Pham 294820


1: Refuge_42
2: DarthPhader_40
3: Zimmer_40
4: Catalina_44 + 27
5: CogOmlette_39 + 2
6: Elephantoon_42
7: Vanisoa_41 + 1
8: Onglai_41
9: LoneWolf_43
10: Darrell_44
11: Bellris_39 + 1
12: Keziacharles14_41
13: BogosyJay_41 + 1
14: Toaka_41
15: Yecey3_43
16: Alma_43
17: GenevaB15_66 + 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 294820 Report

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

Pham number 294820 has 50 members, 13 are drafts.

Phages represented in each track:
• Track 1 : Refuge_42
• Track 2 : DarthPhader_40
• Track 3 : Zimmer_40
• Track 4 : Catalina_44, Jiawan_41, RyeScarlet_44, Sachima_40, Qobbit_43, HortumSL17_43, Tubs_43, ExplosioNervosa_43, EmyBug_42, Scherzo_43, EdogawaKiddo_41, Eidsmoe_43, Phaeder_43, Conquerage_43, PackMan_42, Pioneer_43, Aliter_43, Lilleskat_41, Spouty_43, Fayely_43, Myxus_43, Hanray_41, Ayanochan_44, Holex_42, Ugenie5_40, Priya_43, Beemo_43, Phonnegut_43
• Track 5 : CogOmlette_39, Minispark_39, WorldCup_39
• Track 6 : Elephantoon_42
• Track 7 : Vanisoa_41, Arissanae_41
• Track 8 : Onglai_41
• Track 9 : LoneWolf_43
• Track 10 : Darrell_44
• Track 11 : Bellris_39, Rahalelujah_40
• Track 12 : Keziacharles14_41
• Track 13 : BogosyJay_41, Maminiaina_41
• Track 14 : Toaka_41
• Track 15 : Yecey3_43
• Track 16 : Alma_43
• Track 17 : GenevaB15_66, Aziz_65

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

The start number called the most often in the published annotations is 7, it was called in 37 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aliter_43, Alma_43, Arissanae_41, Ayanochan_44, Aziz_65, Beemo_43, Bellris_39, BogosyJay_41, Catalina_44, CogOmlette_39, Conquerage_43, Darrell_44, DarthPhader_40, EdogawaKiddo_41, Eidsmoe_43, Elephantoon_42, EmyBug_42, ExplosioNervosa_43, Fayely_43, GenevaB15_66, Hanray_41, Holex_42, HortumSL17_43, Jiawan_41, Keziacharles14_41, Lilleskat_41, LoneWolf_43, Maminiaina_41, Minispark_39, Myxus_43, PackMan_42, Phaeder_43,

Phonnegut_43, Pioneer_43, Priya_43, Qobbit_43, Rahalelujah_40, Refuge_42, RyeScarlet_44, Sachima_40, Scherzo_43, Spouty_43, Toaka_41, Tubs_43, Ugenie5_40, Vanisoa_41, WorldCup_39, Yecey3_43, Zimmer_40,

Genes that have the "Most Annotated" start but do not call it:
• Onglai_41,

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

Summary by start number:

Start 7:
• Found in 50 of 50 (100.0%) of genes in pham
• Manual Annotations of this start: 37 of 37
• Called 98.0% of time when present
• Phage (with cluster) where this start called: Aliter_43 (A9), Alma_43 (A9), Arissanae_41 (A9), Ayanochan_44 (A9), Aziz_65 (M2), Beemo_43 (A9), Bellris_39 (A9), BogosyJay_41 (A9), Catalina_44 (A9), CogOmlette_39 (A9), Conquerage_43 (A9), Darrell_44 (A9), DarthPhader_40 (A12), EdogawaKiddo_41 (A9), Eidsmoe_43 (A9), Elephantoon_42 (A9), EmyBug_42 (A9), ExplosioNervosa_43 (A9), Fayely_43 (A9), GenevaB15_66 (M2), Hanray_41 (A9), Holex_42 (A9), HortumSL17_43 (A9), Jiawan_41 (A9), Keziacharles14_41 (A9), Lilleskat_41 (A9), LoneWolf_43 (A9), Maminiaina_41 (A9), Minispark_39 (A9), Myxus_43 (A9), PackMan_42 (A9), Phaeder_43 (A9), Phonnegut_43 (A9), Pioneer_43 (A9), Priya_43 (A9), Qobbit_43 (A9), Rahalelujah_40 (A9), Refuge_42 (A12), RyeScarlet_44 (A9), Sachima_40 (A9), Scherzo_43 (A9), Spouty_43 (A9), Toaka_41 (A9), Tubs_43 (A9), Ugenie5_40 (A9), Vanisoa_41 (A9), WorldCup_39 (A9), Yecey3_43 (A9), Zimmer_40 (A12),

