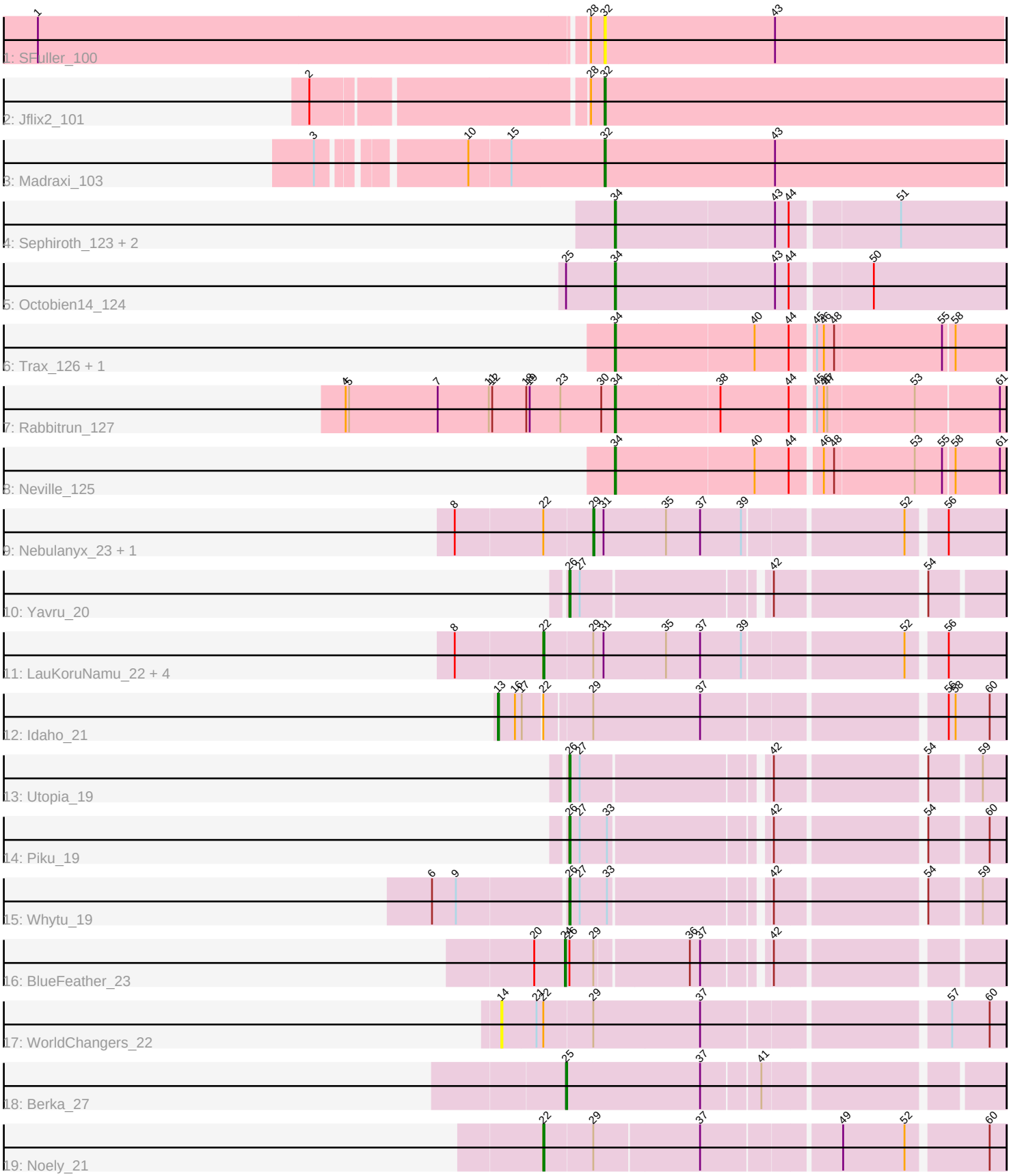
Pham 305240


1: SFuller_100
2: Jflix2_101
3: Madraxi_103
4: Sephiroth_123 + 2
5: Octobien14_124
6: Trax_126 + 1
7: Rabbitrun_127
8: Neville_125
9: Nebulanyx_23 + 1
10: Yavru_20
11: LauKoruNamu_22 + 4
12: Idaho_21
13: Utopia_19
14: Piku_19
15: Whytu_19
16: BlueFeather_23
17: WorldChangers_22
18: Berka_27
19: Noely_21

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 305240 Report

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

Pham number 305240 has 27 members, 4 are drafts.

