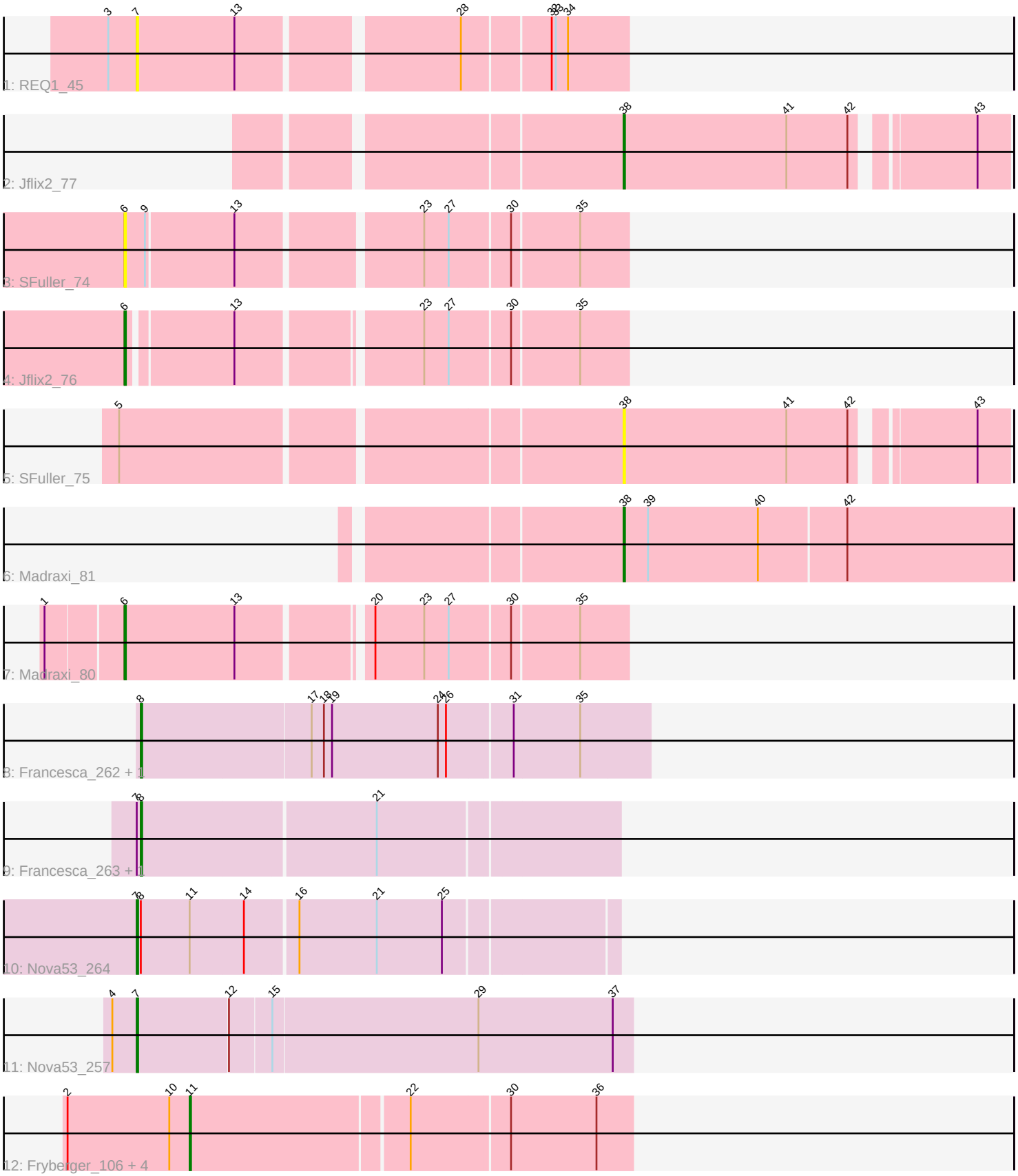
Pham 297003


1: REQ1_45
2: Jflix2_77
3: SFuller_74
4: Jflix2_76
5: SFuller_75
6: Madraxi_81
7: Madraxi_80
8: Francesca_262 + 1
9: Francesca_263 + 1
10: Nova53_264
11: Nova53_257
12: Fryberger_106 + 4

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 297003 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297003 has 18 members, 3 are drafts.

