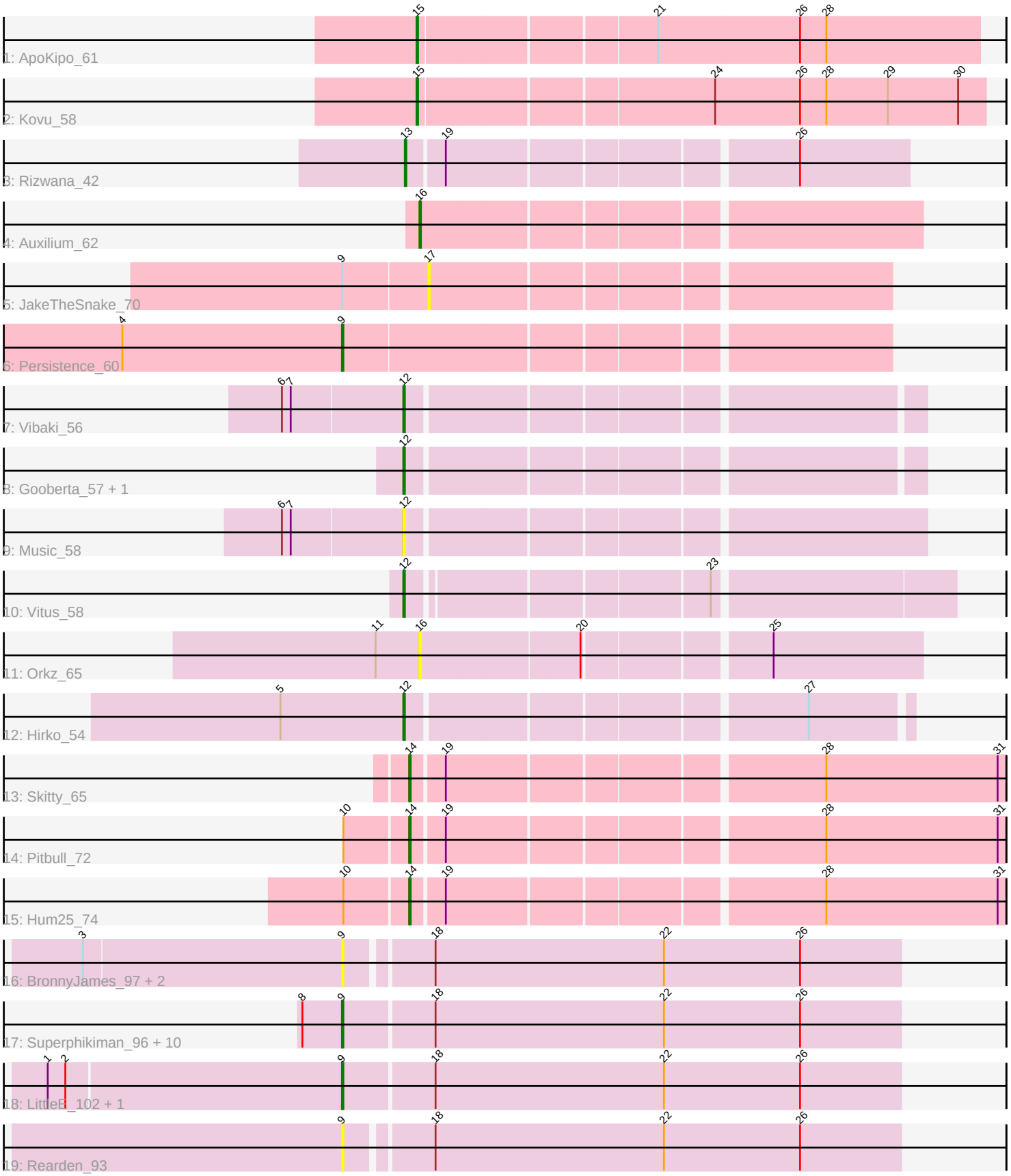
Pham 342394


1: ApoKipo_61
2: Kovu_58
3: Rizwana_42
4: Auxilium_62
5: JakeTheSnake_70
6: Persistence_60
7: Vibaki_56
8: Gooberta_57 + 1
9: Music_58
10: Vitus_58
11: Orkz_65
12: Hirko_54
13: Skitty_65
14: Pitbull_72
15: Hum25_74
16: BronnyJames_97 + 2
17: Superphikiman_96 + 10
18: LittleB_102 + 1
19: Rearden_93

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 342394 Report

This analysis was run 11/14/26 on database version 672.