Start 9:
• Found in 37 of 50 (74.0%) of genes in pham
• No Manual Annotations of this start.
• Called 2.7% of time when present
• Phage (with cluster) where this start called: Onglai_41 (A9),

Summary by clusters:

There are 3 clusters represented in this pham: A9, M2, A12,

Info for manual annotations of cluster A12:
•Start number 7 was manually annotated 3 times for cluster A12.

Info for manual annotations of cluster A9:
•Start number 7 was manually annotated 32 times for cluster A9.

Info for manual annotations of cluster M2:
•Start number 7 was manually annotated 2 times for cluster M2.

Gene Information:

Gene: Aliter_43 Start: 29348, Stop: 29184, Start Num: 7

Candidate Starts for Aliter_43:
(Start: 7 @29348 has 37 MA's), (9, 29327), (12, 29300), (17, 29225),

Gene: Alma_43 Start: 29432, Stop: 29268, Start Num: 7
Candidate Starts for Alma_43:
(Start: 7 @29432 has 37 MA's), (9, 29411), (17, 29309),

Gene: Arissanae_41 Start: 29701, Stop: 29540, Start Num: 7
Candidate Starts for Arissanae_41:
(Start: 7 @29701 has 37 MA's), (12, 29647), (17, 29572),

Gene: Ayanochan_44 Start: 29475, Stop: 29311, Start Num: 7
Candidate Starts for Ayanochan_44:
(Start: 7 @29475 has 37 MA's), (9, 29454), (12, 29427), (17, 29352),

Gene: Aziz_65 Start: 43279, Stop: 43422, Start Num: 7
Candidate Starts for Aziz_65:
(4, 43219), (6, 43243), (Start: 7 @43279 has 37 MA's), (10, 43309), (11, 43312), (15, 43372), (17, 43405),

Gene: Beemo_43 Start: 29476, Stop: 29312, Start Num: 7
Candidate Starts for Beemo_43:
(Start: 7 @29476 has 37 MA's), (9, 29455), (12, 29428), (17, 29353),

Gene: Bellris_39 Start: 28258, Stop: 28103, Start Num: 7
Candidate Starts for Bellris_39:
(Start: 7 @28258 has 37 MA's), (9, 28237), (12, 28210),

Gene: BogosyJay_41 Start: 29019, Stop: 28855, Start Num: 7
Candidate Starts for BogosyJay_41:
(5, 29064), (Start: 7 @29019 has 37 MA's), (10, 28992), (11, 28989),

Gene: Catalina_44 Start: 29421, Stop: 29257, Start Num: 7
Candidate Starts for Catalina_44:
(Start: 7 @29421 has 37 MA's), (9, 29400), (12, 29373), (17, 29298),

Gene: CogOmlette_39 Start: 28255, Stop: 28100, Start Num: 7
Candidate Starts for CogOmlette_39:
(Start: 7 @28255 has 37 MA's), (9, 28234), (12, 28207), (17, 28132),

Gene: Conquerage_43 Start: 29450, Stop: 29286, Start Num: 7
Candidate Starts for Conquerage_43:
(Start: 7 @29450 has 37 MA's), (9, 29429), (12, 29402), (17, 29327),

Gene: Darrell_44 Start: 29790, Stop: 29626, Start Num: 7
Candidate Starts for Darrell_44:
(Start: 7 @29790 has 37 MA's), (9, 29769), (16, 29685),

Gene: DarthPhader_40 Start: 30166, Stop: 30014, Start Num: 7
Candidate Starts for DarthPhader_40:
(Start: 7 @30166 has 37 MA's), (8, 30148), (14, 30076), (17, 30040),

