

Pham 311902



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 311902 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311902 has 28 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Zaheer\_45, Schism\_47
- Track 2 : Guinevere\_45
- Track 3 : AllBusiness\_41
- Track 4 : Dirdigger\_45
- Track 5 : MillySue\_44
- Track 6 : IsHungry\_39
- Track 7 : Donatella\_43
- Track 8 : Saintcarr\_44, Nandita\_45
- Track 9 : Toodles\_44
- Track 10 : Julie\_42
- Track 11 : Kihatsu\_44
- Track 12 : Yonex\_45, BigSherm\_44, Ryan\_45
- Track 13 : ToastyOats\_46
- Track 14 : Popper\_43
- Track 15 : Gusanita\_42
- Track 16 : Morrey\_50, Hereford\_34, Aoka\_34, EvenBluerMoon\_33
- Track 17 : PrairieDogTown\_34
- Track 18 : JanetJ\_33
- Track 19 : CocoCinnamon\_38
- Track 20 : Maja\_36
- Track 21 : Ball\_33

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

The start number called the most often in the published annotations is 10, it was called in 16 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AllBusiness\_41, Ball\_33, BigSherm\_44, Dirdigger\_45, Donatella\_43, Guinevere\_45, Gusanita\_42, IsHungry\_39, Julie\_42, Kihatsu\_44, MillySue\_44, Nandita\_45, Popper\_43, Ryan\_45, Saintcarr\_44, Schism\_47, ToastyOats\_46, Toodles\_44, Yonex\_45, Zaheer\_45,

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:

- Aoka\_34, CocoCinnamon\_38, EvenBluerMoon\_33, Hereford\_34, JanetJ\_33, Maja\_36, Morrey\_50, PrairieDogTown\_34,

### Summary by start number:

Start 7:

- Found in 5 of 28 ( 17.9% ) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 20.0% of time when present
- Phage (with cluster) where this start called: PrairieDogTown\_34 (FO),

Start 10:

- Found in 20 of 28 ( 71.4% ) of genes in pham
- Manual Annotations of this start: 16 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AllBusiness\_41 (FF), Ball\_33 (singleton), BigSherm\_44 (FF), Dirdigger\_45 (FF), Donatella\_43 (FF), Guinevere\_45 (FF), Gusanita\_42 (FF), IsHungry\_39 (FF), Julie\_42 (FF), Kihatsu\_44 (FF), MillySue\_44 (FF), Nandita\_45 (FF), Popper\_43 (FF), Ryan\_45 (FF), Saintcarr\_44 (FF), Schism\_47 (FF), ToastyOats\_46 (FF), Toodles\_44 (FF), Yonex\_45 (FF), Zaheer\_45 (FF),

Start 11:

- Found in 6 of 28 ( 21.4% ) of genes in pham
- Manual Annotations of this start: 4 of 23
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Aoka\_34 (FO), EvenBluerMoon\_33 (FO), Hereford\_34 (FO), JanetJ\_33 (FO), Morrey\_50 (FO),

Start 12:

- Found in 1 of 28 ( 3.6% ) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CocoCinnamon\_38 (FO),

Start 13:

- Found in 2 of 28 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Maja\_36 (FO),

### Summary by clusters:

There are 3 clusters represented in this pham: singleton, FF, FO,

Info for manual annotations of cluster FF:

- Start number 10 was manually annotated 16 times for cluster FF.

Info for manual annotations of cluster FO:

- Start number 7 was manually annotated 1 time for cluster FO.
- Start number 11 was manually annotated 4 times for cluster FO.

- Start number 12 was manually annotated 1 time for cluster FO.
- Start number 13 was manually annotated 1 time for cluster FO.

### **Gene Information:**

Gene: AllBusiness\_41 Start: 31586, Stop: 32197, Start Num: 10

Candidate Starts for AllBusiness\_41:

(3, 31499), (Start: 10 @31586 has 16 MA's), (22, 31919),

Gene: Aoka\_34 Start: 26615, Stop: 27118, Start Num: 11

Candidate Starts for Aoka\_34:

(Start: 7 @26579 has 1 MA's), (Start: 11 @26615 has 4 MA's),

Gene: Ball\_33 Start: 25781, Stop: 26335, Start Num: 10

Candidate Starts for Ball\_33:

(Start: 10 @25781 has 16 MA's), (16, 25934), (20, 26090), (23, 26177),

Gene: BigSherm\_44 Start: 30358, Stop: 30864, Start Num: 10

Candidate Starts for BigSherm\_44:

(6, 30325), (Start: 10 @30358 has 16 MA's), (16, 30508),

Gene: CocoCinnamon\_38 Start: 26860, Stop: 27327, Start Num: 12

Candidate Starts for CocoCinnamon\_38:

(Start: 12 @26860 has 1 MA's), (17, 27022), (26, 27262), (27, 27313),

Gene: Dirtdigger\_45 Start: 31238, Stop: 31855, Start Num: 10

Candidate Starts for Dirtdigger\_45:

(Start: 10 @31238 has 16 MA's), (16, 31388), (22, 31571), (28, 31736),

Gene: Donatella\_43 Start: 30831, Stop: 31337, Start Num: 10

Candidate Starts for Donatella\_43:

(6, 30798), (Start: 10 @30831 has 16 MA's), (Start: 13 @30858 has 1 MA's), (16, 30981),

Gene: EvenBluerMoon\_33 Start: 26853, Stop: 27356, Start Num: 11

Candidate Starts for EvenBluerMoon\_33:

(Start: 7 @26817 has 1 MA's), (Start: 11 @26853 has 4 MA's),

Gene: Guinevere\_45 Start: 30524, Stop: 31096, Start Num: 10

Candidate Starts for Guinevere\_45:

(Start: 10 @30524 has 16 MA's), (17, 30707), (19, 30812), (21, 30860), (30, 31082),

Gene: Gusanita\_42 Start: 30992, Stop: 31609, Start Num: 10

Candidate Starts for Gusanita\_42:

(5, 30956), (8, 30980), (Start: 10 @30992 has 16 MA's), (16, 31142), (22, 31325),

Gene: Hereford\_34 Start: 26687, Stop: 27190, Start Num: 11

Candidate Starts for Hereford\_34:

(Start: 7 @26651 has 1 MA's), (Start: 11 @26687 has 4 MA's),

Gene: IsHungry\_39 Start: 29178, Stop: 29774, Start Num: 10

Candidate Starts for IsHungry\_39:

(Start: 10 @29178 has 16 MA's), (16, 29328), (22, 29511),

Gene: JanetJ\_33 Start: 27228, Stop: 27869, Start Num: 11

Candidate Starts for JanetJ\_33:

(Start: 11 @27228 has 4 MA's), (17, 27405), (18, 27423), (24, 27663), (25, 27672), (29, 27759),

Gene: Julie\_42 Start: 30946, Stop: 31563, Start Num: 10

Candidate Starts for Julie\_42:

(Start: 10 @30946 has 16 MA's), (22, 31279),

Gene: Kihatsu\_44 Start: 31494, Stop: 32066, Start Num: 10

Candidate Starts for Kihatsu\_44:

(Start: 10 @31494 has 16 MA's), (17, 31677), (19, 31782), (21, 31830),

Gene: Maja\_36 Start: 27371, Stop: 27832, Start Num: 13

Candidate Starts for Maja\_36:

(1, 27146), (4, 27293), (9, 27341), (Start: 13 @27371 has 1 MA's), (15, 27485), (16, 27494), (17, 27527), (26, 27767),

Gene: MillySue\_44 Start: 30776, Stop: 31390, Start Num: 10

Candidate Starts for MillySue\_44:

(Start: 10 @30776 has 16 MA's), (14, 30839), (22, 31106),

Gene: Morrey\_50 Start: 26855, Stop: 27358, Start Num: 11

Candidate Starts for Morrey\_50:

(Start: 7 @26819 has 1 MA's), (Start: 11 @26855 has 4 MA's),

Gene: Nandita\_45 Start: 30585, Stop: 31091, Start Num: 10

Candidate Starts for Nandita\_45:

(2, 30459), (Start: 10 @30585 has 16 MA's),

Gene: Popper\_43 Start: 30514, Stop: 31131, Start Num: 10

Candidate Starts for Popper\_43:

(Start: 10 @30514 has 16 MA's), (16, 30664), (22, 30847),

Gene: PrairieDogTown\_34 Start: 26819, Stop: 27358, Start Num: 7

Candidate Starts for PrairieDogTown\_34:

(Start: 7 @26819 has 1 MA's), (Start: 11 @26855 has 4 MA's),

Gene: Ryan\_45 Start: 31133, Stop: 31639, Start Num: 10

Candidate Starts for Ryan\_45:

(6, 31100), (Start: 10 @31133 has 16 MA's), (16, 31283),

Gene: Saintcarr\_44 Start: 30905, Stop: 31411, Start Num: 10

Candidate Starts for Saintcarr\_44:

(2, 30779), (Start: 10 @30905 has 16 MA's),

Gene: Schism\_47 Start: 31313, Stop: 31885, Start Num: 10

Candidate Starts for Schism\_47:

(Start: 10 @31313 has 16 MA's), (17, 31496), (19, 31601), (21, 31649), (30, 31871),

Gene: ToastyOats\_46 Start: 30908, Stop: 31414, Start Num: 10

Candidate Starts for ToastyOats\_46:

(6, 30875), (Start: 10 @30908 has 16 MA's),

Gene: Toodles\_44 Start: 31525, Stop: 32037, Start Num: 10

Candidate Starts for Toodles\_44:

(2, 31399), (Start: 10 @31525 has 16 MA's), (16, 31675),

Gene: Yonex\_45 Start: 31133, Stop: 31639, Start Num: 10

Candidate Starts for Yonex\_45:

(6, 31100), (Start: 10 @31133 has 16 MA's), (16, 31283),

Gene: Zaheer\_45 Start: 31748, Stop: 32320, Start Num: 10

Candidate Starts for Zaheer\_45:

(Start: 10 @31748 has 16 MA's), (17, 31931), (19, 32036), (21, 32084), (30, 32306),