Pham 348031


1: Applejacks_28
2: Morrissey_29
3: Mahdia_28
4: CinnamonToast_34 + 5
5: Msay19_34 + 1
6: John316_33
7: Beaver_33
8: Sticker17_30
9: Guillaume_30
10: CherryTomatoes_125 + 1
11: Pupper_126
12: Patience_38 + 2
13: DS6A_25

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 348031 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348031 has 22 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Applejacks_28
• Track 2 : Morrissey_29
• Track 3 : Mahdia_28
• Track 4 : CinnamonToast_34, Boneham_33, Jellybones_33, Butterball_33, BirksAndSocks_33, BillyBobJr_34
• Track 5 : Msay19_34, Poland_34
• Track 6 : John316_33
• Track 7 : Beaver_33
• Track 8 : Sticker17_30
• Track 9 : Guillaume_30
• Track 10 : CherryTomatoes_125, SCentae_125
• Track 11 : Pupper_126
• Track 12 : Patience_38, Labelle_37, Madruga_36
• Track 13 : DS6A_25

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

The start number called the most often in the published annotations is 15, it was called in 13 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beaver_33, BillyBobJr_34, BirksAndSocks_33, Boneham_33, Butterball_33, CherryTomatoes_125, CinnamonToast_34, Guillaume_30, Jellybones_33, John316_33, Msay19_34, Poland_34, Pupper_126, SCentae_125, Sticker17_30,

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:
• Applejacks_28, DS6A_25, Labelle_37, Madruga_36, Mahdia_28, Morrissey_29, Patience_38,

Summary by start number:

Start 1:
• Found in 3 of 22 (13.6%) of genes in pham
• Manual Annotations of this start: 2 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Applejacks_28 (CD), Mahdia_28 (CD), Morrissey_29 (CD),

Start 6:
• Found in 5 of 22 (22.7%) of genes in pham
• Manual Annotations of this start: 3 of 19
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Labelle_37 (U), Madruga_36 (U), Patience_38 (U),

Start 15:
• Found in 15 of 22 (68.2%) of genes in pham
• Manual Annotations of this start: 13 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beaver_33 (CS2), BillyBobJr_34 (CS2), BirksAndSocks_33 (CS2), Boneham_33 (CS2), Butterball_33 (CS2), CherryTomatoes_125 (DO), CinnamonToast_34 (CS2), Guillaume_30 (CS3), Jellybones_33 (CS2), John316_33 (CS2), Msay19_34 (CS2), Poland_34 (CS2), Pupper_126 (DO), SCentae_125 (DO), Sticker17_30 (CS3),

Start 20:
• Found in 1 of 22 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DS6A_25 (singleton),

Summary by clusters:

There are 6 clusters represented in this pham: DO, singleton, CD, U, CS3, CS2,

Info for manual annotations of cluster CD:
•Start number 1 was manually annotated 2 times for cluster CD.

Info for manual annotations of cluster CS2:
•Start number 15 was manually annotated 8 times for cluster CS2.

Info for manual annotations of cluster CS3:
•Start number 15 was manually annotated 2 times for cluster CS3.

Info for manual annotations of cluster DO:
•Start number 15 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster U:
•Start number 6 was manually annotated 3 times for cluster U.

Gene Information:

Gene: Applejacks_28 Start: 21142, Stop: 22308, Start Num: 1
Candidate Starts for Applejacks_28:
(Start: 1 @21142 has 2 MA's), (2, 21202), (4, 21241), (5, 21250), (Start: 6 @21253 has 3 MA's), (7, 21271), (8, 21298), (11, 21331), (17, 21409), (21, 21478), (24, 21526), (28, 21541), (36, 21580), (38, 21601), (57, 21739), (58, 21757), (59, 21769), (60, 21784), (63, 21817), (64, 21820), (65, 21823), (72, 21943), (75, 21967), (77, 22027), (83, 22075),

