Pham 344263


1: ModicumRichard_91 + 3
2: Morgana_98
3: Rockabye_107
4: Chilliams_105
5: BooTeria_96
6: WaddleDee_93 + 2
7: ReginaGlobina_105 + 2
8: Racecar_107
9: FrostedClock_106 + 1
10: Panchaali_97
11: GoldenEssence_92
12: Mimi_106
13: SJReid_110
14: FloraSnap32_103
15: Stewart25555_97
16: Artu_96
17: KSunshine22_100
18: Talia1610_106
19: Phrampa_99
20: Ellewin_94
21: Patbob_105
22: Laure_110

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 344263 Report

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

Pham number 344263 has 30 members, 8 are drafts.

Phages represented in each track:
• Track 1 : ModicumRichard_91, Aleemily_90, Cafasso_91, ObLaDi_91
• Track 2 : Morgana_98
• Track 3 : Rockabye_107
• Track 4 : Chilliams_105
• Track 5 : BooTeria_96
• Track 6 : WaddleDee_93, Emmetator_98, DunneganBoMo_95
• Track 7 : ReginaGlobina_105, LeoJr_105, Atuin_100
• Track 8 : Racecar_107
• Track 9 : FrostedClock_106, Bloom_110
• Track 10 : Panchaali_97
• Track 11 : GoldenEssence_92
• Track 12 : Mimi_106
• Track 13 : SJReid_110
• Track 14 : FloraSnap32_103
• Track 15 : Stewart25555_97
• Track 16 : Artu_96
• Track 17 : KSunshine22_100
• Track 18 : Talia1610_106
• Track 19 : Phrampa_99
• Track 20 : Ellewin_94
• Track 21 : Patbob_105
• Track 22 : Laure_110

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

The start number called the most often in the published annotations is 6, it was called in 13 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_96, Atuin_100, Bloom_110, Chilliams_105, DunneganBoMo_95, Ellewin_94, Emmetator_98, FloraSnap32_103, FrostedClock_106, GoldenEssence_92, KSunshine22_100, Laure_110, LeoJr_105, Panchaali_97, Phrampa_99, ReginaGlobina_105, Rockabye_107, SJReid_110, Stewart25555_97, Talia1610_106, WaddleDee_93,

Genes that have the "Most Annotated" start but do not call it:
• BooTeria_96, Mimi_106, Patbob_105, Racecar_107,

Genes that do not have the "Most Annotated" start:
• Aleemily_90, Cafasso_91, ModicumRichard_91, Morgana_98, ObLaDi_91,

Summary by start number:

Start 3:
• Found in 7 of 30 (23.3%) of genes in pham
• Manual Annotations of this start: 3 of 22
• Called 42.9% of time when present
• Phage (with cluster) where this start called: Mimi_106 (FC), Patbob_105 (FC), Racecar_107 (FC),

Start 5:
• Found in 13 of 30 (43.3%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 7.7% of time when present
• Phage (with cluster) where this start called: BooTeria_96 (FC),

Start 6:
• Found in 25 of 30 (83.3%) of genes in pham
• Manual Annotations of this start: 13 of 22
• Called 84.0% of time when present
• Phage (with cluster) where this start called: Artu_96 (FC), Atuin_100 (FC), Bloom_110 (FC), Chilliams_105 (FC), DunneganBoMo_95 (FC), Ellewin_94 (FC), Emmetator_98 (FC), FloraSnap32_103 (FC), FrostedClock_106 (FC), GoldenEssence_92 (FC), KSunshine22_100 (FC), Laure_110 (UNK), LeoJr_105 (FC), Panchaali_97 (FC), Phrampa_99 (FC), ReginaGlobina_105 (FC), Rockabye_107 (FC), SJReid_110 (FC), Stewart25555_97 (FC), Talia1610_106 (FC), WaddleDee_93 (FC),

Start 7:
• Found in 5 of 30 (16.7%) of genes in pham
• Manual Annotations of this start: 5 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aleemily_90 (DZ), Cafasso_91 (DZ), ModicumRichard_91 (DZ), Morgana_98 (DZ), ObLaDi_91 (DZ),

Summary by clusters:

There are 3 clusters represented in this pham: UNK, FC, DZ,

Info for manual annotations of cluster DZ:
•Start number 7 was manually annotated 5 times for cluster DZ.