Gene: EdogawaKiddo_41 Start: 29427, Stop: 29263, Start Num: 7

Candidate Starts for EdogawaKiddo_41:
(Start: 7 @29427 has 37 MA's), (9, 29406), (12, 29379), (17, 29304),

Gene: Eidsmoe_43 Start: 29484, Stop: 29320, Start Num: 7
Candidate Starts for Eidsmoe_43:
(Start: 7 @29484 has 37 MA's), (9, 29463), (12, 29436), (17, 29361),

Gene: Elephantoon_42 Start: 28767, Stop: 28597, Start Num: 7
Candidate Starts for Elephantoon_42:
(Start: 7 @28767 has 37 MA's), (9, 28746), (16, 28662), (17, 28644), (18, 28608),

Gene: EmyBug_42 Start: 29486, Stop: 29322, Start Num: 7
Candidate Starts for EmyBug_42:
(Start: 7 @29486 has 37 MA's), (9, 29465), (12, 29438), (17, 29363),

Gene: ExplosioNervosa_43 Start: 29510, Stop: 29346, Start Num: 7
Candidate Starts for ExplosioNervosa_43:
(Start: 7 @29510 has 37 MA's), (9, 29489), (12, 29462), (17, 29387),

Gene: Fayely_43 Start: 29453, Stop: 29289, Start Num: 7
Candidate Starts for Fayely_43:
(Start: 7 @29453 has 37 MA's), (9, 29432), (12, 29405), (17, 29330),

Gene: GenevaB15_66 Start: 43279, Stop: 43422, Start Num: 7
Candidate Starts for GenevaB15_66:
(4, 43219), (6, 43243), (Start: 7 @43279 has 37 MA's), (10, 43309), (11, 43312), (15, 43372), (17, 43405),

Gene: Hanray_41 Start: 29431, Stop: 29267, Start Num: 7
Candidate Starts for Hanray_41:
(Start: 7 @29431 has 37 MA's), (9, 29410), (12, 29383), (17, 29308),

Gene: Holex_42 Start: 29444, Stop: 29280, Start Num: 7
Candidate Starts for Holex_42:
(Start: 7 @29444 has 37 MA's), (9, 29423), (12, 29396), (17, 29321),

Gene: HortumSL17_43 Start: 29420, Stop: 29256, Start Num: 7
Candidate Starts for HortumSL17_43:
(Start: 7 @29420 has 37 MA's), (9, 29399), (12, 29372), (17, 29297),

Gene: Jiawan_41 Start: 29463, Stop: 29299, Start Num: 7
Candidate Starts for Jiawan_41:
(Start: 7 @29463 has 37 MA's), (9, 29442), (12, 29415), (17, 29340),

Gene: Keziacharles14_41 Start: 29939, Stop: 29781, Start Num: 7
Candidate Starts for Keziacharles14_41:
(Start: 7 @29939 has 37 MA's), (8, 29924), (13, 29870),

Gene: Lilleskat_41 Start: 29380, Stop: 29216, Start Num: 7
Candidate Starts for Lilleskat_41:
(Start: 7 @29380 has 37 MA's), (9, 29359), (12, 29332), (17, 29257),

Gene: LoneWolf_43 Start: 29241, Stop: 29077, Start Num: 7

Candidate Starts for LoneWolf_43:
(Start: 7 @29241 has 37 MA's), (8, 29226), (12, 29193),

Gene: Maminiaina_41 Start: 29001, Stop: 28837, Start Num: 7
Candidate Starts for Maminiaina_41:
(5, 29046), (Start: 7 @29001 has 37 MA's), (10, 28974), (11, 28971),

Gene: Minispark_39 Start: 28252, Stop: 28097, Start Num: 7
Candidate Starts for Minispark_39:
(Start: 7 @28252 has 37 MA's), (9, 28231), (12, 28204), (17, 28129),

Gene: Myxus_43 Start: 29420, Stop: 29256, Start Num: 7
Candidate Starts for Myxus_43:
(Start: 7 @29420 has 37 MA's), (9, 29399), (12, 29372), (17, 29297),

Gene: Onglai_41 Start: 27740, Stop: 27597, Start Num: 9
Candidate Starts for Onglai_41:
(Start: 7 @27761 has 37 MA's), (9, 27740), (12, 27713), (17, 27638),

