Pham 296742

1: Cheesy_51 + 7
3
2: Benllo_50 + 7
1
3
3: Hankly_50 + 3
1
3
4: Tokki_51
2
5
8
9
5: Chlochlo_48 + 3
2
6: LilHuddy_48 + 1
2
8
7: Giantsbane_48
2
8: Ingrid_48 + 1
2
4
8
9
10
9: Caterpillar_43 + 1
2
7
10: Anandi_50
2
6
8
11: Makai_46
2
7
8
12: Truckee_44
2
7
8
13: Zippen_48
2
8
9
14: Inked_50
2
9

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 296742 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296742 has 37 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Cheesy_51, Xenomorph_48, Bowling_51, Elsa_51, Correa_49, Arcadia_51, Nason_51, YoshiYama_51
• Track 2 : Benllo_50, JEGGS_50, BenitoAntonio_51, Heisenberger_50, KeaneyLin_50, Stardom_48, Kardesai_52, GoCrazy_50
• Track 3 : Hankly_50, Circum_53, Mudcat_48, Mooshroom_53
• Track 4 : Tokki_51
• Track 5 : Chlochlo_48, Tipton_49, Bouchard_47, Shepard_50
• Track 6 : LilHuddy_48, Phaby_49
• Track 7 : Giantsbane_48
• Track 8 : Ingrid_48, Loretta_48
• Track 9 : Caterpillar_43, MediumFry_44
• Track 10 : Anandi_50
• Track 11 : Makai_46
• Track 12 : Truckee_44
• Track 13 : Zippen_48
• Track 14 : Inked_50

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

The start number called the most often in the published annotations is 2, it was called in 15 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Anandi_50, Bouchard_47, Caterpillar_43, Chlochlo_48, Giantsbane_48, Ingrid_48, Inked_50, LilHuddy_48, Loretta_48, Makai_46, MediumFry_44, Phaby_49, Shepard_50, Tipton_49, Tokki_51, Truckee_44, Zippen_48,

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

Genes that do not have the "Most Annotated" start:
• Arcadia_51, BenitoAntonio_51, Benllo_50, Bowling_51, Cheesy_51, Circum_53, Correa_49, Elsa_51, GoCrazy_50, Hankly_50, Heisenberger_50, JEGGS_50, Kardesai_52, KeaneyLin_50, Mooshroom_53, Mudcat_48, Nason_51, Stardom_48,

Xenomorph_48, YoshiYama_51,

Summary by start number:

Start 1:
• Found in 12 of 37 (32.4%) of genes in pham
• Manual Annotations of this start: 4 of 33
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Circum_53 (AM), Hankly_50 (AM), Mooshroom_53 (AM), Mudcat_48 (AM),

Start 2:
• Found in 17 of 37 (45.9%) of genes in pham
• Manual Annotations of this start: 15 of 33
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anandi_50 (AU4), Bouchard_47 (AU2), Caterpillar_43 (AU4), Chlochlo_48 (AU2), Giantsbane_48 (AU2), Ingrid_48 (AU3), Inked_50 (AU7), LilHuddy_48 (AU2), Loretta_48 (AU3), Makai_46 (AU5), MediumFry_44 (AU4), Phaby_49 (AU2), Shepard_50 (AU2), Tipton_49 (AU2), Tokki_51 (AU2), Truckee_44 (AU5), Zippen_48 (AU7),

Start 3:
• Found in 20 of 37 (54.1%) of genes in pham
• Manual Annotations of this start: 14 of 33
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Arcadia_51 (AM), BenitoAntonio_51 (AM), Benllo_50 (AM), Bowling_51 (AM), Cheesy_51 (AM), Correa_49 (AM), Elsa_51 (AM), GoCrazy_50 (AM), Heisenberger_50 (AM), JEGGS_50 (AM), Kardesai_52 (AM), KeaneyLin_50 (AM), Nason_51 (AM), Stardom_48 (AM), Xenomorph_48 (AM), YoshiYama_51 (AM),

Summary by clusters:

There are 6 clusters represented in this pham: AM, AU3, AU2, AU5, AU4, AU7,

Info for manual annotations of cluster AM:
•Start number 1 was manually annotated 4 times for cluster AM.
•Start number 3 was manually annotated 14 times for cluster AM.

