# Pham 298737


1: ScienceWizSam_44 + 1
2: Tatanka_41 + 1
3: Acai_44
4: Trustiboi_43
5: Hemma_40
6: Shepard_47 + 1
7: Tipton_45 + 2
8: Bouchard_43
9: Giantsbane_45
10: Phaby_44
11: Ingrid_45 + 1
12: Anandi_47
13: Caterpillar_40 + 1
14: Makai_43
15: Truckee_41
16: Zippen_45
17: Inked_47
18: Sprinkle_39

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 298737 Report

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

Pham number 298737 has 25 members, 3 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_47
• 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 18 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acai_44, Anandi_47, 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: 18 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acai_44 (AU1), Anandi_47 (AU4), Bouchard_43 (AU2), Chlochlo_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), Synepsis_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 22
• 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 22
• 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 8 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 1 was manually annotated 1 time for 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 18 MA's), (5, 32790), (6, 32811), (9, 32841), (11, 32856), (13, 32925), (14, 32934), (22, 33006),

Gene: Anandi_47 Start: 33410, Stop: 33694, Start Num: 1
Candidate Starts for Anandi_47:
(Start: 1 @33410 has 18 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 18 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 18 MA's), (8, 32925),

Gene: Giantsbane_45 Start: 32039, Stop: 32332, Start Num: 1
Candidate Starts for Giantsbane_45:
(Start: 1 @32039 has 18 MA's), (8, 32111),

Gene: Gordon_41 Start: 33512, Stop: 33796, Start Num: 1
Candidate Starts for Gordon_41:
(Start: 1 @33512 has 18 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 18 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 18 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 18 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 18 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 18 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 18 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 18 MA's),

Gene: Sprinkle_39 Start: 29871, Stop: 30203, Start Num: 1
Candidate Starts for Sprinkle_39:
(Start: 1 @29871 has 18 MA's), (18, 30072), (20, 30075), (21, 30111), (25, 30156), (28, 30174),

Gene: Synepsis_41 Start: 32655, Stop: 32939, Start Num: 1
Candidate Starts for Synepsis_41:
(Start: 1 @32655 has 18 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 18 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 18 MA's), (8, 33263),

Gene: Tokki_46 Start: 32843, Stop: 33136, Start Num: 1
Candidate Starts for Tokki_46:
(Start: 1 @32843 has 18 MA's), (8, 32915),

Gene: Truckee_41 Start: 32768, Stop: 33052, Start Num: 1
Candidate Starts for Truckee_41:
(Start: 1 @32768 has 18 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 18 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 18 MA's), (8, 33699), (13, 33786), (14, 33795), (24, 33885),