Phages represented in each track:
• Track 1 : REQ1_45
• Track 2 : Jflix2_77
• Track 3 : SFuller_74
• Track 4 : Jflix2_76
• Track 5 : SFuller_75
• Track 6 : Madraxi_81
• Track 7 : Madraxi_80
• Track 8 : Francesca_262, Dorin_262
• Track 9 : Francesca_263, Dorin_263
• Track 10 : Nova53_264
• Track 11 : Nova53_257
• Track 12 : Fryberger_106, Volt_110, Guey18_111, Ziko_109, Ronaldo_108

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

The start number called the most often in the published annotations is 11, it was called in 5 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Fryberger_106, Guey18_111, Ronaldo_108, Volt_110, Ziko_109,

Genes that have the "Most Annotated" start but do not call it:
• Nova53_264,

Genes that do not have the "Most Annotated" start:
• Dorin_262, Dorin_263, Francesca_262, Francesca_263, Jflix2_76, Jflix2_77, Madraxi_80, Madraxi_81, Nova53_257, REQ1_45, SFuller_74, SFuller_75,

Summary by start number:

Start 6:
• Found in 3 of 18 (16.7%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Jflix2_76 (CF), Madraxi_80 (CF), SFuller_74 (CF),

Start 7:
• Found in 5 of 18 (27.8%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Nova53_257 (CG), Nova53_264 (CG), REQ1_45 (CF),

Start 8:
• Found in 5 of 18 (27.8%) of genes in pham
• Manual Annotations of this start: 4 of 15
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Dorin_262 (CG), Dorin_263 (CG), Francesca_262 (CG), Francesca_263 (CG),

Start 11:
• Found in 6 of 18 (33.3%) of genes in pham
• Manual Annotations of this start: 5 of 15
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Fryberger_106 (DP), Guey18_111 (DP), Ronaldo_108 (DP), Volt_110 (DP), Ziko_109 (DP),

Start 38:
• Found in 3 of 18 (16.7%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jflix2_77 (CF), Madraxi_81 (CF), SFuller_75 (CF),

Summary by clusters:

There are 3 clusters represented in this pham: CG, CF, DP,

Info for manual annotations of cluster CF:
•Start number 6 was manually annotated 2 times for cluster CF.
•Start number 38 was manually annotated 2 times for cluster CF.

Info for manual annotations of cluster CG:
•Start number 7 was manually annotated 2 times for cluster CG.
•Start number 8 was manually annotated 4 times for cluster CG.

Info for manual annotations of cluster DP:
•Start number 11 was manually annotated 5 times for cluster DP.

Gene Information:

Gene: Dorin_262 Start: 128550, Stop: 128915, Start Num: 8
Candidate Starts for Dorin_262:

(Start: 8 @128550 has 4 MA's), (17, 128673), (18, 128682), (19, 128688), (24, 128766), (26, 128772), (31, 128817), (35, 128865),

Gene: Dorin_263 Start: 128893, Stop: 129231, Start Num: 8
Candidate Starts for Dorin_263:
(Start: 7 @128890 has 2 MA's), (Start: 8 @128893 has 4 MA's), (21, 129061),

Gene: Francesca_262 Start: 129192, Stop: 129557, Start Num: 8
Candidate Starts for Francesca_262:
(Start: 8 @129192 has 4 MA's), (17, 129315), (18, 129324), (19, 129330), (24, 129408), (26, 129414), (31, 129459), (35, 129507),

