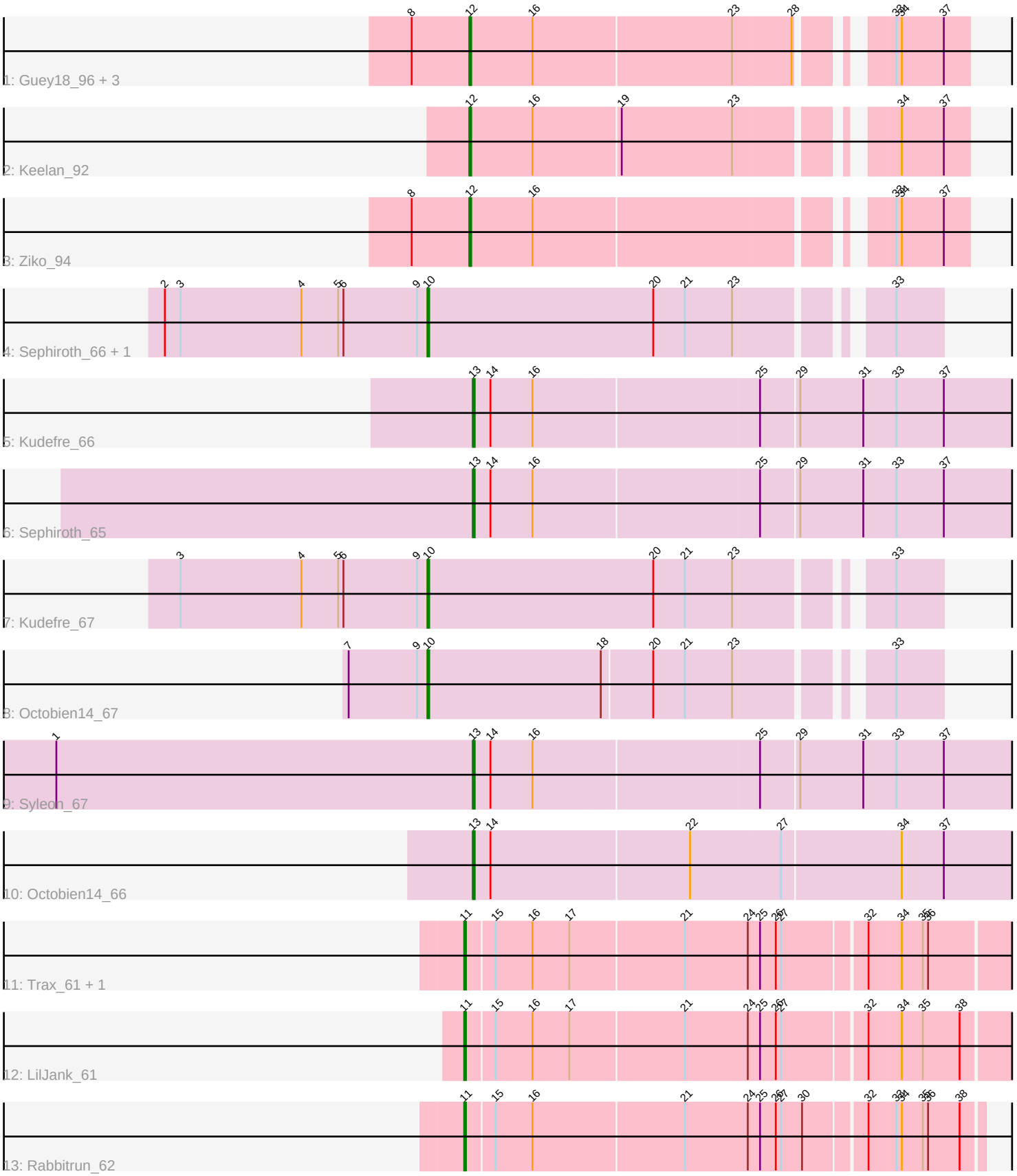
Pham 321898


1: Guey18_96 + 3
2: Keelan_92
3: Ziko_94
4: Sephiroth_66 + 1
5: Kudefre_66
6: Sephiroth_65
7: Kudefre_67
8: Octobien14_67
9: Syleon_67
10: Octobien14_66
11: Trax_61 + 1
12: LilJank_61
13: Rabbitrun_62

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 321898 Report

This analysis was run 09/05/26 on database version 662.

