

Pham 293091



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 293091 Report

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

Pham number 293091 has 25 members, 5 are drafts.

Phages represented in each track:

- Track 1 : ScienceWizSam\_44, Gordon\_41
- Track 2 : Tatanka\_41, Synepsis\_41
- Track 3 : Acai\_44
- Track 4 : Trustiboi\_43
- Track 5 : Hemma\_40
- Track 6 : Shepard\_47, LilHuddy\_44
- Track 7 : Tipton\_45, Chlochlo\_45, Tokki\_46
- Track 8 : Bouchard\_43
- Track 9 : Giantsbane\_45
- Track 10 : Phaby\_44
- Track 11 : Ingrid\_45, Loretta\_45
- Track 12 : Anandi\_46
- Track 13 : Caterpillar\_40, MediumFry\_41
- Track 14 : Makai\_43
- Track 15 : Truckee\_41
- Track 16 : Zippen\_45
- Track 17 : Inked\_47
- Track 18 : Sprinkle\_39

### ***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 16 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acai\_44, Anandi\_46, Bouchard\_43, Chlochlo\_45, Giantsbane\_45, Gordon\_41, Hemma\_40, Inked\_47, LilHuddy\_44, Makai\_43, Phaby\_44, ScienceWizSam\_44, Shepard\_47, Sprinkle\_39, Synepsis\_41, Tatanka\_41, Tipton\_45, Tokki\_46, Truckee\_41, Trustiboi\_43, Zippen\_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:

- Caterpillar\_40, Ingrid\_45, Loretta\_45, MediumFry\_41,

### Summary by start number:

#### Start 1:

- Found in 21 of 25 ( 84.0% ) of genes in pham
- Manual Annotations of this start: 16 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acai\_44 (AU1), Anandi\_46 (AU4), Bouchard\_43 (AU2), Chlocho\_45 (AU2), Giantsbane\_45 (AU2), Gordon\_41 (AU1), Hemma\_40 (AU1), Inked\_47 (AU7), LilHuddy\_44 (AU2), Makai\_43 (AU5), Phaby\_44 (AU2), ScienceWizSam\_44 (AU1), Shepard\_47 (AU2), Sprinkle\_39 (AW), Synopsis\_41 (AU1), Tatanka\_41 (AU1), Tipton\_45 (AU2), Tokki\_46 (AU2), Truckee\_41 (AU5), Trustiboi\_43 (AU1), Zippen\_45 (AU7),

#### Start 2:

- Found in 2 of 25 ( 8.0% ) of genes in pham
- Manual Annotations of this start: 2 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ingrid\_45 (AU3), Loretta\_45 (AU3),

#### Start 3:

- Found in 2 of 25 ( 8.0% ) of genes in pham
- Manual Annotations of this start: 2 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Caterpillar\_40 (AU4), MediumFry\_41 (AU4),

### Summary by clusters:

There are 7 clusters represented in this pham: AW, AU1, AU3, AU2, AU5, AU4, AU7,

#### Info for manual annotations of cluster AU1:

- Start number 1 was manually annotated 5 times for cluster AU1.

#### Info for manual annotations of cluster AU2:

- Start number 1 was manually annotated 7 times for cluster AU2.

#### Info for manual annotations of cluster AU3:

- Start number 2 was manually annotated 2 times for cluster AU3.

#### Info for manual annotations of cluster AU4:

- Start number 3 was manually annotated 2 times for cluster AU4.

#### Info for manual annotations of cluster AU5:

- Start number 1 was manually annotated 2 times for cluster AU5.

#### Info for manual annotations of cluster AU7:

- Start number 1 was manually annotated 2 times for cluster AU7.

**Gene Information:**

Gene: Acai\_44 Start: 32769, Stop: 33056, Start Num: 1

Candidate Starts for Acai\_44:

(Start: 1 @32769 has 16 MA's), (5, 32790), (6, 32811), (9, 32841), (11, 32856), (13, 32925), (14, 32934), (22, 33006),

Gene: Anandi\_46 Start: 33410, Stop: 33694, Start Num: 1

Candidate Starts for Anandi\_46:

(Start: 1 @33410 has 16 MA's), (9, 33479), (13, 33563), (14, 33572), (19, 33599),

Gene: Bouchard\_43 Start: 32788, Stop: 33081, Start Num: 1

Candidate Starts for Bouchard\_43:

(Start: 1 @32788 has 16 MA's), (8, 32860), (17, 32977),

Gene: Caterpillar\_40 Start: 31879, Stop: 32157, Start Num: 3

Candidate Starts for Caterpillar\_40:

(Start: 3 @31879 has 2 MA's), (14, 32038), (23, 32113),

Gene: Chlochlo\_45 Start: 32853, Stop: 33146, Start Num: 1

Candidate Starts for Chlochlo\_45:

(Start: 1 @32853 has 16 MA's), (8, 32925),

Gene: Giantsbane\_45 Start: 32039, Stop: 32332, Start Num: 1

Candidate Starts for Giantsbane\_45:

(Start: 1 @32039 has 16 MA's), (8, 32111),

Gene: Gordon\_41 Start: 33512, Stop: 33796, Start Num: 1

Candidate Starts for Gordon\_41:

(Start: 1 @33512 has 16 MA's), (8, 33578), (12, 33602), (13, 33665), (14, 33674), (22, 33746), (24, 33764), (26, 33782), (27, 33791),

Gene: Hemma\_40 Start: 29537, Stop: 29845, Start Num: 1

Candidate Starts for Hemma\_40:

(Start: 1 @29537 has 16 MA's), (8, 29606), (15, 29714), (17, 29735), (22, 29798),

Gene: Ingrid\_45 Start: 32789, Stop: 33076, Start Num: 2

Candidate Starts for Ingrid\_45:

(Start: 2 @32789 has 2 MA's), (8, 32858), (13, 32945), (14, 32954), (22, 33026), (24, 33044),

Gene: Inked\_47 Start: 33934, Stop: 34218, Start Num: 1

Candidate Starts for Inked\_47:

(Start: 1 @33934 has 16 MA's), (8, 34000), (13, 34087), (14, 34096), (24, 34186),

Gene: LilHuddy\_44 Start: 32773, Stop: 33066, Start Num: 1

Candidate Starts for LilHuddy\_44:

(Start: 1 @32773 has 16 MA's),

Gene: Loretta\_45 Start: 32789, Stop: 33076, Start Num: 2

Candidate Starts for Loretta\_45:

(Start: 2 @32789 has 2 MA's), (8, 32858), (13, 32945), (14, 32954), (22, 33026), (24, 33044),

Gene: Makai\_43 Start: 32979, Stop: 33263, Start Num: 1

Candidate Starts for Makai\_43:

(Start: 1 @32979 has 16 MA's), (4, 32991), (7, 33042), (11, 33066), (13, 33135), (14, 33144),

Gene: MediumFry\_41 Start: 32192, Stop: 32470, Start Num: 3

Candidate Starts for MediumFry\_41:

(Start: 3 @32192 has 2 MA's), (14, 32351), (23, 32426),

Gene: Phaby\_44 Start: 32898, Stop: 33191, Start Num: 1

Candidate Starts for Phaby\_44:

(Start: 1 @32898 has 16 MA's), (8, 32970), (10, 32985), (17, 33087),

Gene: ScienceWizSam\_44 Start: 32989, Stop: 33273, Start Num: 1

Candidate Starts for ScienceWizSam\_44:

(Start: 1 @32989 has 16 MA's), (8, 33055), (12, 33079), (13, 33142), (14, 33151), (22, 33223), (24, 33241), (26, 33259), (27, 33268),

Gene: Shepard\_47 Start: 33057, Stop: 33350, Start Num: 1

Candidate Starts for Shepard\_47:

(Start: 1 @33057 has 16 MA's),

Gene: Sprinkle\_39 Start: 29871, Stop: 30203, Start Num: 1

Candidate Starts for Sprinkle\_39:

(Start: 1 @29871 has 16 MA's), (18, 30072), (20, 30075), (21, 30111), (25, 30156), (28, 30174),

Gene: Synopsis\_41 Start: 32655, Stop: 32939, Start Num: 1

Candidate Starts for Synopsis\_41:

(Start: 1 @32655 has 16 MA's), (8, 32721), (14, 32817), (22, 32889),

Gene: Tatanka\_41 Start: 32828, Stop: 33112, Start Num: 1

Candidate Starts for Tatanka\_41:

(Start: 1 @32828 has 16 MA's), (8, 32894), (14, 32990), (22, 33062),

Gene: Tipton\_45 Start: 33191, Stop: 33484, Start Num: 1

Candidate Starts for Tipton\_45:

(Start: 1 @33191 has 16 MA's), (8, 33263),

Gene: Tokki\_46 Start: 32843, Stop: 33136, Start Num: 1

Candidate Starts for Tokki\_46:

(Start: 1 @32843 has 16 MA's), (8, 32915),

Gene: Truckee\_41 Start: 32768, Stop: 33052, Start Num: 1

Candidate Starts for Truckee\_41:

(Start: 1 @32768 has 16 MA's), (13, 32924), (14, 32933),

Gene: Trustiboi\_43 Start: 33207, Stop: 33491, Start Num: 1

Candidate Starts for Trustiboi\_43:

(Start: 1 @33207 has 16 MA's), (8, 33273), (12, 33297), (13, 33360), (14, 33369), (16, 33387), (22, 33441), (24, 33459), (26, 33477), (27, 33486),

Gene: Zippen\_45 Start: 33633, Stop: 33917, Start Num: 1

Candidate Starts for Zippen\_45:

(Start: 1 @33633 has 16 MA's), (8, 33699), (13, 33786), (14, 33795), (24, 33885),