Pham 348103


1: Evaa_3
2: Chilliams_307 + 1
3: Atuin_10 + 1
4: Ellewin_257
5: FloraSnap32_298 + 1
6: Bloom_19 + 1
7: Racecar_18 + 1
8: Emmetator_258
9: BooTeria_255
10: Panchaali_257
11: Stewart25555_258
12: Rockabye_312 + 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 348103 Report

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

Pham number 348103 has 18 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Evaa_3
• Track 2 : Chilliams_307, Chilliams_16
• Track 3 : Atuin_10, Atuin_310
• Track 4 : Ellewin_257
• Track 5 : FloraSnap32_298, FloraSnap32_15
• Track 6 : Bloom_19, Bloom_306
• Track 7 : Racecar_18, Racecar_307
• Track 8 : Emmetator_258
• Track 9 : BooTeria_255
• Track 10 : Panchaali_257
• Track 11 : Stewart25555_258
• Track 12 : Rockabye_312, Rockabye_15

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

The start number called the most often in the published annotations is 9, it was called in 7 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Atuin_10, Atuin_310, Bloom_19, Bloom_306, Evaa_3, FloraSnap32_15, FloraSnap32_298, Rockabye_15, Rockabye_312,

Genes that have the "Most Annotated" start but do not call it:
• Chilliams_16, Chilliams_307, Racecar_18, Racecar_307,

Genes that do not have the "Most Annotated" start:
• BooTeria_255, Ellewin_257, Emmetator_258, Panchaali_257, Stewart25555_258,

Summary by start number:

Start 4:
• Found in 4 of 18 (22.2%) of genes in pham
• Manual Annotations of this start: 2 of 12
• Called 50.0% of time when present

• Phage (with cluster) where this start called: Racecar_18 (FC), Racecar_307 (FC),

Start 8:
• Found in 2 of 18 (11.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chilliams_16 (FC), Chilliams_307 (FC),

Start 9:
• Found in 13 of 18 (72.2%) of genes in pham
• Manual Annotations of this start: 7 of 12
• Called 69.2% of time when present
• Phage (with cluster) where this start called: Atuin_10 (FC), Atuin_310 (FC), Bloom_19 (FC), Bloom_306 (FC), Evaa_3 (DR), FloraSnap32_15 (FC), FloraSnap32_298 (FC), Rockabye_15 (FC), Rockabye_312 (FC),

Start 10:
• Found in 5 of 18 (27.8%) of genes in pham
• Manual Annotations of this start: 3 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BooTeria_255 (FC), Ellewin_257 (FC), Emmetator_258 (FC), Panchaali_257 (FC), Stewart25555_258 (FC),

Summary by clusters:

There are 2 clusters represented in this pham: FC, DR,

Info for manual annotations of cluster DR:
•Start number 9 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster FC:
•Start number 4 was manually annotated 2 times for cluster FC.
•Start number 9 was manually annotated 6 times for cluster FC.
•Start number 10 was manually annotated 3 times for cluster FC.

Gene Information:

Gene: Atuin_10 Start: 5595, Stop: 5981, Start Num: 9
Candidate Starts for Atuin_10:
(Start: 9 @5595 has 7 MA's), (13, 5670), (14, 5700), (15, 5730), (19, 5790), (21, 5814), (23, 5916),

Gene: Atuin_310 Start: 182483, Stop: 182869, Start Num: 9
Candidate Starts for Atuin_310:
(Start: 9 @182483 has 7 MA's), (13, 182558), (14, 182588), (15, 182618), (19, 182678), (21, 182702), (23, 182804),

Gene: Bloom_19 Start: 8927, Stop: 9316, Start Num: 9
Candidate Starts for Bloom_19:
(Start: 4 @8852 has 2 MA's), (6, 8870), (Start: 9 @8927 has 7 MA's), (15, 9062), (21, 9146), (23, 9248),

Gene: Bloom_306 Start: 182402, Stop: 182791, Start Num: 9
Candidate Starts for Bloom_306:
(Start: 4 @182327 has 2 MA's), (6, 182345), (Start: 9 @182402 has 7 MA's), (15, 182537), (21, 182621), (23, 182723),