Info for manual annotations of cluster FC:
•Start number 3 was manually annotated 3 times for cluster FC.
•Start number 5 was manually annotated 1 time for cluster FC.
•Start number 6 was manually annotated 13 times for cluster FC.

Gene Information:

Gene: Aleemily_90 Start: 53699, Stop: 54325, Start Num: 7
Candidate Starts for Aleemily_90:
(Start: 7 @53699 has 5 MA's), (9, 53726), (14, 53900), (19, 53984), (29, 54104), (33, 54149), (36, 54185), (40, 54257),

Gene: Artu_96 Start: 82489, Stop: 83100, Start Num: 6
Candidate Starts for Artu_96:
(Start: 5 @82441 has 1 MA's), (Start: 6 @82489 has 13 MA's), (25, 82864),

Gene: Atuin_100 Start: 85986, Stop: 86594, Start Num: 6
Candidate Starts for Atuin_100:
(Start: 5 @85941 has 1 MA's), (Start: 6 @85986 has 13 MA's), (29, 86382), (36, 86463),

Gene: Bloom_110 Start: 86089, Stop: 86679, Start Num: 6
Candidate Starts for Bloom_110:
(Start: 3 @86026 has 3 MA's), (Start: 6 @86089 has 13 MA's), (25, 86443), (27, 86452), (28, 86461), (33, 86509), (36, 86545),

Gene: BooTeria_96 Start: 82554, Stop: 83213, Start Num: 5
Candidate Starts for BooTeria_96:
(Start: 5 @82554 has 1 MA's), (Start: 6 @82602 has 13 MA's), (24, 82971),

Gene: Cafasso_91 Start: 53851, Stop: 54477, Start Num: 7
Candidate Starts for Cafasso_91:
(Start: 7 @53851 has 5 MA's), (9, 53878), (14, 54052), (19, 54136), (29, 54256), (33, 54301), (36, 54337), (40, 54409),

Gene: Chilliams_105 Start: 78852, Stop: 79442, Start Num: 6
Candidate Starts for Chilliams_105:
(Start: 5 @78807 has 1 MA's), (Start: 6 @78852 has 13 MA's), (21, 79158), (25, 79203), (26, 79206), (30, 79227), (35, 79281), (36, 79305), (37, 79332), (41, 79380),

Gene: DunneganBoMo_95 Start: 81871, Stop: 82482, Start Num: 6
Candidate Starts for DunneganBoMo_95:
(Start: 5 @81823 has 1 MA's), (Start: 6 @81871 has 13 MA's), (25, 82246),

Gene: Ellewin_94 Start: 81282, Stop: 81893, Start Num: 6
Candidate Starts for Ellewin_94:
(Start: 5 @81234 has 1 MA's), (Start: 6 @81282 has 13 MA's), (24, 81651), (25, 81657), (34, 81729), (36, 81759),

Gene: Emmetator_98 Start: 81826, Stop: 82437, Start Num: 6
Candidate Starts for Emmetator_98:
(Start: 5 @81778 has 1 MA's), (Start: 6 @81826 has 13 MA's), (25, 82201),

Gene: FloraSnap32_103 Start: 84986, Stop: 85579, Start Num: 6
Candidate Starts for FloraSnap32_103:

(Start: 3 @84923 has 3 MA's), (Start: 6 @84986 has 13 MA's), (25, 85340), (31, 85373), (32, 85391), (36, 85442),

Gene: FrostedClock_106 Start: 86286, Stop: 86876, Start Num: 6
Candidate Starts for FrostedClock_106:
(Start: 3 @86223 has 3 MA's), (Start: 6 @86286 has 13 MA's), (25, 86640), (27, 86649), (28, 86658), (33, 86706), (36, 86742),

Gene: GoldenEssence_92 Start: 79881, Stop: 80471, Start Num: 6
Candidate Starts for GoldenEssence_92:
(Start: 3 @79818 has 3 MA's), (Start: 6 @79881 has 13 MA's), (27, 80244), (28, 80253), (33, 80301), (36, 80337),

Gene: KSunshine22_100 Start: 82883, Stop: 83494, Start Num: 6
Candidate Starts for KSunshine22_100:
(Start: 5 @82835 has 1 MA's), (Start: 6 @82883 has 13 MA's), (24, 83252), (25, 83258), (36, 83360),

Gene: Laure_110 Start: 78788, Stop: 79390, Start Num: 6
Candidate Starts for Laure_110:
(4, 78734), (Start: 6 @78788 has 13 MA's), (16, 78977), (18, 79046), (31, 79181), (38, 79307), (43, 79367),

