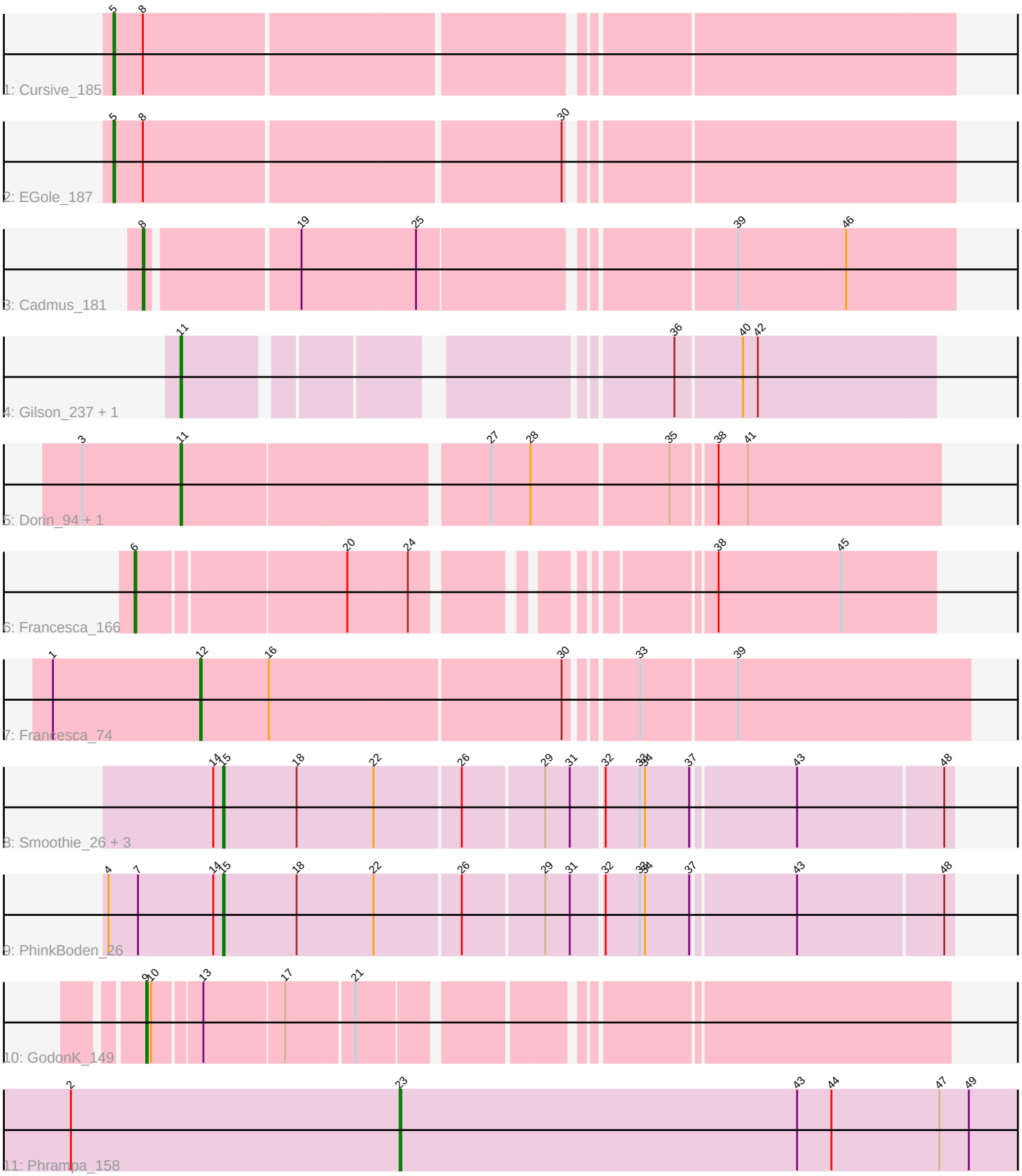
Pham 305385


1: Cursive_185
2: EGole_187
3: Cadmus_181
4: Gilson_237 + 1
5: Dorin_94 + 1
6: Francesca_166
7: Francesca_74
8: Smoothie_26 + 3
9: PhinkBoden_26
10: GodonK_149
11: Phramba_158