Pham number 342394 has 33 members, 9 are drafts.

Phages represented in each track:
• Track 1 : ApoKipo_61
• Track 2 : Kovu_58
• Track 3 : Rizwana_42
• Track 4 : Auxilium_62
• Track 5 : JakeTheSnake_70
• Track 6 : Persistence_60
• Track 7 : Vibaki_56
• Track 8 : Gooberta_57, GoldDust_56
• Track 9 : Music_58
• Track 10 : Vitus_58
• Track 11 : Orkz_65
• Track 12 : Hirko_54
• Track 13 : Skitty_65
• Track 14 : Pitbull_72
• Track 15 : Hum25_74
• Track 16 : BronnyJames_97, Shaboozey_97, Nibley_92
• Track 17 : Superphikiman_96, Squint_97, Courthouse_94, Gonephishing_91, Nekros_101, MiaZeal_99, Lucky2013_96, Porcelain_97, Hannaconda_90, Ariel_98, Omega_108
• Track 18 : LittleE_102, KashFlow_94
• Track 19 : Rearden_93

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

The start number called the most often in the published annotations is 9, it was called in 12 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ariel_98, BronnyJames_97, Courthouse_94, Gonephishing_91, Hannaconda_90, KashFlow_94, LittleE_102, Lucky2013_96, MiaZeal_99, Nekros_101, Nibley_92, Omega_108, Persistence_60, Porcelain_97, Rearden_93, Shaboozey_97, Squint_97, Superphikiman_96,

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

• JakeTheSnake_70,

Genes that do not have the "Most Annotated" start:
• ApoKipo_61, Auxilium_62, GoldDust_56, Gooberta_57, Hirko_54, Hum25_74, Kovu_58, Music_58, Orkz_65, Pitbull_72, Rizwana_42, Skitty_65, Vibaki_56, Vitus_58,

Summary by start number:

Start 9:
• Found in 19 of 33 (57.6%) of genes in pham
• Manual Annotations of this start: 12 of 24
• Called 94.7% of time when present
• Phage (with cluster) where this start called: Ariel_98 (J), BronnyJames_97 (J), Courthouse_94 (J), Gonephishing_91 (J), Hannaconda_90 (J), KashFlow_94 (J), LittleE_102 (J), Lucky2013_96 (J), MiaZeal_99 (J), Nekros_101 (J), Nibley_92 (J), Omega_108 (J), Persistence_60 (AY), Porcelain_97 (J), Rearden_93 (J), Shaboozey_97 (J), Squint_97 (J), Superphikiman_96 (J),

Start 12:
• Found in 6 of 33 (18.2%) of genes in pham
• Manual Annotations of this start: 5 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GoldDust_56 (FL), Gooberta_57 (FL), Hirko_54 (FL), Music_58 (FL), Vibaki_56 (FL), Vitus_58 (FL),

Start 13:
• Found in 1 of 33 (3.0%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rizwana_42 (AP1),

Start 14:
• Found in 3 of 33 (9.1%) of genes in pham
• Manual Annotations of this start: 3 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hum25_74 (FQ1), Pitbull_72 (FQ1), Skitty_65 (FQ1),

Start 15:
• Found in 2 of 33 (6.1%) of genes in pham
• Manual Annotations of this start: 2 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ApoKipo_61 (AL), Kovu_58 (AL),

Start 16:
• Found in 2 of 33 (6.1%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Auxilium_62 (AY), Orkz_65 (FL),

Start 17:
• Found in 1 of 33 (3.0%) of genes in pham

• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JakeTheSnake_70 (AY),

Summary by clusters:

There are 6 clusters represented in this pham: J, AP1, AL, AY, FQ1, FL,

Info for manual annotations of cluster AL:
•Start number 15 was manually annotated 2 times for cluster AL.

