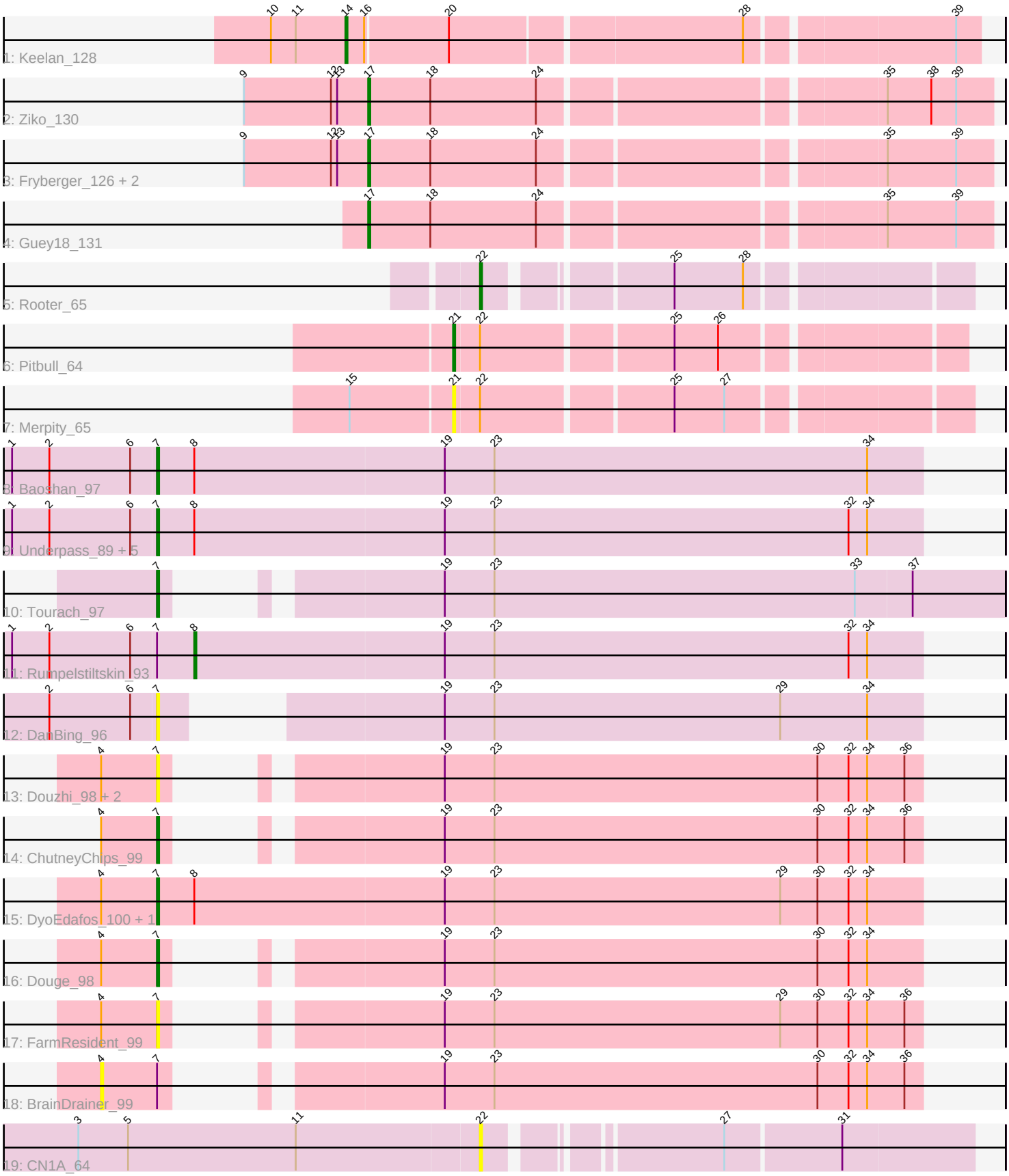
Pham 347914


1: Keelan_128
2: Ziko_130
3: Fryberger_126 + 2
4: Guey18_131
5: Rooter_65
6: Pitbull_64
7: Merpity_65
8: Baoshan_97
9: Underpass_89 + 5
10: Tourach_97
11: Rumpelstiltskin_93
12: DanBing_96
13: Douzhi_98 + 2
14: ChutneyChips_99
15: DyoEdafos_100 + 1
16: Douge_98
17: FarmResident_99
18: BrainDrainer_99
19: CN1A_64

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 347914 Report

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

Pham number 347914 has 29 members, 9 are drafts.