Info for manual annotations of cluster AU2:
•Start number 2 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 2 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:
•Start number 2 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU7:
•Start number 2 was manually annotated 2 times for cluster AU7.

Gene Information:

Gene: Anandi_50 Start: 34943, Stop: 35086, Start Num: 2
Candidate Starts for Anandi_50:
(Start: 2 @34943 has 15 MA's), (6, 34988), (8, 35030),

Gene: Arcadia_51 Start: 33107, Stop: 33238, Start Num: 3
Candidate Starts for Arcadia_51:
(Start: 3 @33107 has 14 MA's),

Gene: BenitoAntonio_51 Start: 32641, Stop: 32775, Start Num: 3
Candidate Starts for BenitoAntonio_51:
(Start: 1 @32626 has 4 MA's), (Start: 3 @32641 has 14 MA's),

Gene: Benllo_50 Start: 33319, Stop: 33453, Start Num: 3
Candidate Starts for Benllo_50:
(Start: 1 @33304 has 4 MA's), (Start: 3 @33319 has 14 MA's),

Gene: Bouchard_47 Start: 34638, Stop: 34778, Start Num: 2
Candidate Starts for Bouchard_47:
(Start: 2 @34638 has 15 MA's),

Gene: Bowling_51 Start: 32852, Stop: 32983, Start Num: 3
Candidate Starts for Bowling_51:
(Start: 3 @32852 has 14 MA's),

Gene: Caterpillar_43 Start: 33489, Stop: 33626, Start Num: 2
Candidate Starts for Caterpillar_43:
(Start: 2 @33489 has 15 MA's), (7, 33558),

Gene: Cheesy_51 Start: 32828, Stop: 32959, Start Num: 3
Candidate Starts for Cheesy_51:
(Start: 3 @32828 has 14 MA's),

Gene: Chlochlo_48 Start: 34382, Stop: 34522, Start Num: 2
Candidate Starts for Chlochlo_48:
(Start: 2 @34382 has 15 MA's),

Gene: Circum_53 Start: 33495, Stop: 33644, Start Num: 1
Candidate Starts for Circum_53:
(Start: 1 @33495 has 4 MA's), (Start: 3 @33510 has 14 MA's),

Gene: Correa_49 Start: 31974, Stop: 32105, Start Num: 3
Candidate Starts for Correa_49:
(Start: 3 @31974 has 14 MA's),

Gene: Elsa_51 Start: 33107, Stop: 33238, Start Num: 3
Candidate Starts for Elsa_51:
(Start: 3 @33107 has 14 MA's),

Gene: Giantsbane_48 Start: 33565, Stop: 33705, Start Num: 2
Candidate Starts for Giantsbane_48:
(Start: 2 @33565 has 15 MA's),

Gene: GoCrazy_50 Start: 32975, Stop: 33109, Start Num: 3
Candidate Starts for GoCrazy_50:
(Start: 1 @32960 has 4 MA's), (Start: 3 @32975 has 14 MA's),

Gene: Hankly_50 Start: 32234, Stop: 32383, Start Num: 1
Candidate Starts for Hankly_50:
(Start: 1 @32234 has 4 MA's), (Start: 3 @32249 has 14 MA's),

Gene: Heisenberger_50 Start: 32530, Stop: 32664, Start Num: 3
Candidate Starts for Heisenberger_50:
(Start: 1 @32515 has 4 MA's), (Start: 3 @32530 has 14 MA's),

Gene: Ingrid_48 Start: 34313, Stop: 34441, Start Num: 2
Candidate Starts for Ingrid_48:
(Start: 2 @34313 has 15 MA's), (4, 34334), (8, 34400), (9, 34415), (10, 34421),

Gene: Inked_50 Start: 35444, Stop: 35572, Start Num: 2
Candidate Starts for Inked_50:
(Start: 2 @35444 has 15 MA's), (9, 35546),