Gene: Francesca_263 Start: 129535, Stop: 129873, Start Num: 8
Candidate Starts for Francesca_263:
(Start: 7 @129532 has 2 MA's), (Start: 8 @129535 has 4 MA's), (21, 129703),

Gene: Fryberger_106 Start: 52384, Stop: 52698, Start Num: 11
Candidate Starts for Fryberger_106:
(2, 52294), (10, 52369), (Start: 11 @52384 has 5 MA's), (22, 52540), (30, 52609), (36, 52672),

Gene: Guey18_111 Start: 53707, Stop: 54021, Start Num: 11
Candidate Starts for Guey18_111:
(2, 53617), (10, 53692), (Start: 11 @53707 has 5 MA's), (22, 53863), (30, 53932), (36, 53995),

Gene: Jflix2_77 Start: 46906, Stop: 47172, Start Num: 38
Candidate Starts for Jflix2_77:
(Start: 38 @46906 has 2 MA's), (41, 47026), (42, 47071), (43, 47149),

Gene: Jflix2_76 Start: 46571, Stop: 46909, Start Num: 6
Candidate Starts for Jflix2_76:
(Start: 6 @46571 has 2 MA's), (13, 46643), (23, 46766), (27, 46784), (30, 46826), (35, 46874),

Gene: Madraxi_81 Start: 49694, Stop: 49978, Start Num: 38
Candidate Starts for Madraxi_81:
(Start: 38 @49694 has 2 MA's), (39, 49712), (40, 49793), (42, 49856),

Gene: Madraxi_80 Start: 49350, Stop: 49697, Start Num: 6
Candidate Starts for Madraxi_80:
(1, 49296), (Start: 6 @49350 has 2 MA's), (13, 49431), (20, 49518), (23, 49554), (27, 49572), (30, 49614), (35, 49662),

Gene: Nova53_264 Start: 130197, Stop: 130535, Start Num: 7
Candidate Starts for Nova53_264:
(Start: 7 @130197 has 2 MA's), (Start: 8 @130200 has 4 MA's), (Start: 11 @130236 has 5 MA's), (14, 130275), (16, 130311), (21, 130368), (25, 130416),

Gene: Nova53_257 Start: 128188, Stop: 128547, Start Num: 7
Candidate Starts for Nova53_257:
(4, 128170), (Start: 7 @128188 has 2 MA's), (12, 128254), (15, 128284), (29, 128434), (37, 128533),

Gene: REQ1_45 Start: 18020, Stop: 18358, Start Num: 7
Candidate Starts for REQ1_45:

(3, 17999), (Start: 7 @18020 has 2 MA's), (13, 18092), (28, 18242), (32, 18302), (33, 18305), (34, 18314),

Gene: Ronaldo_108 Start: 53289, Stop: 53603, Start Num: 11
Candidate Starts for Ronaldo_108:
(2, 53199), (10, 53274), (Start: 11 @53289 has 5 MA's), (22, 53445), (30, 53514), (36, 53577),

Gene: SFuller_74 Start: 46761, Stop: 47108, Start Num: 6
Candidate Starts for SFuller_74:
(Start: 6 @46761 has 2 MA's), (9, 46776), (13, 46839), (23, 46965), (27, 46983), (30, 47025), (35, 47073),

Gene: SFuller_75 Start: 47105, Stop: 47371, Start Num: 38
Candidate Starts for SFuller_75:
(5, 46754), (Start: 38 @47105 has 2 MA's), (41, 47225), (42, 47270), (43, 47348),

Gene: Volt_110 Start: 53453, Stop: 53767, Start Num: 11
Candidate Starts for Volt_110:
(2, 53363), (10, 53438), (Start: 11 @53453 has 5 MA's), (22, 53609), (30, 53678), (36, 53741),

Gene: Ziko_109 Start: 53295, Stop: 53609, Start Num: 11
Candidate Starts for Ziko_109:
(2, 53205), (10, 53280), (Start: 11 @53295 has 5 MA's), (22, 53451), (30, 53520), (36, 53583),