Pham 8597

1: Gray_117 + 4
2: DalanDe_104
3: Oogie_115
4: Aloki_112 + 1
5: UBSmoodge_120
6: ChisanaKitsune_119
7: ScarletRaider_118 + 1
8: GMA6_102

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 8597 Report

This analysis was run 04/28/24 on database version 559.

Pham number 8597 has 14 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Gray_117, Chidiebere_120, Kabocha_121, Schomber_118, Hanem_119
• Track 2 : DalanDe_104
• Track 3 : Oogie_115
• Track 4 : Aloki_112, Pakusa_114
• Track 5 : UBSmoodge_120
• Track 6 : ChisanaKitsune_119
• Track 7 : ScarletRaider_118, FlyingTortilla_118
• Track 8 : GMA6_102

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 6 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Chidiebere_120, ChisanaKitsune_119, Gray_117, Hanem_119, Kabocha_121, Schomber_118,

Genes that have the "Most Annotated" start but do not call it:
• Aloki_112, Oogie_115, Pakusa_114,

Genes that do not have the "Most Annotated" start:
• DalanDe_104, FlyingTortilla_118, GMA6_102, ScarletRaider_118, UBSmoodge_120,

Summary by start number:

Start 2:
• Found in 9 of 14 (64.3%) of genes in pham
• Manual Annotations of this start: 6 of 7
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Chidiebere_120 (DQ), ChisanaKitsune_119 (DQ), Gray_117 (DQ), Hanem_119 (DQ), Kabocha_121 (DQ), Schomber_118 (DQ),

Start 3:
• Found in 1 of 14 (7.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA6_102 (DQ),

Start 4:
• Found in 13 of 14 (92.9%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 53.8% of time when present
• Phage (with cluster) where this start called: Aloki_112 (DQ), DalanDe_104 (DQ), FlyingTortilla_118 (DQ), Oogie_115 (DQ), Pakusa_114 (DQ), ScarletRaider_118 (DQ), UBSmoodge_120 (DQ),

Summary by clusters:

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:
•Start number 2 was manually annotated 6 times for cluster DQ.
•Start number 4 was manually annotated 1 time for cluster DQ.

Gene Information:

Gene: Aloki_112 Start: 82882, Stop: 83622, Start Num: 4
Candidate Starts for Aloki_112:
(Start: 2 @82855 has 6 MA's), (Start: 4 @82882 has 1 MA's), (8, 82960), (13, 83050), (14, 83110), (16, 83128), (17, 83134), (19, 83218), (27, 83401), (29, 83530), (31, 83545), (33, 83572), (35, 83608),

Gene: Chidiebere_120 Start: 83985, Stop: 84752, Start Num: 2
Candidate Starts for Chidiebere_120:
(Start: 2 @83985 has 6 MA's), (Start: 4 @84012 has 1 MA's), (8, 84090), (13, 84180), (14, 84240), (16, 84258), (17, 84264), (19, 84348), (27, 84531), (29, 84660), (31, 84675), (33, 84702), (35, 84738),

Gene: ChisanaKitsune_119 Start: 83001, Stop: 83768, Start Num: 2
Candidate Starts for ChisanaKitsune_119:
(Start: 2 @83001 has 6 MA's), (Start: 4 @83028 has 1 MA's), (13, 83196), (14, 83256), (17, 83280), (18, 83292), (19, 83364), (29, 83676), (31, 83691), (33, 83718), (35, 83754),

Gene: DalanDe_104 Start: 80914, Stop: 81645, Start Num: 4
Candidate Starts for DalanDe_104:
(Start: 4 @80914 has 1 MA's), (5, 80944), (6, 80947), (7, 80965), (9, 80998), (12, 81067), (14, 81142), (15, 81154), (16, 81160), (19, 81250), (20, 81265), (21, 81280), (24, 81376), (25, 81397), (26, 81418), (29, 81556), (34, 81601), (35, 81631),