Gene: BooTeria_255 Start: 166752, Stop: 167144, Start Num: 10
Candidate Starts for BooTeria_255:
(5, 166680), (Start: 10 @166752 has 3 MA's), (14, 166857), (15, 166887), (18, 166944), (23, 167073), (25, 167118),

Gene: Chilliams_307 Start: 180347, Stop: 180757, Start Num: 8
Candidate Starts for Chilliams_307:
(8, 180347), (Start: 9 @180359 has 7 MA's), (12, 180407), (14, 180467), (15, 180497), (18, 180554), (23, 180689),

Gene: Chilliams_16 Start: 7613, Stop: 8023, Start Num: 8
Candidate Starts for Chilliams_16:
(8, 7613), (Start: 9 @7625 has 7 MA's), (12, 7673), (14, 7733), (15, 7763), (18, 7820), (23, 7955),

Gene: Ellewin_257 Start: 166932, Stop: 167318, Start Num: 10
Candidate Starts for Ellewin_257:
(Start: 10 @166932 has 3 MA's), (15, 167061), (18, 167118), (19, 167121), (23, 167247), (25, 167292),

Gene: Emmetator_258 Start: 165634, Stop: 166026, Start Num: 10
Candidate Starts for Emmetator_258:
(5, 165562), (Start: 10 @165634 has 3 MA's), (14, 165739), (15, 165769), (18, 165826), (23, 165955), (25, 166000),

Gene: Evaa_3 Start: 2619, Stop: 2239, Start Num: 9
Candidate Starts for Evaa_3:
(Start: 9 @2619 has 7 MA's), (11, 2589), (16, 2469), (17, 2463), (20, 2421), (24, 2286),

Gene: FloraSnap32_298 Start: 181822, Stop: 182211, Start Num: 9
Candidate Starts for FloraSnap32_298:
(Start: 9 @181822 has 7 MA's), (15, 181957), (21, 182041), (23, 182143),

Gene: FloraSnap32_15 Start: 7684, Stop: 8073, Start Num: 9
Candidate Starts for FloraSnap32_15:
(Start: 9 @7684 has 7 MA's), (15, 7819), (21, 7903), (23, 8005),

Gene: Panchaali_257 Start: 167226, Stop: 167618, Start Num: 10
Candidate Starts for Panchaali_257:
(Start: 10 @167226 has 3 MA's), (14, 167331), (15, 167361), (18, 167418), (19, 167421), (23, 167547), (25, 167592),

Gene: Racecar_18 Start: 8852, Stop: 9316, Start Num: 4
Candidate Starts for Racecar_18:
(Start: 4 @8852 has 2 MA's), (6, 8870), (Start: 9 @8927 has 7 MA's), (15, 9062), (21, 9146), (23, 9248),

Gene: Racecar_307 Start: 182561, Stop: 183025, Start Num: 4
Candidate Starts for Racecar_307:

(Start: 4 @182561 has 2 MA's), (6, 182579), (Start: 9 @182636 has 7 MA's), (15, 182771), (21, 182855), (23, 182957),

Gene: Rockabye_312 Start: 180386, Stop: 180778, Start Num: 9
Candidate Starts for Rockabye_312:
(1, 180143), (2, 180203), (3, 180248), (Start: 9 @180386 has 7 MA's), (14, 180494), (15, 180524), (18, 180581), (22, 180665), (23, 180710), (25, 180755),

Gene: Rockabye_15 Start: 7773, Stop: 8165, Start Num: 9
Candidate Starts for Rockabye_15:
(1, 7530), (2, 7590), (3, 7635), (Start: 9 @7773 has 7 MA's), (14, 7881), (15, 7911), (18, 7968), (22, 8052), (23, 8097), (25, 8142),

Gene: Stewart25555_258 Start: 166538, Stop: 166921, Start Num: 10
Candidate Starts for Stewart25555_258:
(7, 166505), (Start: 10 @166538 has 3 MA's), (14, 166634), (15, 166664), (18, 166721), (19, 166724), (20, 166733), (23, 166850), (25, 166895),