Phages represented in each track:
• Track 1 : Keelan_128
• Track 2 : Ziko_130
• Track 3 : Fryberger_126, Volt_131, Ronaldo_128
• Track 4 : Guey18_131
• Track 5 : Rooter_65
• Track 6 : Pitbull_64
• Track 7 : Merpity_65
• Track 8 : Baoshan_97
• Track 9 : Underpass_89, ChengKai98_96, Nicholasp3_97, Gardann_97, Finemlucis_98, Kahlid_96
• Track 10 : Tourach_97
• Track 11 : Rumpelstiltskin_93
• Track 12 : DanBing_96
• Track 13 : Douzhi_98, Quby_98, PYPDinur_98
• Track 14 : ChutneyChips_99
• Track 15 : DyoEdafos_100, Kropertea_94
• Track 16 : Douge_98
• Track 17 : FarmResident_99
• Track 18 : BrainDrainer_99
• Track 19 : CN1A_64

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

The start number called the most often in the published annotations is 7, it was called in 11 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Baoshan_97, ChengKai98_96, ChutneyChips_99, DanBing_96, Douge_98, Douzhi_98, DyoEdafos_100, FarmResident_99, Finemlucis_98, Gardann_97, Kahlid_96, Kropertea_94, Nicholasp3_97, PYPDinur_98, Quby_98, Tourach_97, Underpass_89,

Genes that have the "Most Annotated" start but do not call it:
• BrainDrainer_99, Rumpelstiltskin_93,

Genes that do not have the "Most Annotated" start:
• CN1A_64, Fryberger_126, Guey18_131, Keelan_128, Merpity_65, Pitbull_64, Ronaldo_128, Rooter_65, Volt_131, Ziko_130,

Summary by start number:

Start 4:
• Found in 9 of 29 (31.0%) of genes in pham
• No Manual Annotations of this start.
• Called 11.1% of time when present
• Phage (with cluster) where this start called: BrainDrainer_99 (L4),

Start 7:
• Found in 19 of 29 (65.5%) of genes in pham
• Manual Annotations of this start: 11 of 20
• Called 89.5% of time when present
• Phage (with cluster) where this start called: Baoshan_97 (L2), ChengKai98_96 (L2), ChutneyChips_99 (L4), DanBing_96 (L2), Douge_98 (L4), Douzhi_98 (L4), DyoEdafos_100 (L4), FarmResident_99 (L4), Finemlucis_98 (L2), Gardann_97 (L2), Kahlid_96 (L2), Kropertea_94 (L4), Nicholasp3_97 (L2), PYPDinur_98 (L4), Quby_98 (L4), Tourach_97 (L2), Underpass_89 (L2),

Start 8:
• Found in 10 of 29 (34.5%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Rumpelstiltskin_93 (L2),

Start 14:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Keelan_128 (DP),

Start 17:
• Found in 5 of 29 (17.2%) of genes in pham
• Manual Annotations of this start: 5 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fryberger_126 (DP), Guey18_131 (DP), Ronaldo_128 (DP), Volt_131 (DP), Ziko_130 (DP),

Start 21:
• Found in 2 of 29 (6.9%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Merpity_65 (FQ1), Pitbull_64 (FQ1),

Start 22:
• Found in 4 of 29 (13.8%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 50.0% of time when present
• Phage (with cluster) where this start called: CN1A_64 (singleton), Rooter_65 (FB),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, L4, FB, L2, FQ1, DP,

Info for manual annotations of cluster DP:
•Start number 14 was manually annotated 1 time for cluster DP.
•Start number 17 was manually annotated 5 times for cluster DP.

Info for manual annotations of cluster FB:
•Start number 22 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FQ1:
•Start number 21 was manually annotated 1 time for cluster FQ1.

Info for manual annotations of cluster L2:
•Start number 7 was manually annotated 7 times for cluster L2.
•Start number 8 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L4:
•Start number 7 was manually annotated 4 times for cluster L4.