Gene: PackMan_42 Start: 29420, Stop: 29256, Start Num: 7
Candidate Starts for PackMan_42:
(Start: 7 @29420 has 37 MA's), (9, 29399), (12, 29372), (17, 29297),

Gene: Phaeder_43 Start: 29420, Stop: 29256, Start Num: 7
Candidate Starts for Phaeder_43:
(Start: 7 @29420 has 37 MA's), (9, 29399), (12, 29372), (17, 29297),

Gene: Phonnegut_43 Start: 29475, Stop: 29311, Start Num: 7
Candidate Starts for Phonnegut_43:
(Start: 7 @29475 has 37 MA's), (9, 29454), (12, 29427), (17, 29352),

Gene: Pioneer_43 Start: 29475, Stop: 29311, Start Num: 7
Candidate Starts for Pioneer_43:
(Start: 7 @29475 has 37 MA's), (9, 29454), (12, 29427), (17, 29352),

Gene: Priya_43 Start: 29487, Stop: 29323, Start Num: 7
Candidate Starts for Priya_43:
(Start: 7 @29487 has 37 MA's), (9, 29466), (12, 29439), (17, 29364),

Gene: Qobbit_43 Start: 29449, Stop: 29285, Start Num: 7
Candidate Starts for Qobbit_43:
(Start: 7 @29449 has 37 MA's), (9, 29428), (12, 29401), (17, 29326),

Gene: Rahalelujah_40 Start: 28267, Stop: 28112, Start Num: 7
Candidate Starts for Rahalelujah_40:
(Start: 7 @28267 has 37 MA's), (9, 28246), (12, 28219),

Gene: Refuge_42 Start: 30544, Stop: 30389, Start Num: 7
Candidate Starts for Refuge_42:
(Start: 7 @30544 has 37 MA's), (14, 30451),

Gene: RyeScarlet_44 Start: 29444, Stop: 29280, Start Num: 7
Candidate Starts for RyeScarlet_44:

(Start: 7 @29444 has 37 MA's), (9, 29423), (12, 29396), (17, 29321),

Gene: Sachima_40 Start: 29360, Stop: 29196, Start Num: 7
Candidate Starts for Sachima_40:
(Start: 7 @29360 has 37 MA's), (9, 29339), (12, 29312), (17, 29237),

Gene: Scherzo_43 Start: 29664, Stop: 29500, Start Num: 7
Candidate Starts for Scherzo_43:
(Start: 7 @29664 has 37 MA's), (9, 29643), (12, 29616), (17, 29541),

Gene: Spouty_43 Start: 29486, Stop: 29322, Start Num: 7
Candidate Starts for Spouty_43:
(Start: 7 @29486 has 37 MA's), (9, 29465), (12, 29438), (17, 29363),

Gene: Toaka_41 Start: 28759, Stop: 28613, Start Num: 7
Candidate Starts for Toaka_41:
(1, 28909), (Start: 7 @28759 has 37 MA's), (12, 28711),

Gene: Tubs_43 Start: 29420, Stop: 29256, Start Num: 7
Candidate Starts for Tubs_43:
(Start: 7 @29420 has 37 MA's), (9, 29399), (12, 29372), (17, 29297),

Gene: Ugenie5_40 Start: 29663, Stop: 29499, Start Num: 7
Candidate Starts for Ugenie5_40:
(Start: 7 @29663 has 37 MA's), (9, 29642), (12, 29615), (17, 29540),

Gene: Vanisoa_41 Start: 29706, Stop: 29545, Start Num: 7
Candidate Starts for Vanisoa_41:
(Start: 7 @29706 has 37 MA's), (12, 29652), (17, 29577),

Gene: WorldCup_39 Start: 28261, Stop: 28106, Start Num: 7
Candidate Starts for WorldCup_39:
(Start: 7 @28261 has 37 MA's), (9, 28240), (12, 28213), (17, 28138),

Gene: Yecey3_43 Start: 28664, Stop: 28509, Start Num: 7
Candidate Starts for Yecey3_43:
(2, 28757), (3, 28751), (Start: 7 @28664 has 37 MA's), (13, 28595), (17, 28541),

Gene: Zimmer_40 Start: 30029, Stop: 29877, Start Num: 7
Candidate Starts for Zimmer_40:
(Start: 7 @30029 has 37 MA's),