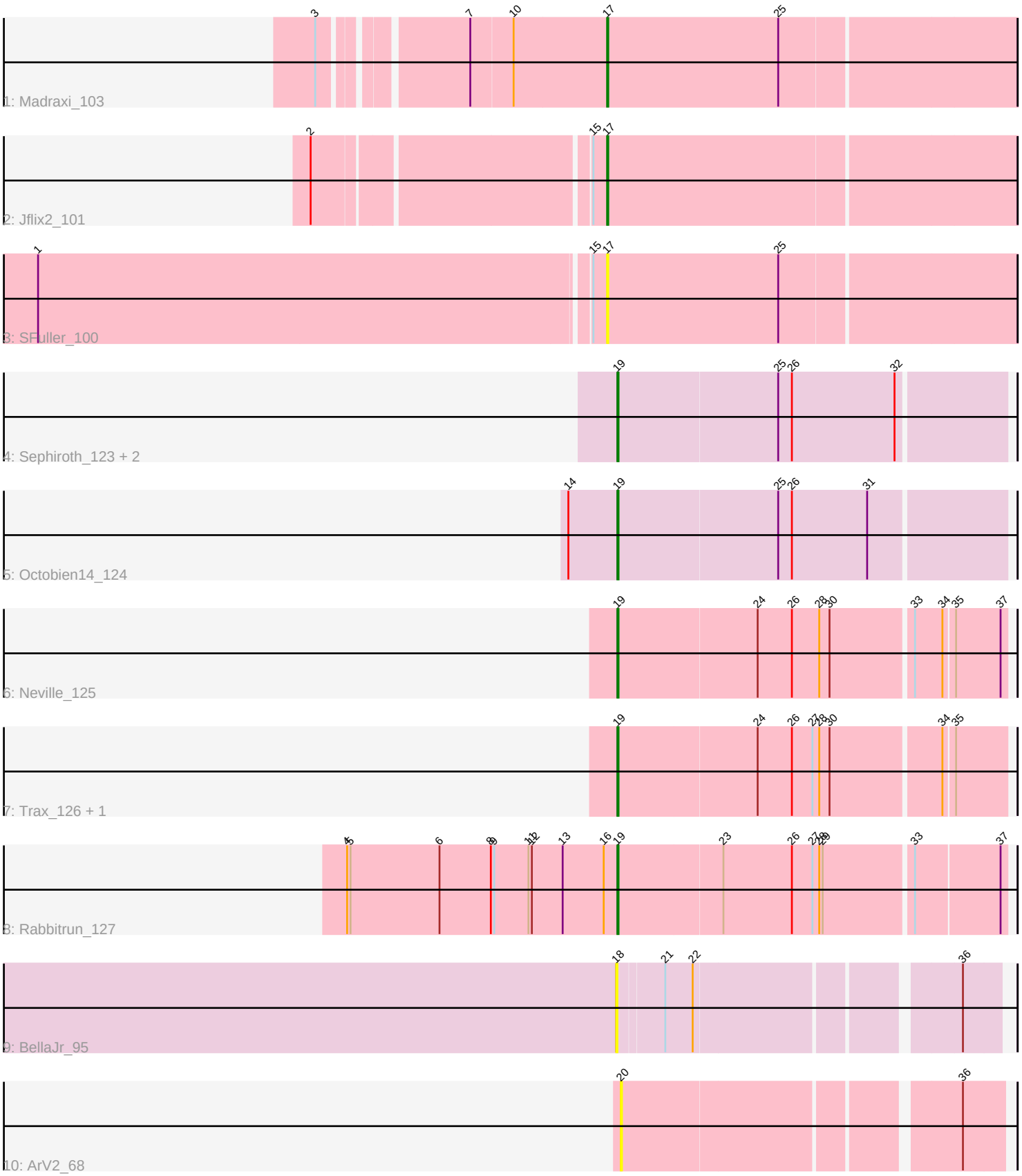
Pham 297102


1: Madraxi_103
2: Jflix2_101
3: SFuller_100
4: Sephiroth_123 + 2
5: Octobien14_124
6: Neville_125
7: Trax_126 + 1
8: Rabbitrun_127
9: BellaJr_95
10: ArV2_68

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 297102 Report

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

Pham number 297102 has 13 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Madraxi_103
• Track 2 : Jflix2_101
• Track 3 : SFuller_100
• Track 4 : Sephiroth_123, Kudefre_128, Syleon_128
• Track 5 : Octobien14_124
• Track 6 : Neville_125
• Track 7 : Trax_126, LilJank_122
• Track 8 : Rabbitrun_127
• Track 9 : BellaJr_95
• Track 10 : ArV2_68

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

The start number called the most often in the published annotations is 19, it was called in 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Kudefre_128, LilJank_122, Neville_125, Octobien14_124, Rabbitrun_127, Sephiroth_123, Syleon_128, Trax_126,