Phages represented in each track:
• Track 1 : SFuller_100
• Track 2 : Jflix2_101
• Track 3 : Madraxi_103
• Track 4 : Sephiroth_123, Kudefre_128, Syleon_128
• Track 5 : Octobien14_124
• Track 6 : Trax_126, LilJank_122
• Track 7 : Rabbitrun_127
• Track 8 : Neville_125
• Track 9 : Nebulanyx_23, KNG13_23
• Track 10 : Yavru_20
• Track 11 : LauKoruNamu_22, CabbageMan_21, CheeseDanish_23, Corgi_23, Pauu_22
• Track 12 : Idaho_21
• Track 13 : Utopia_19
• Track 14 : Piku_19
• Track 15 : Whytu_19
• Track 16 : BlueFeather_23
• Track 17 : WorldChangers_22
• Track 18 : Berka_27
• Track 19 : Noely_21

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

The start number called the most often in the published annotations is 34, it was called in 7 of the 23 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:

• Berka_27, BlueFeather_23, CabbageMan_21, CheeseDanish_23, Corgi_23, Idaho_21, Jflix2_101, KNG13_23, LauKoruNamu_22, Madraxi_103, Nebulanyx_23, Noely_21, Pauu_22, Piku_19, SFuller_100, Utopia_19, Whytu_19, WorldChangers_22, Yavru_20,

Summary by start number:

Start 13:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Idaho_21 (FE),

Start 14:
• Found in 1 of 27 (3.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: WorldChangers_22 (FE),

Start 22:
• Found in 10 of 27 (37.0%) of genes in pham
• Manual Annotations of this start: 6 of 23
• Called 60.0% of time when present
• Phage (with cluster) where this start called: CabbageMan_21 (FE), CheeseDanish_23 (FE), Corgi_23 (FE), LauKoruNamu_22 (FE), Noely_21 (FE), Pauu_22 (FE),

Start 24:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BlueFeather_23 (FE),

Start 25:
• Found in 2 of 27 (7.4%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Berka_27 (FE),

Start 26:
• Found in 5 of 27 (18.5%) of genes in pham
• Manual Annotations of this start: 4 of 23
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Piku_19 (FE), Utopia_19 (FE), Whytu_19 (FE), Yavru_20 (FE),

Start 29:
• Found in 11 of 27 (40.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 18.2% of time when present
• Phage (with cluster) where this start called: KNG13_23 (FE), Nebulanyx_23 (FE),

Start 32:

• Found in 3 of 27 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jflix2_101 (CF), Madraxi_103 (CF), SFuller_100 (CF),

Start 34:
• Found in 8 of 27 (29.6%) of genes in pham
• Manual Annotations of this start: 7 of 23
• 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),

Summary by clusters:

There are 4 clusters represented in this pham: DU1, DU2, FE, CF,

Info for manual annotations of cluster CF:
•Start number 32 was manually annotated 2 times for cluster CF.

Info for manual annotations of cluster DU1:
•Start number 34 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:
•Start number 34 was manually annotated 3 times for cluster DU2.

Info for manual annotations of cluster FE:
•Start number 13 was manually annotated 1 time for cluster FE.
•Start number 22 was manually annotated 6 times for cluster FE.
•Start number 24 was manually annotated 1 time for cluster FE.
•Start number 25 was manually annotated 1 time for cluster FE.
•Start number 26 was manually annotated 4 times for cluster FE.
•Start number 29 was manually annotated 1 time for cluster FE.