Gene: JEGGS_50 Start: 32585, Stop: 32719, Start Num: 3
Candidate Starts for JEGGS_50:
(Start: 1 @32570 has 4 MA's), (Start: 3 @32585 has 14 MA's),

Gene: Kardesai_52 Start: 33219, Stop: 33353, Start Num: 3
Candidate Starts for Kardesai_52:
(Start: 1 @33204 has 4 MA's), (Start: 3 @33219 has 14 MA's),

Gene: KeaneyLin_50 Start: 32975, Stop: 33109, Start Num: 3
Candidate Starts for KeaneyLin_50:
(Start: 1 @32960 has 4 MA's), (Start: 3 @32975 has 14 MA's),

Gene: LilHuddy_48 Start: 34521, Stop: 34658, Start Num: 2
Candidate Starts for LilHuddy_48:
(Start: 2 @34521 has 15 MA's), (8, 34608),

Gene: Loretta_48 Start: 34313, Stop: 34441, Start Num: 2
Candidate Starts for Loretta_48:
(Start: 2 @34313 has 15 MA's), (4, 34334), (8, 34400), (9, 34415), (10, 34421),

Gene: Makai_46 Start: 34498, Stop: 34635, Start Num: 2
Candidate Starts for Makai_46:
(Start: 2 @34498 has 15 MA's), (7, 34567), (8, 34585),

Gene: MediumFry_44 Start: 33794, Stop: 33931, Start Num: 2
Candidate Starts for MediumFry_44:
(Start: 2 @33794 has 15 MA's), (7, 33863),

Gene: Mooshroom_53 Start: 33204, Stop: 33353, Start Num: 1

Candidate Starts for Mooshroom_53:
(Start: 1 @33204 has 4 MA's), (Start: 3 @33219 has 14 MA's),

Gene: Mudcat_48 Start: 33928, Stop: 34077, Start Num: 1
Candidate Starts for Mudcat_48:
(Start: 1 @33928 has 4 MA's), (Start: 3 @33943 has 14 MA's),

Gene: Nason_51 Start: 33107, Stop: 33238, Start Num: 3
Candidate Starts for Nason_51:
(Start: 3 @33107 has 14 MA's),

Gene: Phaby_49 Start: 35065, Stop: 35202, Start Num: 2
Candidate Starts for Phaby_49:
(Start: 2 @35065 has 15 MA's), (8, 35152),

Gene: Shepard_50 Start: 34596, Stop: 34736, Start Num: 2
Candidate Starts for Shepard_50:
(Start: 2 @34596 has 15 MA's),

Gene: Stardom_48 Start: 31711, Stop: 31845, Start Num: 3
Candidate Starts for Stardom_48:
(Start: 1 @31696 has 4 MA's), (Start: 3 @31711 has 14 MA's),

Gene: Tipton_49 Start: 35041, Stop: 35181, Start Num: 2
Candidate Starts for Tipton_49:
(Start: 2 @35041 has 15 MA's),

Gene: Tokki_51 Start: 34693, Stop: 34830, Start Num: 2
Candidate Starts for Tokki_51:
(Start: 2 @34693 has 15 MA's), (5, 34717), (8, 34780), (9, 34795),

Gene: Truckee_44 Start: 34288, Stop: 34425, Start Num: 2
Candidate Starts for Truckee_44:
(Start: 2 @34288 has 15 MA's), (7, 34357), (8, 34375),

Gene: Xenomorph_48 Start: 32778, Stop: 32909, Start Num: 3
Candidate Starts for Xenomorph_48:
(Start: 3 @32778 has 14 MA's),

Gene: YoshiYama_51 Start: 33102, Stop: 33233, Start Num: 3
Candidate Starts for YoshiYama_51:
(Start: 3 @33102 has 14 MA's),

Gene: Zippen_48 Start: 35143, Stop: 35271, Start Num: 2
Candidate Starts for Zippen_48:
(Start: 2 @35143 has 15 MA's), (8, 35230), (9, 35245),