# Pham 195725


1: Cassia_51
2: AEgle_49 + 1
3: Yang_52 + 2
4: Adolin_56 + 1
5: Iter_55 + 1
6: Niobe_51 + 2
7: Tallboi_52
8: Jstan_53 + 2
9: Nitro_55
10: Tian_53 + 2
11: Pumpkins_51
12: KeAlii_51
13: MissSwiss_55
14: Reedo_52
15: IttyBittyPiggy_52
16: Adumb2043_50
17: Tweety19_56 + 1

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 195725 Report

This analysis was run 12/09/24 on database version 580.

Pham number 195725 has 29 members, 5 are drafts.

Phages represented in each track:
- Track 1 : Cassia_51
- Track 2 : AEgle_49, Turab_50
- Track 3 : Yang_52, TforTroy_53, JuneStar_54
- Track 4 : Adolin_56, DrManhattan_55
- Track 5 : Iter_55, Ascela_55
- Track 6 : Niobe_51, Asa16_51, London_51
- Track 7 : Tallboi_52
- Track 8 : Jstan_53, Elezi_51, Eraser_51
- Track 9 : Nitro_55
- Track 10 : Tian_53, Pixelle_55, Amyev_54
- Track 11 : Pumpkins_51
- Track 12 : KeAlii_51
- Track 13 : MissSwiss_55
- Track 14 : Reedo_52
- Track 15 : IttyBittyPiggy_52
- Track 16 : Adumb2043_50
- Track 17 : Tweety19_56, Snek_55

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

The start number called the most often in the published annotations is 5, it was called in 23 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- AEgle_49, Adolin_56, Adumb2043_50, Amyev_54, Asa16_51, Ascela_55, Cassia_51, DrManhattan_55, Elezi_51, Eraser_51, Iter_55, IttyBittyPiggy_52, Jstan_53, JuneStar_54, KeAlii_51, London_51, MissSwiss_55, Niobe_51, Pixelle_55, Pumpkins_51, Reedo_52, Snek_55, Tallboi_52, TforTroy_53, Tian_53, Turab_50, Tweety19_56, Yang_52,

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

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

• Nitro_55,

**Summary by start number:**

Start 4:
• Found in 1 of 29 ( 3.4% ) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nitro_55 (AZ1),

Start 5:
• Found in 28 of 29 ( 96.6% ) of genes in pham
• Manual Annotations of this start: 23 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AEgle_49 (AZ1), Adolin_56 (AZ1), Adumb2043_50 (AZ1), Amyev_54 (AZ1), Asa16_51 (AZ1), Ascela_55 (AZ1), Cassia_51 (AZ1), DrManhattan_55 (AZ1), Elezi_51 (AZ1), Eraser_51 (AZ1), Iter_55 (AZ1), IttyBittyPiggy_52 (AZ1), Jstan_53 (AZ1), JuneStar_54 (AZ1), KeAlii_51 (AZ1), London_51 (AZ1), MissSwiss_55 (AZ1), Niobe_51 (AZ1), Pixelle_55 (AZ1), Pumpkins_51 (AZ1), Reedo_52 (AZ1), Snek_55 (AZ3), Tallboi_52 (AZ1), TforTroy_53 (AZ1), Tian_53 (AZ1), Turab_50 (AZ1), Tweety19_56 (AZ3), Yang_52 (AZ1),

**Summary by clusters:**

There are 2 clusters represented in this pham: AZ1, AZ3,

Info for manual annotations of cluster AZ1:
•Start number 4 was manually annotated 1 time for cluster AZ1.
•Start number 5 was manually annotated 21 times for cluster AZ1.

Info for manual annotations of cluster AZ3:
•Start number 5 was manually annotated 2 times for cluster AZ3.

***Gene Information:***

Gene: AEgle_49 Start: 36534, Stop: 36725, Start Num: 5
Candidate Starts for AEgle_49:
(Start: 5 @36534 has 23 MA's), (14, 36711),

Gene: Adolin_56 Start: 36952, Stop: 37143, Start Num: 5
Candidate Starts for Adolin_56:
(2, 36739), (3, 36742), (Start: 5 @36952 has 23 MA's), (8, 37027), (13, 37120), (14, 37129),

Gene: Adumb2043_50 Start: 36555, Stop: 36746, Start Num: 5
Candidate Starts for Adumb2043_50:
(Start: 5 @36555 has 23 MA's), (8, 36630), (14, 36732),

Gene: Amyev_54 Start: 39992, Stop: 40183, Start Num: 5
Candidate Starts for Amyev_54:
(Start: 5 @39992 has 23 MA's), (14, 40169),

Gene: Asa16_51 Start: 38109, Stop: 38300, Start Num: 5
Candidate Starts for Asa16_51:
(Start: 5 @38109 has 23 MA's), (8, 38184), (10, 38223), (14, 38286),

Gene: Ascela_55 Start: 38387, Stop: 38578, Start Num: 5
Candidate Starts for Ascela_55:
(Start: 5 @38387 has 23 MA's), (14, 38564),