Gene Information:

Gene: Berka_27 Start: 14718, Stop: 15074, Start Num: 25
Candidate Starts for Berka_27:
(Start: 25 @14718 has 1 MA's), (37, 14835), (41, 14883),

Gene: BlueFeather_23 Start: 15433, Stop: 15774, Start Num: 24
Candidate Starts for BlueFeather_23:
(20, 15406), (Start: 24 @15433 has 1 MA's), (Start: 26 @15436 has 4 MA's), (Start: 29 @15457 has 1 MA's), (36, 15535), (37, 15544), (42, 15592),

Gene: CabbageMan_21 Start: 14675, Stop: 15058, Start Num: 22
Candidate Starts for CabbageMan_21:
(8, 14600), (Start: 22 @14675 has 6 MA's), (Start: 29 @14717 has 1 MA's), (31, 14726), (35, 14780), (37, 14810), (39, 14846), (52, 14978), (56, 15008),

Gene: CheeseDanish_23 Start: 14834, Stop: 15217, Start Num: 22
Candidate Starts for CheeseDanish_23:
(8, 14759), (Start: 22 @14834 has 6 MA's), (Start: 29 @14876 has 1 MA's), (31, 14885), (35, 14939), (37, 14969), (39, 15005), (52, 15137), (56, 15167),

Gene: Corgi_23 Start: 14834, Stop: 15217, Start Num: 22
Candidate Starts for Corgi_23:
(8, 14759), (Start: 22 @14834 has 6 MA's), (Start: 29 @14876 has 1 MA's), (31, 14885), (35, 14939), (37, 14969), (39, 15005), (52, 15137), (56, 15167),

Gene: Idaho_21 Start: 14970, Stop: 15386, Start Num: 13
Candidate Starts for Idaho_21:
(Start: 13 @14970 has 1 MA's), (16, 14985), (17, 14991), (Start: 22 @15006 has 6 MA's), (Start: 29 @15045 has 1 MA's), (37, 15138), (56, 15336), (58, 15342), (60, 15372),

Gene: Jflix2_101 Start: 58160, Stop: 58510, Start Num: 32
Candidate Starts for Jflix2_101:
(2, 57923), (28, 58148), (Start: 32 @58160 has 2 MA's),

Gene: KNG13_23 Start: 14873, Stop: 15214, Start Num: 29
Candidate Starts for KNG13_23:
(8, 14756), (Start: 22 @14831 has 6 MA's), (Start: 29 @14873 has 1 MA's), (31, 14882), (35, 14936), (37, 14966), (39, 15002), (52, 15134), (56, 15164),

Gene: Kudefre_128 Start: 69247, Stop: 69579, Start Num: 34
Candidate Starts for Kudefre_128:
(Start: 34 @69247 has 7 MA's), (43, 69385), (44, 69397), (51, 69487),

Gene: LauKoruNamu_22 Start: 14675, Stop: 15058, Start Num: 22
Candidate Starts for LauKoruNamu_22:
(8, 14600), (Start: 22 @14675 has 6 MA's), (Start: 29 @14717 has 1 MA's), (31, 14726), (35, 14780), (37, 14810), (39, 14846), (52, 14978), (56, 15008),

Gene: LilJank_122 Start: 71012, Stop: 71341, Start Num: 34
Candidate Starts for LilJank_122:
(Start: 34 @71012 has 7 MA's), (40, 71132), (44, 71162), (45, 71180), (46, 71186), (48, 71195), (55, 71288), (58, 71297),

Gene: Madraxi_103 Start: 60318, Stop: 60668, Start Num: 32
Candidate Starts for Madraxi_103:
(3, 60090), (10, 60201), (15, 60237), (Start: 32 @60318 has 2 MA's), (43, 60468),

Gene: Nebulanyx_23 Start: 14873, Stop: 15214, Start Num: 29
Candidate Starts for Nebulanyx_23:
(8, 14756), (Start: 22 @14831 has 6 MA's), (Start: 29 @14873 has 1 MA's), (31, 14882), (35, 14936), (37, 14966), (39, 15002), (52, 15134), (56, 15164),

