12 : Arzan\_78
- Track 13 : GermyBearimy\_87
- Track 14 : Gandionco\_247
- Track 15 : JeNeSaisPas\_240
- Track 16 : JeNeSaisPas\_239, Kureo\_243
- Track 17 : Marianna39\_247
- Track 18 : Kureo\_244

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

The start number called the most often in the published annotations is 11, it was called in 21 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia\_89, BenitoAntonio\_89, Benllo\_87, Bowling\_93, Cheesy\_92, Circum\_91, Correa\_87, Dynamite\_91, Elsa\_89, GoCrazy\_86, Hankly\_91, Heisenberger\_90, JEGGS\_90, Kardesai\_90, KeaneyLin\_88, Mooshroom\_91, Mudcat\_86, NapoleonB\_92, Nason\_89, Tribby\_93, Xenomorph\_86, YoshiYama\_90,

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:

• Argan\_88, Arzan\_78, Gandionco\_247, GantcherGoblin\_87, GermyBearimy\_87, JeNeSaisPas\_239, JeNeSaisPas\_240, KevinMinion\_86, Kureo\_243, Kureo\_244, Leathea\_85, Marianna39\_247, Stardrop\_94, Tenney120\_89, Uzumaki\_88,

### Summary by start number:

Start 7:

- Found in 1 of 37 ( 2.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Leathea\_85 (AU6),

Start 8:

- Found in 2 of 37 ( 5.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Gandionco\_247 (FK),

Start 10:

- Found in 2 of 37 ( 5.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Marianna39\_247 (FK),

Start 11:

- Found in 22 of 37 ( 59.5% ) of genes in pham
- Manual Annotations of this start: 21 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia\_89 (AM), BenitoAntonio\_89 (AM), Benllo\_87 (AM), Bowling\_93 (AM), Cheesy\_92 (AM), Circum\_91 (AM), Correa\_87 (AM), Dynamite\_91 (AM), Elsa\_89 (AM), GoCrazy\_86 (AM), Hankly\_91 (AM), Heisenberger\_90 (AM), JEGGS\_90 (AM), Kardesai\_90 (AM), KeaneyLin\_88 (AM), Mooshroom\_91 (AM), Mudcat\_86 (AM), NapoleonB\_92 (AM), Nason\_89 (AM), Tribby\_93 (AM), Xenomorph\_86 (AM), YoshiYama\_90 (AM),

Start 12:

- Found in 1 of 37 ( 2.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stardrop\_94 (AU6),

Start 13:

- Found in 5 of 37 ( 13.5% ) of genes in pham
- Manual Annotations of this start: 3 of 26
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Argan\_88 (AU6), KevinMinion\_86 (AU6), Kureo\_244 (FK), Uzumaki\_88 (AU6),

Start 14:

- Found in 5 of 37 ( 13.5% ) of genes in pham
- No Manual Annotations of this start.

- Called 40.0% of time when present
- Phage (with cluster) where this start called: Arzan\_78 (FI), GermyBearimy\_87 (FI),

Start 15:

- Found in 4 of 37 ( 10.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 75.0% of time when present
- Phage (with cluster) where this start called: JeNeSaisPas\_239 (FK), JeNeSaisPas\_240 (FK), Kureo\_243 (FK),

Start 16:

- Found in 4 of 37 ( 10.8% ) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 50.0% of time when present
- Phage (with cluster) where this start called: GantcherGoblin\_87 (AU6), Tenney120\_89 (AU6),

### **Summary by clusters:**

There are 4 clusters represented in this pham: FI, FK, AM, AU6,

Info for manual annotations of cluster AM:

- Start number 11 was manually annotated 21 times for cluster AM.

Info for manual annotations of cluster AU6:

- Start number 13 was manually annotated 3 times for cluster AU6.
- Start number 16 was manually annotated 2 times for cluster AU6.