Gene: FlyingTortilla_118 Start: 86830, Stop: 87570, Start Num: 4
Candidate Starts for FlyingTortilla_118:
(1, 86794), (Start: 4 @86830 has 1 MA's), (8, 86908), (9, 86917), (10, 86953), (13, 86998), (14, 87058), (19, 87166), (22, 87208), (25, 87313), (26, 87340), (29, 87478), (30, 87484), (31, 87493), (33, 87520),

Gene: GMA6_102 Start: 74814, Stop: 75557, Start Num: 3
Candidate Starts for GMA6_102:
(3, 74814), (6, 74850), (11, 74949), (13, 74982), (22, 75192), (23, 75222), (25, 75297), (27, 75339), (28, 75423), (31, 75483), (35, 75543),

Gene: Gray_117 Start: 83314, Stop: 84081, Start Num: 2
Candidate Starts for Gray_117:
(Start: 2 @83314 has 6 MA's), (Start: 4 @83341 has 1 MA's), (8, 83419), (13, 83509), (14, 83569), (16, 83587), (17, 83593), (19, 83677), (27, 83860), (29, 83989), (31, 84004), (33, 84031), (35, 84067),

Gene: Hanem_119 Start: 82855, Stop: 83622, Start Num: 2
Candidate Starts for Hanem_119:
(Start: 2 @82855 has 6 MA's), (Start: 4 @82882 has 1 MA's), (8, 82960), (13, 83050), (14, 83110), (16, 83128), (17, 83134), (19, 83218), (27, 83401), (29, 83530), (31, 83545), (33, 83572), (35, 83608),

Gene: Kabocha_121 Start: 84798, Stop: 85565, Start Num: 2
Candidate Starts for Kabocha_121:
(Start: 2 @84798 has 6 MA's), (Start: 4 @84825 has 1 MA's), (8, 84903), (13, 84993), (14, 85053), (16, 85071), (17, 85077), (19, 85161), (27, 85344), (29, 85473), (31, 85488), (33, 85515), (35, 85551),

Gene: Oogie_115 Start: 84845, Stop: 85585, Start Num: 4
Candidate Starts for Oogie_115:
(Start: 2 @84818 has 6 MA's), (Start: 4 @84845 has 1 MA's), (8, 84923), (13, 85013), (14, 85073), (16, 85091), (17, 85097), (19, 85181), (29, 85493), (31, 85508), (33, 85535), (35, 85571),

Gene: Pakusa_114 Start: 82810, Stop: 83550, Start Num: 4
Candidate Starts for Pakusa_114:
(Start: 2 @82783 has 6 MA's), (Start: 4 @82810 has 1 MA's), (8, 82888), (13, 82978), (14, 83038), (16, 83056), (17, 83062), (19, 83146), (27, 83329), (29, 83458), (31, 83473), (33, 83500), (35, 83536),

Gene: ScarletRaider_118 Start: 86047, Stop: 86787, Start Num: 4
Candidate Starts for ScarletRaider_118:
(1, 86011), (Start: 4 @86047 has 1 MA's), (8, 86125), (9, 86134), (10, 86170), (13, 86215), (14, 86275), (19, 86383), (22, 86425), (25, 86530), (26, 86557), (29, 86695), (30, 86701), (31, 86710), (33, 86737),

Gene: Schomber_118 Start: 83186, Stop: 83953, Start Num: 2
Candidate Starts for Schomber_118:
(Start: 2 @83186 has 6 MA's), (Start: 4 @83213 has 1 MA's), (8, 83291), (13, 83381), (14, 83441), (16, 83459), (17, 83465), (19, 83549), (27, 83732), (29, 83861), (31, 83876), (33, 83903), (35, 83939),

Gene: UBSmoodge_120 Start: 86617, Stop: 87357, Start Num: 4
Candidate Starts for UBSmoodge_120:
(1, 86581), (Start: 4 @86617 has 1 MA's), (8, 86695), (9, 86704), (10, 86740), (13, 86785), (14, 86845), (19, 86953), (22, 86995), (25, 87100), (29, 87265), (31, 87280), (32, 87292), (33, 87307), (35, 87343),