Gene: Neville_125 Start: 70232, Stop: 70561, Start Num: 34
Candidate Starts for Neville_125:
(Start: 34 @70232 has 7 MA's), (40, 70352), (44, 70382), (46, 70406), (48, 70415), (53, 70484), (55, 70508), (58, 70517), (61, 70556),

Gene: Noely_21 Start: 14189, Stop: 14569, Start Num: 22

Candidate Starts for Noely_21:
(Start: 22 @14189 has 6 MA's), (Start: 29 @14231 has 1 MA's), (37, 14321), (49, 14435), (52, 14489), (60, 14555),

Gene: Octobien14_124 Start: 67781, Stop: 68113, Start Num: 34
Candidate Starts for Octobien14_124:
(Start: 25 @67739 has 1 MA's), (Start: 34 @67781 has 7 MA's), (43, 67919), (44, 67931), (50, 67997),

Gene: Pauu_22 Start: 14675, Stop: 15058, Start Num: 22
Candidate Starts for Pauu_22:
(8, 14600), (Start: 22 @14675 has 6 MA's), (Start: 29 @14717 has 1 MA's), (31, 14726), (35, 14780), (37, 14810), (39, 14846), (52, 14978), (56, 15008),

Gene: Piku_19 Start: 14055, Stop: 14396, Start Num: 26
Candidate Starts for Piku_19:
(Start: 26 @14055 has 4 MA's), (27, 14064), (33, 14088), (42, 14214), (54, 14334), (60, 14382),

Gene: Rabbitrun_127 Start: 71852, Stop: 72181, Start Num: 34
Candidate Starts for Rabbitrun_127:
(4, 71615), (5, 71618), (7, 71696), (11, 71741), (12, 71744), (18, 71774), (19, 71777), (23, 71804), (30, 71840), (Start: 34 @71852 has 7 MA's), (38, 71942), (44, 72002), (45, 72020), (46, 72026), (47, 72029), (53, 72104), (61, 72176),

Gene: SFuller_100 Start: 58710, Stop: 59060, Start Num: 32
Candidate Starts for SFuller_100:
(1, 58224), (28, 58698), (Start: 32 @58710 has 2 MA's), (43, 58860),

Gene: Sephiroth_123 Start: 69017, Stop: 69349, Start Num: 34
Candidate Starts for Sephiroth_123:
(Start: 34 @69017 has 7 MA's), (43, 69155), (44, 69167), (51, 69257),

Gene: Syleon_128 Start: 69768, Stop: 70100, Start Num: 34
Candidate Starts for Syleon_128:
(Start: 34 @69768 has 7 MA's), (43, 69906), (44, 69918), (51, 70008),

Gene: Trax_126 Start: 71052, Stop: 71381, Start Num: 34
Candidate Starts for Trax_126:
(Start: 34 @71052 has 7 MA's), (40, 71172), (44, 71202), (45, 71220), (46, 71226), (48, 71235), (55, 71328), (58, 71337),

Gene: Utopia_19 Start: 14050, Stop: 14391, Start Num: 26
Candidate Starts for Utopia_19:
(Start: 26 @14050 has 4 MA's), (27, 14059), (42, 14209), (54, 14329), (59, 14371),

Gene: Whytu_19 Start: 14130, Stop: 14471, Start Num: 26
Candidate Starts for Whytu_19:
(6, 14016), (9, 14037), (Start: 26 @14130 has 4 MA's), (27, 14139), (33, 14163), (42, 14289), (54, 14409), (59, 14451),

Gene: WorldChangers_22 Start: 14409, Stop: 14828, Start Num: 14
Candidate Starts for WorldChangers_22:
(14, 14409), (21, 14439), (Start: 22 @14445 has 6 MA's), (Start: 29 @14487 has 1 MA's), (37, 14580), (57, 14781), (60, 14814),

Gene: Yavru_20 Start: 14060, Stop: 14401, Start Num: 26
Candidate Starts for Yavru_20:
(Start: 26 @14060 has 4 MA's), (27, 14069), (42, 14219), (54, 14339),