Pham number 321898 has 18 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Guey18_96, Fryberger_91, Ronaldo_94, Volt_95
• Track 2 : Keelan_92
• Track 3 : Ziko_94
• Track 4 : Sephiroth_66, Syleon_68
• Track 5 : Kudefre_66
• Track 6 : Sephiroth_65
• Track 7 : Kudefre_67
• Track 8 : Octobien14_67
• Track 9 : Syleon_67
• Track 10 : Octobien14_66
• Track 11 : Trax_61, Neville_62
• Track 12 : LilJank_61
• Track 13 : Rabbitrun_62

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

The start number called the most often in the published annotations is 12, it was called in 6 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Fryberger_91, Guey18_96, Keelan_92, Ronaldo_94, Volt_95, Ziko_94,

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

Genes that do not have the "Most Annotated" start:
• Kudefre_66, Kudefre_67, LilJank_61, Neville_62, Octobien14_66, Octobien14_67, Rabbitrun_62, Sephiroth_65, Sephiroth_66, Syleon_67, Syleon_68, Trax_61,

Summary by start number:

Start 10:
• Found in 4 of 18 (22.2%) of genes in pham
• Manual Annotations of this start: 4 of 18

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kudefre_67 (DU1), Octobien14_67 (DU1), Sephiroth_66 (DU1), Syleon_68 (DU1),

Start 11:
• Found in 4 of 18 (22.2%) of genes in pham
• Manual Annotations of this start: 4 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilJank_61 (DU2), Neville_62 (DU2), Rabbitrun_62 (DU2), Trax_61 (DU2),

Start 12:
• Found in 6 of 18 (33.3%) of genes in pham
• Manual Annotations of this start: 6 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fryberger_91 (DP), Guey18_96 (DP), Keelan_92 (DP), Ronaldo_94 (DP), Volt_95 (DP), Ziko_94 (DP),

Start 13:
• Found in 4 of 18 (22.2%) of genes in pham
• Manual Annotations of this start: 4 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kudefre_66 (DU1), Octobien14_66 (DU1), Sephiroth_65 (DU1), Syleon_67 (DU1),

Summary by clusters:

There are 3 clusters represented in this pham: DU1, DU2, DP,

Info for manual annotations of cluster DP:
•Start number 12 was manually annotated 6 times for cluster DP.

Info for manual annotations of cluster DU1:
•Start number 10 was manually annotated 4 times for cluster DU1.
•Start number 13 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:
•Start number 11 was manually annotated 4 times for cluster DU2.

Gene Information:

Gene: Fryberger_91 Start: 46597, Stop: 46854, Start Num: 12
Candidate Starts for Fryberger_91:
(8, 46564), (Start: 12 @46597 has 6 MA's), (16, 46633), (23, 46744), (28, 46777), (33, 46813), (34, 46816), (37, 46840),

Gene: Guey18_96 Start: 47917, Stop: 48174, Start Num: 12
Candidate Starts for Guey18_96:
(8, 47884), (Start: 12 @47917 has 6 MA's), (16, 47953), (23, 48064), (28, 48097), (33, 48133), (34, 48136), (37, 48160),

Gene: Keelan_92 Start: 47492, Stop: 47749, Start Num: 12
Candidate Starts for Keelan_92:
(Start: 12 @47492 has 6 MA's), (16, 47528), (19, 47576), (23, 47639), (34, 47711), (37, 47735),

Gene: Kudefre_66 Start: 42903, Stop: 43214, Start Num: 13
Candidate Starts for Kudefre_66:
(Start: 13 @42903 has 4 MA's), (14, 42912), (16, 42936), (25, 43062), (29, 43083), (31, 43119), (33, 43137), (37, 43164),

Gene: Kudefre_67 Start: 43183, Stop: 43455, Start Num: 10
Candidate Starts for Kudefre_67:
(3, 43042), (4, 43111), (5, 43132), (6, 43135), (9, 43177), (Start: 10 @43183 has 4 MA's), (20, 43312), (21, 43330), (23, 43357), (33, 43429),