Gene: Beaver_33 Start: 37866, Stop: 38768, Start Num: 15
Candidate Starts for Beaver_33:
(Start: 15 @37866 has 13 MA's), (25, 38001), (30, 38031), (34, 38043), (39, 38076), (47, 38127), (51, 38175), (57, 38211), (64, 38292), (66, 38343), (67, 38346), (74, 38436), (86, 38583), (99, 38751),

Gene: BillyBobJr_34 Start: 37893, Stop: 38795, Start Num: 15
Candidate Starts for BillyBobJr_34:
(Start: 15 @37893 has 13 MA's), (32, 38061), (37, 38097), (41, 38112), (43, 38127), (45, 38139), (57, 38238), (64, 38319), (67, 38373), (86, 38610), (95, 38736), (99, 38778),

Gene: BirksAndSocks_33 Start: 37840, Stop: 38742, Start Num: 15
Candidate Starts for BirksAndSocks_33:
(Start: 15 @37840 has 13 MA's), (32, 38008), (37, 38044), (41, 38059), (43, 38074), (45, 38086), (57, 38185), (64, 38266), (67, 38320), (86, 38557), (95, 38683), (99, 38725),

Gene: Boneham_33 Start: 37839, Stop: 38741, Start Num: 15
Candidate Starts for Boneham_33:
(Start: 15 @37839 has 13 MA's), (32, 38007), (37, 38043), (41, 38058), (43, 38073), (45, 38085), (57, 38184), (64, 38265), (67, 38319), (86, 38556), (95, 38682), (99, 38724),

Gene: Butterball_33 Start: 37839, Stop: 38741, Start Num: 15
Candidate Starts for Butterball_33:
(Start: 15 @37839 has 13 MA's), (32, 38007), (37, 38043), (41, 38058), (43, 38073), (45, 38085), (57, 38184), (64, 38265), (67, 38319), (86, 38556), (95, 38682), (99, 38724),

Gene: CherryTomatoes_125 Start: 82351, Stop: 83241, Start Num: 15
Candidate Starts for CherryTomatoes_125:
(Start: 15 @82351 has 13 MA's), (89, 83086),

Gene: CinnamonToast_34 Start: 37893, Stop: 38795, Start Num: 15
Candidate Starts for CinnamonToast_34:
(Start: 15 @37893 has 13 MA's), (32, 38061), (37, 38097), (41, 38112), (43, 38127), (45, 38139), (57, 38238), (64, 38319), (67, 38373), (86, 38610), (95, 38736), (99, 38778),

Gene: DS6A_25 Start: 21526, Stop: 22386, Start Num: 20
Candidate Starts for DS6A_25:
(Start: 20 @21526 has 1 MA's), (23, 21583), (31, 21643), (33, 21646), (35, 21655), (44, 21721), (45, 21730), (46, 21733), (52, 21796), (54, 21808), (55, 21820), (56, 21826), (63, 21910), (74, 22048), (76, 22057), (79, 22129), (80, 22138), (81, 22141), (84, 22159), (85, 22186), (88, 22225), (94, 22279),

Gene: Guillaume_30 Start: 38118, Stop: 39020, Start Num: 15
Candidate Starts for Guillaume_30:
(Start: 15 @38118 has 13 MA's), (25, 38256), (29, 38274), (37, 38325), (45, 38373), (51, 38436), (57, 38472), (69, 38640), (92, 38874), (93, 38892), (98, 38997),

Gene: Jellybones_33 Start: 37898, Stop: 38800, Start Num: 15

Candidate Starts for Jellybones_33:
(Start: 15 @37898 has 13 MA's), (32, 38066), (37, 38102), (41, 38117), (43, 38132), (45, 38144), (57, 38243), (64, 38324), (67, 38378), (86, 38615), (95, 38741), (99, 38783),