Gene: LeoJr_105 Start: 86221, Stop: 86829, Start Num: 6
Candidate Starts for LeoJr_105:
(Start: 5 @86176 has 1 MA's), (Start: 6 @86221 has 13 MA's), (29, 86617), (36, 86698),

Gene: Mimi_106 Start: 85373, Stop: 86026, Start Num: 3
Candidate Starts for Mimi_106:
(Start: 3 @85373 has 3 MA's), (Start: 6 @85436 has 13 MA's), (25, 85790), (27, 85799), (28, 85808), (36, 85892),

Gene: ModicumRichard_91 Start: 53919, Stop: 54545, Start Num: 7
Candidate Starts for ModicumRichard_91:
(Start: 7 @53919 has 5 MA's), (9, 53946), (14, 54120), (19, 54204), (29, 54324), (33, 54369), (36, 54405), (40, 54477),

Gene: Morgana_98 Start: 56101, Stop: 56727, Start Num: 7
Candidate Starts for Morgana_98:
(1, 55819), (2, 55831), (Start: 7 @56101 has 5 MA's), (8, 56113), (9, 56128), (14, 56302), (19, 56386), (29, 56506), (31, 56518), (33, 56551), (36, 56587), (39, 56656),

Gene: ObLaDi_91 Start: 53945, Stop: 54571, Start Num: 7
Candidate Starts for ObLaDi_91:
(Start: 7 @53945 has 5 MA's), (9, 53972), (14, 54146), (19, 54230), (29, 54350), (33, 54395), (36, 54431), (40, 54503),

Gene: Panchaali_97 Start: 82860, Stop: 83471, Start Num: 6
Candidate Starts for Panchaali_97:
(Start: 6 @82860 has 13 MA's), (31, 83268), (36, 83337),

Gene: Patbob_105 Start: 86108, Stop: 86761, Start Num: 3
Candidate Starts for Patbob_105:

(Start: 3 @86108 has 3 MA's), (Start: 6 @86171 has 13 MA's), (27, 86534), (28, 86543), (33, 86591), (36, 86627),

Gene: Phrampa_99 Start: 87574, Stop: 88167, Start Num: 6
Candidate Starts for Phrampa_99:
(Start: 6 @87574 has 13 MA's), (10, 87619), (13, 87703), (20, 87865), (21, 87883), (22, 87898), (36, 88030), (42, 88126),

Gene: Racecar_107 Start: 86026, Stop: 86679, Start Num: 3
Candidate Starts for Racecar_107:
(Start: 3 @86026 has 3 MA's), (Start: 6 @86089 has 13 MA's), (25, 86443), (27, 86452), (28, 86461), (33, 86509), (36, 86545),

Gene: ReginaGlobina_105 Start: 85786, Stop: 86394, Start Num: 6
Candidate Starts for ReginaGlobina_105:
(Start: 5 @85741 has 1 MA's), (Start: 6 @85786 has 13 MA's), (29, 86182), (36, 86263),

Gene: Rockabye_107 Start: 79290, Stop: 79880, Start Num: 6
Candidate Starts for Rockabye_107:
(Start: 5 @79245 has 1 MA's), (Start: 6 @79290 has 13 MA's), (35, 79719), (36, 79743), (37, 79770),

Gene: SJReid_110 Start: 78336, Stop: 78929, Start Num: 6
Candidate Starts for SJReid_110:
(Start: 6 @78336 has 13 MA's), (10, 78381), (13, 78465), (15, 78522), (17, 78549), (23, 78681), (35, 78768), (36, 78792), (41, 78867),

Gene: Stewart25555_97 Start: 82605, Stop: 83216, Start Num: 6
Candidate Starts for Stewart25555_97:
(Start: 5 @82557 has 1 MA's), (Start: 6 @82605 has 13 MA's), (11, 82659), (12, 82728), (29, 83001), (36, 83082),

Gene: Talia1610_106 Start: 85455, Stop: 86045, Start Num: 6
Candidate Starts for Talia1610_106:
(Start: 6 @85455 has 13 MA's), (25, 85809), (27, 85818), (28, 85827), (33, 85875), (36, 85911),

Gene: WaddleDee_93 Start: 81057, Stop: 81668, Start Num: 6
Candidate Starts for WaddleDee_93:
(Start: 5 @81009 has 1 MA's), (Start: 6 @81057 has 13 MA's), (25, 81432),