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 305385 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305385 has 16 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Cursive_185
• Track 2 : EGole_187
• Track 3 : Cadmus_181
• Track 4 : Gilson_237, Phredrick_242
• Track 5 : Dorin_94, Francesca_94
• Track 6 : Francesca_166
• Track 7 : Francesca_74
• Track 8 : Smoothie_26, Aphelion_25, Lozinak_25, Norvs_26
• Track 9 : PhinkBoden_26
• Track 10 : GodonK_149
• Track 11 : Phrampa_158

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 5 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aphelion_25, Lozinak_25, Norvs_26, PhinkBoden_26, Smoothie_26,

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

Genes that do not have the "Most Annotated" start:
• Cadmus_181, Cursive_185, Dorin_94, EGole_187, Francesca_166, Francesca_74, Francesca_94, Gilson_237, GodonK_149, Phrampa_158, Phredrick_242,

Summary by start number:

Start 5:
• Found in 2 of 16 (12.5%) of genes in pham
• Manual Annotations of this start: 2 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cursive_185 (BE1), EGole_187 (BE1),

Start 6:
• Found in 1 of 16 (6.2%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Francesca_166 (CG),

Start 8:
• Found in 3 of 16 (18.8%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Cadmus_181 (BE1),

Start 9:
• Found in 1 of 16 (6.2%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GodonK_149 (DK),

Start 11:
• Found in 4 of 16 (25.0%) of genes in pham
• Manual Annotations of this start: 4 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dorin_94 (CG), Francesca_94 (CG), Gilson_237 (BK1), Phredrick_242 (BK1),

Start 12:
• Found in 1 of 16 (6.2%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Francesca_74 (CG),

Start 15:
• Found in 5 of 16 (31.2%) of genes in pham
• Manual Annotations of this start: 5 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aphelion_25 (CQ1), Lozinak_25 (CQ1), Norvs_26 (CQ1), PhinkBoden_26 (CQ1), Smoothie_26 (CQ1),

Start 23:
• Found in 1 of 16 (6.2%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phrampa_158 (FC),

Summary by clusters:

There are 6 clusters represented in this pham: DK, CG, FC, BK1, CQ1, BE1,

Info for manual annotations of cluster BE1:
•Start number 5 was manually annotated 2 times for cluster BE1.
•Start number 8 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BK1:
•Start number 11 was manually annotated 2 times for cluster BK1.

Info for manual annotations of cluster CG:
•Start number 6 was manually annotated 1 time for cluster CG.
•Start number 11 was manually annotated 2 times for cluster CG.
•Start number 12 was manually annotated 1 time for cluster CG.

Info for manual annotations of cluster CQ1:
•Start number 15 was manually annotated 5 times for cluster CQ1.

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

Info for manual annotations of cluster FC:
•Start number 23 was manually annotated 1 time for cluster FC.

Gene Information:

Gene: Aphelion_25 Start: 6963, Stop: 7388, Start Num: 15
Candidate Starts for Aphelion_25:
(14, 6957), (Start: 15 @6963 has 5 MA's), (18, 7008), (22, 7053), (26, 7104), (29, 7152), (31, 7167), (32, 7185), (33, 7206), (34, 7209), (37, 7236), (43, 7296), (48, 7383),

Gene: Cadmus_181 Start: 98306, Stop: 97842, Start Num: 8
Candidate Starts for Cadmus_181:
(Start: 8 @98306 has 1 MA's), (19, 98219), (25, 98150), (39, 97973), (46, 97907),

Gene: Cursive_185 Start: 97975, Stop: 97490, Start Num: 5
Candidate Starts for Cursive_185:
(Start: 5 @97975 has 2 MA's), (Start: 8 @97957 has 1 MA's),