Gene: Cassia_51 Start: 37300, Stop: 37491, Start Num: 5
Candidate Starts for Cassia_51:
(Start: 5 @37300 has 23 MA's), (6, 37321), (14, 37477),

Gene: DrManhattan_55 Start: 36520, Stop: 36711, Start Num: 5
Candidate Starts for DrManhattan_55:
(2, 36307), (3, 36310), (Start: 5 @36520 has 23 MA's), (8, 36595), (13, 36688), (14, 36697),

Gene: Elezi_51 Start: 38107, Stop: 38298, Start Num: 5
Candidate Starts for Elezi_51:
(Start: 5 @38107 has 23 MA's), (8, 38182), (14, 38284),

Gene: Eraser_51 Start: 38116, Stop: 38307, Start Num: 5
Candidate Starts for Eraser_51:
(Start: 5 @38116 has 23 MA's), (8, 38191), (14, 38293),

Gene: Iter_55 Start: 38379, Stop: 38570, Start Num: 5
Candidate Starts for Iter_55:
(Start: 5 @38379 has 23 MA's), (14, 38556),

Gene: IttyBittyPiggy_52 Start: 36888, Stop: 37079, Start Num: 5
Candidate Starts for IttyBittyPiggy_52:
(1, 36570), (Start: 5 @36888 has 23 MA's), (14, 37065),

Gene: Jstan_53 Start: 38111, Stop: 38302, Start Num: 5
Candidate Starts for Jstan_53:
(Start: 5 @38111 has 23 MA's), (8, 38186), (14, 38288),

Gene: JuneStar_54 Start: 40230, Stop: 40421, Start Num: 5
Candidate Starts for JuneStar_54:
(Start: 5 @40230 has 23 MA's), (14, 40407),

Gene: KeAlii_51 Start: 37294, Stop: 37488, Start Num: 5
Candidate Starts for KeAlii_51:
(Start: 5 @37294 has 23 MA's), (8, 37369),

Gene: London_51 Start: 38107, Stop: 38298, Start Num: 5
Candidate Starts for London_51:
(Start: 5 @38107 has 23 MA's), (8, 38182), (10, 38221), (14, 38284),

Gene: MissSwiss_55 Start: 36695, Stop: 36886, Start Num: 5
Candidate Starts for MissSwiss_55:
(Start: 5 @36695 has 23 MA's), (8, 36770), (11, 36842), (14, 36872),

Gene: Niobe_51 Start: 38110, Stop: 38301, Start Num: 5
Candidate Starts for Niobe_51:
(Start: 5 @38110 has 23 MA's), (8, 38185), (10, 38224), (14, 38287),

Gene: Nitro_55 Start: 39409, Stop: 39600, Start Num: 4
Candidate Starts for Nitro_55:
(Start: 4 @39409 has 1 MA's), (8, 39484), (10, 39523), (14, 39586),

Gene: Pixelle_55 Start: 40337, Stop: 40528, Start Num: 5
Candidate Starts for Pixelle_55:
(Start: 5 @40337 has 23 MA's), (14, 40514),

Gene: Pumpkins_51 Start: 37973, Stop: 38164, Start Num: 5
Candidate Starts for Pumpkins_51:
(Start: 5 @37973 has 23 MA's), (14, 38150),

Gene: Reedo_52 Start: 35933, Stop: 36109, Start Num: 5
Candidate Starts for Reedo_52:
(Start: 5 @35933 has 23 MA's), (7, 35984),

Gene: Snek_55 Start: 37054, Stop: 37248, Start Num: 5
Candidate Starts for Snek_55:
(Start: 5 @37054 has 23 MA's), (9, 37156), (12, 37213),

Gene: Tallboi_52 Start: 38465, Stop: 38656, Start Num: 5
Candidate Starts for Tallboi_52:
(Start: 5 @38465 has 23 MA's), (8, 38540), (14, 38642),

Gene: TforTroy_53 Start: 37830, Stop: 38021, Start Num: 5
Candidate Starts for TforTroy_53:
(Start: 5 @37830 has 23 MA's), (14, 38007),

Gene: Tian_53 Start: 39992, Stop: 40183, Start Num: 5
Candidate Starts for Tian_53:
(Start: 5 @39992 has 23 MA's), (14, 40169),

Gene: Turab_50 Start: 36578, Stop: 36769, Start Num: 5
Candidate Starts for Turab_50:
(Start: 5 @36578 has 23 MA's), (14, 36755),

Gene: Tweety19_56 Start: 37054, Stop: 37248, Start Num: 5
Candidate Starts for Tweety19_56:
(Start: 5 @37054 has 23 MA's), (9, 37156), (12, 37213),

Gene: Yang_52 Start: 37639, Stop: 37830, Start Num: 5
Candidate Starts for Yang_52:
(Start: 5 @37639 has 23 MA's), (14, 37816),