Gene Information:

Gene: Baoshan_97 Start: 60451, Stop: 60819, Start Num: 7
Candidate Starts for Baoshan_97:
(1, 60382), (2, 60400), (6, 60439), (Start: 7 @60451 has 11 MA's), (Start: 8 @60469 has 1 MA's), (19, 60589), (23, 60613), (34, 60793),

Gene: BrainDrainer_99 Start: 60245, Stop: 60586, Start Num: 4
Candidate Starts for BrainDrainer_99:
(4, 60245), (Start: 7 @60272 has 11 MA's), (19, 60356), (23, 60380), (30, 60536), (32, 60551), (34, 60560), (36, 60578),

Gene: CN1A_64 Start: 51194, Stop: 50979, Start Num: 22
Candidate Starts for CN1A_64:
(3, 51386), (5, 51362), (11, 51281), (Start: 22 @51194 has 1 MA's), (27, 51095), (31, 51041),

Gene: ChengKai98_96 Start: 60035, Stop: 60403, Start Num: 7
Candidate Starts for ChengKai98_96:
(1, 59966), (2, 59984), (6, 60023), (Start: 7 @60035 has 11 MA's), (Start: 8 @60053 has 1 MA's), (19, 60173), (23, 60197), (32, 60368), (34, 60377),

Gene: ChutneyChips_99 Start: 60304, Stop: 60618, Start Num: 7
Candidate Starts for ChutneyChips_99:
(4, 60277), (Start: 7 @60304 has 11 MA's), (19, 60388), (23, 60412), (30, 60568), (32, 60583), (34, 60592), (36, 60610),

Gene: DanBing_96 Start: 60191, Stop: 60511, Start Num: 7
Candidate Starts for DanBing_96:

(2, 60140), (6, 60179), (Start: 7 @60191 has 11 MA's), (19, 60281), (23, 60305), (29, 60443), (34, 60485),

Gene: Douge_98 Start: 59692, Stop: 60006, Start Num: 7
Candidate Starts for Douge_98:
(4, 59665), (Start: 7 @59692 has 11 MA's), (19, 59776), (23, 59800), (30, 59956), (32, 59971), (34, 59980),

Gene: Douzhi_98 Start: 59961, Stop: 60275, Start Num: 7
Candidate Starts for Douzhi_98:
(4, 59934), (Start: 7 @59961 has 11 MA's), (19, 60045), (23, 60069), (30, 60225), (32, 60240), (34, 60249), (36, 60267),

Gene: DyoEdafos_100 Start: 60281, Stop: 60649, Start Num: 7
Candidate Starts for DyoEdafos_100:
(4, 60254), (Start: 7 @60281 has 11 MA's), (Start: 8 @60299 has 1 MA's), (19, 60419), (23, 60443), (29, 60581), (30, 60599), (32, 60614), (34, 60623),

Gene: FarmResident_99 Start: 59848, Stop: 60162, Start Num: 7
Candidate Starts for FarmResident_99:
(4, 59821), (Start: 7 @59848 has 11 MA's), (19, 59932), (23, 59956), (29, 60094), (30, 60112), (32, 60127), (34, 60136), (36, 60154),

Gene: Finemlucis_98 Start: 61312, Stop: 61680, Start Num: 7
Candidate Starts for Finemlucis_98:
(1, 61243), (2, 61261), (6, 61300), (Start: 7 @61312 has 11 MA's), (Start: 8 @61330 has 1 MA's), (19, 61450), (23, 61474), (32, 61645), (34, 61654),

Gene: Fryberger_126 Start: 61263, Stop: 61547, Start Num: 17
Candidate Starts for Fryberger_126:
(9, 61203), (12, 61245), (13, 61248), (Start: 17 @61263 has 5 MA's), (18, 61293), (24, 61344), (35, 61497), (39, 61530),

Gene: Gardann_97 Start: 60045, Stop: 60413, Start Num: 7
Candidate Starts for Gardann_97:
(1, 59976), (2, 59994), (6, 60033), (Start: 7 @60045 has 11 MA's), (Start: 8 @60063 has 1 MA's), (19, 60183), (23, 60207), (32, 60378), (34, 60387),

Gene: Guey18_131 Start: 62476, Stop: 62760, Start Num: 17
Candidate Starts for Guey18_131:
(Start: 17 @62476 has 5 MA's), (18, 62506), (24, 62557), (35, 62710), (39, 62743),

Gene: Kahlid_96 Start: 59963, Stop: 60331, Start Num: 7
Candidate Starts for Kahlid_96:
(1, 59894), (2, 59912), (6, 59951), (Start: 7 @59963 has 11 MA's), (Start: 8 @59981 has 1 MA's), (19, 60101), (23, 60125), (32, 60296), (34, 60305),