Gene: Dorin_94 Start: 72328, Stop: 72768, Start Num: 11
Candidate Starts for Dorin_94:
(3, 72268), (Start: 11 @72328 has 4 MA's), (27, 72505), (28, 72529), (35, 72610), (38, 72634), (41, 72652),

Gene: EGole_187 Start: 100543, Stop: 100058, Start Num: 5
Candidate Starts for EGole_187:
(Start: 5 @100543 has 2 MA's), (Start: 8 @100525 has 1 MA's), (30, 100279),

Gene: Francesca_94 Start: 73066, Stop: 73506, Start Num: 11
Candidate Starts for Francesca_94:
(3, 73006), (Start: 11 @73066 has 4 MA's), (27, 73243), (28, 73267), (35, 73348), (38, 73372), (41, 73390),

Gene: Francesca_166 Start: 93586, Stop: 94017, Start Num: 6
Candidate Starts for Francesca_166:
(Start: 6 @93586 has 1 MA's), (20, 93706), (24, 93742), (38, 93886), (45, 93961),

Gene: Francesca_74 Start: 59375, Stop: 59824, Start Num: 12

Candidate Starts for Francesca_74:
(1, 59285), (Start: 12 @59375 has 1 MA's), (16, 59417), (30, 59591), (33, 59627), (39, 59684),

Gene: Gilson_237 Start: 113675, Stop: 114088, Start Num: 11
Candidate Starts for Gilson_237:
(Start: 11 @113675 has 4 MA's), (36, 113933), (40, 113972), (42, 113981),

Gene: GodonK_149 Start: 81229, Stop: 80786, Start Num: 9
Candidate Starts for GodonK_149:
(Start: 9 @81229 has 1 MA's), (10, 81226), (13, 81199), (17, 81151), (21, 81112),

Gene: Lozinak_25 Start: 6966, Stop: 7391, Start Num: 15
Candidate Starts for Lozinak_25:
(14, 6960), (Start: 15 @6966 has 5 MA's), (18, 7011), (22, 7056), (26, 7107), (29, 7155), (31, 7170), (32, 7188), (33, 7209), (34, 7212), (37, 7239), (43, 7299), (48, 7386),

Gene: Norvs_26 Start: 6966, Stop: 7391, Start Num: 15
Candidate Starts for Norvs_26:
(14, 6960), (Start: 15 @6966 has 5 MA's), (18, 7011), (22, 7056), (26, 7107), (29, 7155), (31, 7170), (32, 7188), (33, 7209), (34, 7212), (37, 7239), (43, 7299), (48, 7386),

Gene: PhinkBoden_26 Start: 7347, Stop: 7772, Start Num: 15
Candidate Starts for PhinkBoden_26:
(4, 7278), (7, 7296), (14, 7341), (Start: 15 @7347 has 5 MA's), (18, 7392), (22, 7437), (26, 7488), (29, 7536), (31, 7551), (32, 7569), (33, 7590), (34, 7593), (37, 7620), (43, 7680), (48, 7767),

Gene: Phrampa_158 Start: 113105, Stop: 113509, Start Num: 23
Candidate Starts for Phrampa_158:
(2, 112904), (Start: 23 @113105 has 1 MA's), (43, 113348), (44, 113369), (47, 113435), (49, 113453),

Gene: Phredrick_242 Start: 113457, Stop: 113870, Start Num: 11
Candidate Starts for Phredrick_242:
(Start: 11 @113457 has 4 MA's), (36, 113715), (40, 113754), (42, 113763),

Gene: Smoothie_26 Start: 6966, Stop: 7391, Start Num: 15
Candidate Starts for Smoothie_26:
(14, 6960), (Start: 15 @6966 has 5 MA's), (18, 7011), (22, 7056), (26, 7107), (29, 7155), (31, 7170), (32, 7188), (33, 7209), (34, 7212), (37, 7239), (43, 7299), (48, 7386),