Gene: LilJank_61 Start: 41591, Stop: 41893, Start Num: 11
Candidate Starts for LilJank_61:
(Start: 11 @41591 has 4 MA's), (15, 41606), (16, 41627), (17, 41648), (21, 41711), (24, 41747), (25, 41753), (26, 41762), (27, 41765), (32, 41810), (34, 41828), (35, 41840), (38, 41861),

Gene: Neville_62 Start: 41253, Stop: 41555, Start Num: 11
Candidate Starts for Neville_62:
(Start: 11 @41253 has 4 MA's), (15, 41268), (16, 41289), (17, 41310), (21, 41373), (24, 41409), (25, 41415), (26, 41424), (27, 41427), (32, 41472), (34, 41490), (35, 41502), (36, 41505),

Gene: Octobien14_67 Start: 43480, Stop: 43749, Start Num: 10
Candidate Starts for Octobien14_67:
(7, 43435), (9, 43474), (Start: 10 @43480 has 4 MA's), (18, 43579), (20, 43606), (21, 43624), (23, 43651), (33, 43723),

Gene: Octobien14_66 Start: 43200, Stop: 43511, Start Num: 13
Candidate Starts for Octobien14_66:
(Start: 13 @43200 has 4 MA's), (14, 43209), (22, 43320), (27, 43371), (34, 43437), (37, 43461),

Gene: Rabbitrun_62 Start: 41462, Stop: 41743, Start Num: 11
Candidate Starts for Rabbitrun_62:
(Start: 11 @41462 has 4 MA's), (15, 41477), (16, 41498), (21, 41582), (24, 41618), (25, 41624), (26, 41633), (27, 41636), (30, 41648), (32, 41681), (33, 41696), (34, 41699), (35, 41711), (36, 41714), (38, 41732),

Gene: Ronaldo_94 Start: 47499, Stop: 47756, Start Num: 12
Candidate Starts for Ronaldo_94:
(8, 47466), (Start: 12 @47499 has 6 MA's), (16, 47535), (23, 47646), (28, 47679), (33, 47715), (34, 47718), (37, 47742),

Gene: Sephiroth_66 Start: 43355, Stop: 43627, Start Num: 10
Candidate Starts for Sephiroth_66:
(2, 43205), (3, 43214), (4, 43283), (5, 43304), (6, 43307), (9, 43349), (Start: 10 @43355 has 4 MA's), (20, 43484), (21, 43502), (23, 43529), (33, 43601),

Gene: Sephiroth_65 Start: 43075, Stop: 43386, Start Num: 13
Candidate Starts for Sephiroth_65:
(Start: 13 @43075 has 4 MA's), (14, 43084), (16, 43108), (25, 43234), (29, 43255), (31, 43291), (33, 43309), (37, 43336),

Gene: Syleon_68 Start: 43296, Stop: 43568, Start Num: 10
Candidate Starts for Syleon_68:
(2, 43146), (3, 43155), (4, 43224), (5, 43245), (6, 43248), (9, 43290), (Start: 10 @43296 has 4 MA's), (20, 43425), (21, 43443), (23, 43470), (33, 43542),

Gene: Syleon_67 Start: 43016, Stop: 43327, Start Num: 13
Candidate Starts for Syleon_67:
(1, 42779), (Start: 13 @43016 has 4 MA's), (14, 43025), (16, 43049), (25, 43175), (29, 43196), (31, 43232), (33, 43250), (37, 43277),

Gene: Trax_61 Start: 41538, Stop: 41840, Start Num: 11
Candidate Starts for Trax_61:
(Start: 11 @41538 has 4 MA's), (15, 41553), (16, 41574), (17, 41595), (21, 41658), (24, 41694), (25, 41700), (26, 41709), (27, 41712), (32, 41757), (34, 41775), (35, 41787), (36, 41790),

Gene: Volt_95 Start: 47663, Stop: 47920, Start Num: 12
Candidate Starts for Volt_95:
(8, 47630), (Start: 12 @47663 has 6 MA's), (16, 47699), (23, 47810), (28, 47843), (33, 47879), (34, 47882), (37, 47906),

Gene: Ziko_94 Start: 47484, Stop: 47741, Start Num: 12
Candidate Starts for Ziko_94:
(8, 47451), (Start: 12 @47484 has 6 MA's), (16, 47520), (33, 47700), (34, 47703), (37, 47727),