Gene: Keelan_128 Start: 62084, Stop: 62371, Start Num: 14
Candidate Starts for Keelan_128:
(10, 62048), (11, 62060), (Start: 14 @62084 has 1 MA's), (16, 62093), (20, 62132), (28, 62267), (39, 62360),

Gene: Kropertea_94 Start: 59566, Stop: 59934, Start Num: 7

Candidate Starts for Kropertea_94:
(4, 59539), (Start: 7 @59566 has 11 MA's), (Start: 8 @59584 has 1 MA's), (19, 59704), (23, 59728), (29, 59866), (30, 59884), (32, 59899), (34, 59908),

Gene: Merpity_65 Start: 36638, Stop: 36868, Start Num: 21
Candidate Starts for Merpity_65:
(15, 36590), (Start: 21 @36638 has 1 MA's), (Start: 22 @36650 has 1 MA's), (25, 36737), (27, 36761),

Gene: Nicholasp3_97 Start: 60045, Stop: 60413, Start Num: 7
Candidate Starts for Nicholasp3_97:
(1, 59976), (2, 59994), (6, 60033), (Start: 7 @60045 has 11 MA's), (Start: 8 @60063 has 1 MA's), (19, 60183), (23, 60207), (32, 60378), (34, 60387),

Gene: PYPDinur_98 Start: 60524, Stop: 60838, Start Num: 7
Candidate Starts for PYPDinur_98:
(4, 60497), (Start: 7 @60524 has 11 MA's), (19, 60608), (23, 60632), (30, 60788), (32, 60803), (34, 60812), (36, 60830),

Gene: Pitbull_64 Start: 35734, Stop: 35961, Start Num: 21
Candidate Starts for Pitbull_64:
(Start: 21 @35734 has 1 MA's), (Start: 22 @35746 has 1 MA's), (25, 35833), (26, 35854),

Gene: Quby_98 Start: 59936, Stop: 60250, Start Num: 7
Candidate Starts for Quby_98:
(4, 59909), (Start: 7 @59936 has 11 MA's), (19, 60020), (23, 60044), (30, 60200), (32, 60215), (34, 60224), (36, 60242),

Gene: Ronaldo_128 Start: 62168, Stop: 62452, Start Num: 17
Candidate Starts for Ronaldo_128:
(9, 62108), (12, 62150), (13, 62153), (Start: 17 @62168 has 5 MA's), (18, 62198), (24, 62249), (35, 62402), (39, 62435),

Gene: Rooter_65 Start: 35788, Stop: 35997, Start Num: 22
Candidate Starts for Rooter_65:
(Start: 22 @35788 has 1 MA's), (25, 35866), (28, 35899),

Gene: Rumpelstiltskin_93 Start: 59856, Stop: 60206, Start Num: 8
Candidate Starts for Rumpelstiltskin_93:
(1, 59769), (2, 59787), (6, 59826), (Start: 7 @59838 has 11 MA's), (Start: 8 @59856 has 1 MA's), (19, 59976), (23, 60000), (32, 60171), (34, 60180),

Gene: Tourach_97 Start: 60937, Stop: 61290, Start Num: 7
Candidate Starts for Tourach_97:
(Start: 7 @60937 has 11 MA's), (19, 61021), (23, 61045), (33, 61219), (37, 61246),

Gene: Underpass_89 Start: 55081, Stop: 55449, Start Num: 7
Candidate Starts for Underpass_89:
(1, 55012), (2, 55030), (6, 55069), (Start: 7 @55081 has 11 MA's), (Start: 8 @55099 has 1 MA's), (19, 55219), (23, 55243), (32, 55414), (34, 55423),

Gene: Volt_131 Start: 62332, Stop: 62616, Start Num: 17
Candidate Starts for Volt_131:

(9, 62272), (12, 62314), (13, 62317), (Start: 17 @62332 has 5 MA's), (18, 62362), (24, 62413), (35, 62566), (39, 62599),

Gene: Ziko_130 Start: 62399, Stop: 62683, Start Num: 17
Candidate Starts for Ziko_130:
(9, 62339), (12, 62381), (13, 62384), (Start: 17 @62399 has 5 MA's), (18, 62429), (24, 62480), (35, 62633), (38, 62654), (39, 62666),