Gene: John316_33 Start: 37851, Stop: 38753, Start Num: 15
Candidate Starts for John316_33:
(Start: 15 @37851 has 13 MA's), (25, 37986), (32, 38019), (37, 38055), (41, 38070), (43, 38085), (45, 38097), (57, 38196), (64, 38277), (67, 38331), (86, 38568), (95, 38694), (99, 38736),

Gene: Labelle_37 Start: 32043, Stop: 33083, Start Num: 6
Candidate Starts for Labelle_37:
(Start: 6 @32043 has 3 MA's), (10, 32121), (16, 32199), (40, 32412), (42, 32418), (51, 32496), (61, 32589), (65, 32616),

Gene: Madruga_36 Start: 31712, Stop: 32752, Start Num: 6
Candidate Starts for Madruga_36:
(Start: 6 @31712 has 3 MA's), (10, 31790), (16, 31868), (40, 32081), (42, 32087), (51, 32165), (61, 32258), (65, 32285),

Gene: Mahdia_28 Start: 21227, Stop: 22375, Start Num: 1
Candidate Starts for Mahdia_28:
(Start: 1 @21227 has 2 MA's), (3, 21299), (8, 21374), (9, 21377), (11, 21407), (13, 21440), (18, 21491), (19, 21497), (27, 21617), (38, 21683), (50, 21776), (53, 21800), (57, 21824), (59, 21854), (62, 21896), (66, 21956), (71, 22013), (72, 22028), (74, 22049), (75, 22052), (80, 22136), (82, 22145),

Gene: Morrissey_29 Start: 22778, Stop: 23920, Start Num: 1
Candidate Starts for Morrissey_29:
(Start: 1 @22778 has 2 MA's), (4, 22868), (Start: 6 @22880 has 3 MA's), (7, 22898), (12, 22967), (14, 22994), (26, 23159), (27, 23168), (36, 23213), (38, 23234), (48, 23303), (53, 23351), (57, 23375), (64, 23450), (65, 23453), (68, 23534), (70, 23540), (71, 23558), (72, 23573), (73, 23591), (74, 23594), (78, 23666), (80, 23681), (87, 23750), (90, 23768), (91, 23771), (96, 23867), (97, 23894), (98, 23897),

Gene: Msay19_34 Start: 38032, Stop: 38934, Start Num: 15
Candidate Starts for Msay19_34:
(Start: 15 @38032 has 13 MA's), (22, 38137), (25, 38167), (30, 38197), (34, 38209), (47, 38293), (51, 38341), (57, 38377), (64, 38458), (67, 38512), (74, 38602), (86, 38749), (99, 38917),

Gene: Patience_38 Start: 32593, Stop: 33633, Start Num: 6
Candidate Starts for Patience_38:
(Start: 6 @32593 has 3 MA's), (10, 32671), (16, 32749), (40, 32962), (42, 32968), (51, 33046), (61, 33139), (65, 33166),

Gene: Poland_34 Start: 38011, Stop: 38913, Start Num: 15
Candidate Starts for Poland_34:
(Start: 15 @38011 has 13 MA's), (22, 38116), (25, 38146), (30, 38176), (34, 38188), (47, 38272), (51, 38320), (57, 38356), (64, 38437), (67, 38491), (74, 38581), (86, 38728), (99, 38896),

Gene: Pupper_126 Start: 83200, Stop: 84090, Start Num: 15
Candidate Starts for Pupper_126:
(Start: 15 @83200 has 13 MA's), (49, 83473), (75, 83770), (79, 83839), (89, 83935),

Gene: SCentae_125 Start: 83353, Stop: 84243, Start Num: 15
Candidate Starts for SCentae_125:

(Start: 15 @83353 has 13 MA's), (89, 84088),

Gene: Sticker17_30 Start: 38098, Stop: 39000, Start Num: 15
Candidate Starts for Sticker17_30:
(Start: 15 @38098 has 13 MA's), (25, 38236), (37, 38305), (45, 38353), (51, 38416), (57, 38452), (69, 38620), (92, 38854), (93, 38872), (98, 38977),