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

Genes that do not have the "Most Annotated" start:
• ArV2_68, BellaJr_95, Jflix2_101, Madraxi_103, SFuller_100,

Summary by start number:

Start 17:
• Found in 3 of 13 (23.1%) of genes in pham
• Manual Annotations of this start: 2 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jflix2_101 (CF), Madraxi_103 (CF), SFuller_100 (CF),

Start 18:
• Found in 1 of 13 (7.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BellaJr_95 (FN),

Start 19:
• Found in 8 of 13 (61.5%) of genes in pham
• Manual Annotations of this start: 7 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kudefre_128 (DU1), LilJank_122 (DU2), Neville_125 (DU2), Octobien14_124 (DU1), Rabbitrun_127 (DU2), Sephiroth_123 (DU1), Syleon_128 (DU1), Trax_126 (DU2),

Start 20:
• Found in 1 of 13 (7.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArV2_68 (singleton),

Summary by clusters:

There are 5 clusters represented in this pham: DU1, singleton, DU2, CF, FN,

Info for manual annotations of cluster CF:
•Start number 17 was manually annotated 2 times for cluster CF.

Info for manual annotations of cluster DU1:
•Start number 19 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:
•Start number 19 was manually annotated 3 times for cluster DU2.

Gene Information:

Gene: ArV2_68 Start: 37011, Stop: 37319, Start Num: 20
Candidate Starts for ArV2_68:
(20, 37011), (36, 37284),

Gene: BellaJr_95 Start: 51784, Stop: 52089, Start Num: 18
Candidate Starts for BellaJr_95:
(18, 51784), (21, 51823), (22, 51847), (36, 52057),

Gene: Jflix2_101 Start: 58160, Stop: 58510, Start Num: 17
Candidate Starts for Jflix2_101:
(2, 57923), (15, 58148), (Start: 17 @58160 has 2 MA's),

Gene: Kudefre_128 Start: 69247, Stop: 69579, Start Num: 19
Candidate Starts for Kudefre_128:

(Start: 19 @69247 has 7 MA's), (25, 69385), (26, 69397), (32, 69487),

Gene: LilJank_122 Start: 71012, Stop: 71341, Start Num: 19
Candidate Starts for LilJank_122:
(Start: 19 @71012 has 7 MA's), (24, 71132), (26, 71162), (27, 71180), (28, 71186), (30, 71195), (34, 71288), (35, 71297),

Gene: Madraxi_103 Start: 60318, Stop: 60668, Start Num: 17
Candidate Starts for Madraxi_103:
(3, 60090), (7, 60201), (10, 60237), (Start: 17 @60318 has 2 MA's), (25, 60468),

Gene: Neville_125 Start: 70232, Stop: 70561, Start Num: 19
Candidate Starts for Neville_125:
(Start: 19 @70232 has 7 MA's), (24, 70352), (26, 70382), (28, 70406), (30, 70415), (33, 70484), (34, 70508), (35, 70517), (37, 70556),

Gene: Octobien14_124 Start: 67781, Stop: 68113, Start Num: 19
Candidate Starts for Octobien14_124:
(14, 67739), (Start: 19 @67781 has 7 MA's), (25, 67919), (26, 67931), (31, 67997),

Gene: Rabbitrun_127 Start: 71852, Stop: 72181, Start Num: 19
Candidate Starts for Rabbitrun_127:
(4, 71615), (5, 71618), (6, 71696), (8, 71741), (9, 71744), (11, 71774), (12, 71777), (13, 71804), (16, 71840), (Start: 19 @71852 has 7 MA's), (23, 71942), (26, 72002), (27, 72020), (28, 72026), (29, 72029), (33, 72104), (37, 72176),

Gene: SFuller_100 Start: 58710, Stop: 59060, Start Num: 17
Candidate Starts for SFuller_100:
(1, 58224), (15, 58698), (Start: 17 @58710 has 2 MA's), (25, 58860),

Gene: Sephiroth_123 Start: 69017, Stop: 69349, Start Num: 19
Candidate Starts for Sephiroth_123:
(Start: 19 @69017 has 7 MA's), (25, 69155), (26, 69167), (32, 69257),

Gene: Syleon_128 Start: 69768, Stop: 70100, Start Num: 19
Candidate Starts for Syleon_128:
(Start: 19 @69768 has 7 MA's), (25, 69906), (26, 69918), (32, 70008),

Gene: Trax_126 Start: 71052, Stop: 71381, Start Num: 19
Candidate Starts for Trax_126:
(Start: 19 @71052 has 7 MA's), (24, 71172), (26, 71202), (27, 71220), (28, 71226), (30, 71235), (34, 71328), (35, 71337),