Info for manual annotations of cluster AP1:
•Start number 13 was manually annotated 1 time for cluster AP1.

Info for manual annotations of cluster AY:
•Start number 9 was manually annotated 1 time for cluster AY.
•Start number 16 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FL:
•Start number 12 was manually annotated 5 times for cluster FL.

Info for manual annotations of cluster FQ1:
•Start number 14 was manually annotated 3 times for cluster FQ1.

Info for manual annotations of cluster J:
•Start number 9 was manually annotated 11 times for cluster J.

Gene Information:

Gene: ApoKipo_61 Start: 33136, Stop: 33507, Start Num: 15
Candidate Starts for ApoKipo_61:
(Start: 15 @33136 has 2 MA's), (21, 33289), (26, 33385), (28, 33403),

Gene: Ariel_98 Start: 56193, Stop: 56570, Start Num: 9
Candidate Starts for Ariel_98:
(8, 56166), (Start: 9 @56193 has 12 MA's), (18, 56253), (22, 56409), (26, 56502),

Gene: Auxilium_62 Start: 32641, Stop: 32964, Start Num: 16
Candidate Starts for Auxilium_62:
(Start: 16 @32641 has 1 MA's),

Gene: BronnyJames_97 Start: 56672, Stop: 57043, Start Num: 9
Candidate Starts for BronnyJames_97:
(3, 56498), (Start: 9 @56672 has 12 MA's), (18, 56726), (22, 56882), (26, 56975),

Gene: Courthouse_94 Start: 55793, Stop: 56170, Start Num: 9
Candidate Starts for Courthouse_94:
(8, 55766), (Start: 9 @55793 has 12 MA's), (18, 55853), (22, 56009), (26, 56102),

Gene: GoldDust_56 Start: 40300, Stop: 40626, Start Num: 12
Candidate Starts for GoldDust_56:

(Start: 12 @40300 has 5 MA's),

Gene: Gonephishing_91 Start: 55351, Stop: 55728, Start Num: 9
Candidate Starts for Gonephishing_91:
(8, 55324), (Start: 9 @55351 has 12 MA's), (18, 55411), (22, 55567), (26, 55660),

Gene: Gooberta_57 Start: 40920, Stop: 41246, Start Num: 12
Candidate Starts for Gooberta_57:
(Start: 12 @40920 has 5 MA's),

Gene: Hannaconda_90 Start: 54744, Stop: 55121, Start Num: 9
Candidate Starts for Hannaconda_90:
(8, 54717), (Start: 9 @54744 has 12 MA's), (18, 54804), (22, 54960), (26, 55053),

Gene: Hirko_54 Start: 39851, Stop: 40168, Start Num: 12
Candidate Starts for Hirko_54:
(5, 39767), (Start: 12 @39851 has 5 MA's), (27, 40103),

Gene: Hum25_74 Start: 38750, Stop: 39133, Start Num: 14
Candidate Starts for Hum25_74:
(10, 38708), (Start: 14 @38750 has 3 MA's), (19, 38771), (28, 39011), (31, 39128),

Gene: JakeTheSnake_70 Start: 37242, Stop: 37538, Start Num: 17
Candidate Starts for JakeTheSnake_70:
(Start: 9 @37185 has 12 MA's), (17, 37242),

Gene: KashFlow_94 Start: 56308, Stop: 56685, Start Num: 9
Candidate Starts for KashFlow_94:
(1, 56110), (2, 56122), (Start: 9 @56308 has 12 MA's), (18, 56368), (22, 56524), (26, 56617),

Gene: Kovu_58 Start: 33436, Stop: 33810, Start Num: 15
Candidate Starts for Kovu_58:
(Start: 15 @33436 has 2 MA's), (24, 33628), (26, 33685), (28, 33703), (29, 33745), (30, 33793),

Gene: LittleE_102 Start: 59886, Stop: 60263, Start Num: 9
Candidate Starts for LittleE_102:
(1, 59688), (2, 59700), (Start: 9 @59886 has 12 MA's), (18, 59946), (22, 60102), (26, 60195),