### **Gene Information:**

Gene: Arcadia\_89 Start: 52318, Stop: 52563, Start Num: 11

Candidate Starts for Arcadia\_89:

(Start: 11 @52318 has 21 MA's), (17, 52384), (18, 52402),

Gene: Argan\_88 Start: 50665, Stop: 50889, Start Num: 13

Candidate Starts for Argan\_88:

(Start: 13 @50665 has 3 MA's), (24, 50803), (25, 50809), (32, 50854), (33, 50857),

Gene: Arzan\_78 Start: 49144, Stop: 49362, Start Num: 14

Candidate Starts for Arzan\_78:

(1, 49048), (3, 49087), (6, 49114), (14, 49144), (22, 49246),

Gene: BenitoAntonio\_89 Start: 52042, Stop: 52281, Start Num: 11

Candidate Starts for BenitoAntonio\_89:

(Start: 11 @52042 has 21 MA's), (17, 52108), (18, 52126), (35, 52267),

Gene: Benllo\_87 Start: 52696, Stop: 52941, Start Num: 11

Candidate Starts for Benllo\_87:

(Start: 11 @52696 has 21 MA's), (17, 52762), (18, 52780), (20, 52792), (35, 52921),

Gene: Bowling\_93 Start: 53229, Stop: 53474, Start Num: 11  
Candidate Starts for Bowling\_93:  
(Start: 11 @53229 has 21 MA's), (17, 53295), (20, 53325), (35, 53454),

Gene: Cheesy\_92 Start: 52787, Stop: 53026, Start Num: 11  
Candidate Starts for Cheesy\_92:  
(Start: 11 @52787 has 21 MA's), (17, 52853), (18, 52871), (20, 52883), (35, 53012),

Gene: Circum\_91 Start: 52762, Stop: 53025, Start Num: 11  
Candidate Starts for Circum\_91:  
(Start: 11 @52762 has 21 MA's), (14, 52771), (17, 52828), (18, 52846), (20, 52858), (35, 52987), (36, 52993),

Gene: Correa\_87 Start: 51667, Stop: 51912, Start Num: 11  
Candidate Starts for Correa\_87:  
(Start: 11 @51667 has 21 MA's), (17, 51733), (18, 51751),

Gene: Dynamite\_91 Start: 52247, Stop: 52492, Start Num: 11  
Candidate Starts for Dynamite\_91:  
(Start: 11 @52247 has 21 MA's), (17, 52313), (18, 52331), (35, 52472),

Gene: Elsa\_89 Start: 52318, Stop: 52563, Start Num: 11  
Candidate Starts for Elsa\_89:  
(Start: 11 @52318 has 21 MA's), (17, 52384), (18, 52402),

Gene: Gandionco\_247 Start: 109197, Stop: 109415, Start Num: 8  
Candidate Starts for Gandionco\_247:  
(8, 109197), (10, 109206), (Start: 16 @109230 has 2 MA's),

Gene: GantcherGoblin\_87 Start: 50825, Stop: 51037, Start Num: 16  
Candidate Starts for GantcherGoblin\_87:  
(Start: 16 @50825 has 2 MA's), (17, 50867),

Gene: GermyBearimy\_87 Start: 50764, Stop: 50982, Start Num: 14  
Candidate Starts for GermyBearimy\_87:  
(2, 50716), (5, 50737), (14, 50764), (21, 50857),

Gene: GoCrazy\_86 Start: 50946, Stop: 51209, Start Num: 11  
Candidate Starts for GoCrazy\_86:  
(Start: 11 @50946 has 21 MA's), (14, 50955), (17, 51012), (18, 51030), (20, 51042), (35, 51171), (36, 51177),

Gene: Hankly\_91 Start: 52131, Stop: 52394, Start Num: 11  
Candidate Starts for Hankly\_91:  
(Start: 11 @52131 has 21 MA's), (17, 52197), (18, 52215), (20, 52227), (35, 52356), (36, 52362),

Gene: Heisenberger\_90 Start: 52252, Stop: 52491, Start Num: 11  
Candidate Starts for Heisenberger\_90:  
(Start: 11 @52252 has 21 MA's), (17, 52318), (18, 52336), (20, 52348), (35, 52477),

Gene: JEGGS\_90 Start: 52331, Stop: 52570, Start Num: 11  
Candidate Starts for JEGGS\_90:

(Start: 11 @52331 has 21 MA's), (17, 52397), (18, 52415), (20, 52427), (35, 52556),

Gene: JeNeSaisPas\_240 Start: 109405, Stop: 109605, Start Num: 15

Candidate Starts for JeNeSaisPas\_240:

(15, 109405), (28, 109558), (29, 109564),

Gene: JeNeSaisPas\_239 Start: 109195, Stop: 109395, Start Num: 15

Candidate Starts for JeNeSaisPas\_239:

(15, 109195), (30, 109363), (31, 109366),

Gene: Kardesai\_90 Start: 51735, Stop: 51980, Start Num: 11

Candidate Starts for Kardesai\_90:

(Start: 11 @51735 has 21 MA's), (17, 51801), (18, 51819), (20, 51831), (35, 51960),

Gene: KeaneyLin\_88 Start: 51984, Stop: 52247, Start Num: 11

Candidate Starts for KeaneyLin\_88:

(Start: 11 @51984 has 21 MA's), (14, 51993), (17, 52050), (18, 52068), (20, 52080), (35, 52209), (36, 52215),

Gene: KevinMinion\_86 Start: 51657, Stop: 51881, Start Num: 13

Candidate Starts for KevinMinion\_86:

(Start: 13 @51657 has 3 MA's), (24, 51795), (25, 51801), (32, 51846), (33, 51849),

Gene: Kureo\_243 Start: 107418, Stop: 107618, Start Num: 15

Candidate Starts for Kureo\_243:

(15, 107418), (30, 107586), (31, 107589),

Gene: Kureo\_244 Start: 107619, Stop: 107828, Start Num: 13

Candidate Starts for Kureo\_244:

(Start: 13 @107619 has 3 MA's), (15, 107628), (28, 107781), (29, 107787),

Gene: Leathea\_85 Start: 48722, Stop: 48952, Start Num: 7

Candidate Starts for Leathea\_85:

(7, 48722), (Start: 13 @48737 has 3 MA's), (19, 48821), (23, 48860), (26, 48896), (27, 48908),

Gene: Marianna39\_247 Start: 109809, Stop: 110018, Start Num: 10

Candidate Starts for Marianna39\_247:

(8, 109800), (10, 109809), (Start: 16 @109833 has 2 MA's),

Gene: Mooshroom\_91 Start: 51735, Stop: 51980, Start Num: 11

Candidate Starts for Mooshroom\_91:

(Start: 11 @51735 has 21 MA's), (17, 51801), (18, 51819), (20, 51831), (35, 51960),

Gene: Mudcat\_86 Start: 53486, Stop: 53725, Start Num: 11

Candidate Starts for Mudcat\_86:

(Start: 11 @53486 has 21 MA's), (17, 53552), (18, 53570), (35, 53711),

Gene: NapoleonB\_92 Start: 52247, Stop: 52492, Start Num: 11

Candidate Starts for NapoleonB\_92:

(Start: 11 @52247 has 21 MA's), (17, 52313), (18, 52331), (35, 52472),

Gene: Nason\_89 Start: 52318, Stop: 52563, Start Num: 11

Candidate Starts for Nason\_89:

(Start: 11 @52318 has 21 MA's), (17, 52384), (18, 52402),

Gene: Stardrop\_94 Start: 52087, Stop: 52284, Start Num: 12

Candidate Starts for Stardrop\_94:

(4, 52048), (12, 52087), (34, 52264),

Gene: Tenney120\_89 Start: 51376, Stop: 51588, Start Num: 16

Candidate Starts for Tenney120\_89:

(Start: 16 @51376 has 2 MA's), (17, 51418),

Gene: Tribby\_93 Start: 53122, Stop: 53361, Start Num: 11

Candidate Starts for Tribby\_93:

(Start: 11 @53122 has 21 MA's), (17, 53188), (18, 53206), (20, 53218), (35, 53347),

Gene: Uzumaki\_88 Start: 50799, Stop: 51023, Start Num: 13

Candidate Starts for Uzumaki\_88:

(Start: 13 @50799 has 3 MA's), (24, 50937), (25, 50943), (32, 50988), (33, 50991),

Gene: Xenomorph\_86 Start: 52536, Stop: 52769, Start Num: 11

Candidate Starts for Xenomorph\_86:

(Start: 11 @52536 has 21 MA's), (17, 52602), (18, 52620), (35, 52761),

Gene: YoshiYama\_90 Start: 52893, Stop: 53138, Start Num: 11

Candidate Starts for YoshiYama\_90:

(9, 52890), (Start: 11 @52893 has 21 MA's), (17, 52959), (18, 52977), (20, 52989), (35, 53118),