Gene: Lucky2013_96 Start: 56209, Stop: 56586, Start Num: 9
Candidate Starts for Lucky2013_96:
(8, 56182), (Start: 9 @56209 has 12 MA's), (18, 56269), (22, 56425), (26, 56518),

Gene: MiaZeal_99 Start: 56865, Stop: 57242, Start Num: 9
Candidate Starts for MiaZeal_99:
(8, 56838), (Start: 9 @56865 has 12 MA's), (18, 56925), (22, 57081), (26, 57174),

Gene: Music_58 Start: 40438, Stop: 40770, Start Num: 12
Candidate Starts for Music_58:
(6, 40357), (7, 40363), (Start: 12 @40438 has 5 MA's),

Gene: Nekros_101 Start: 59821, Stop: 60198, Start Num: 9
Candidate Starts for Nekros_101:
(8, 59794), (Start: 9 @59821 has 12 MA's), (18, 59881), (22, 60037), (26, 60130),

Gene: Nibley_92 Start: 56249, Stop: 56620, Start Num: 9
Candidate Starts for Nibley_92:
(3, 56075), (Start: 9 @56249 has 12 MA's), (18, 56303), (22, 56459), (26, 56552),

Gene: Omega_108 Start: 61662, Stop: 62039, Start Num: 9
Candidate Starts for Omega_108:
(8, 61635), (Start: 9 @61662 has 12 MA's), (18, 61722), (22, 61878), (26, 61971),

Gene: Orkz_65 Start: 39084, Stop: 39407, Start Num: 16
Candidate Starts for Orkz_65:
(11, 39054), (Start: 16 @39084 has 1 MA's), (20, 39189), (25, 39306),

Gene: Persistence_60 Start: 33882, Stop: 34235, Start Num: 9
Candidate Starts for Persistence_60:
(4, 33732), (Start: 9 @33882 has 12 MA's),

Gene: Pitbull_72 Start: 38132, Stop: 38515, Start Num: 14
Candidate Starts for Pitbull_72:
(10, 38090), (Start: 14 @38132 has 3 MA's), (19, 38153), (28, 38393), (31, 38510),

Gene: Porcelain_97 Start: 56865, Stop: 57242, Start Num: 9
Candidate Starts for Porcelain_97:
(8, 56838), (Start: 9 @56865 has 12 MA's), (18, 56925), (22, 57081), (26, 57174),

Gene: Rearden_93 Start: 57048, Stop: 57419, Start Num: 9
Candidate Starts for Rearden_93:
(Start: 9 @57048 has 12 MA's), (18, 57102), (22, 57258), (26, 57351),

Gene: Rizwana_42 Start: 37831, Stop: 37511, Start Num: 13
Candidate Starts for Rizwana_42:
(Start: 13 @37831 has 1 MA's), (19, 37807), (26, 37585),

Gene: Shaboozey_97 Start: 56693, Stop: 57064, Start Num: 9
Candidate Starts for Shaboozey_97:
(3, 56519), (Start: 9 @56693 has 12 MA's), (18, 56747), (22, 56903), (26, 56996),

Gene: Skitty_65 Start: 36167, Stop: 36550, Start Num: 14
Candidate Starts for Skitty_65:
(Start: 14 @36167 has 3 MA's), (19, 36188), (28, 36428), (31, 36545),

Gene: Squint_97 Start: 56984, Stop: 57361, Start Num: 9
Candidate Starts for Squint_97:
(8, 56957), (Start: 9 @56984 has 12 MA's), (18, 57044), (22, 57200), (26, 57293),

Gene: Superphikiman_96 Start: 56075, Stop: 56452, Start Num: 9
Candidate Starts for Superphikiman_96:
(8, 56048), (Start: 9 @56075 has 12 MA's), (18, 56135), (22, 56291), (26, 56384),

Gene: Vibaki_56 Start: 39869, Stop: 40195, Start Num: 12
Candidate Starts for Vibaki_56:
(6, 39788), (7, 39794), (Start: 12 @39869 has 5 MA's),

Gene: Vitus_58 Start: 39517, Stop: 39864, Start Num: 12
Candidate Starts for Vitus_58:
(Start: 12 @39517 has 5 MA's), (23, 39706),