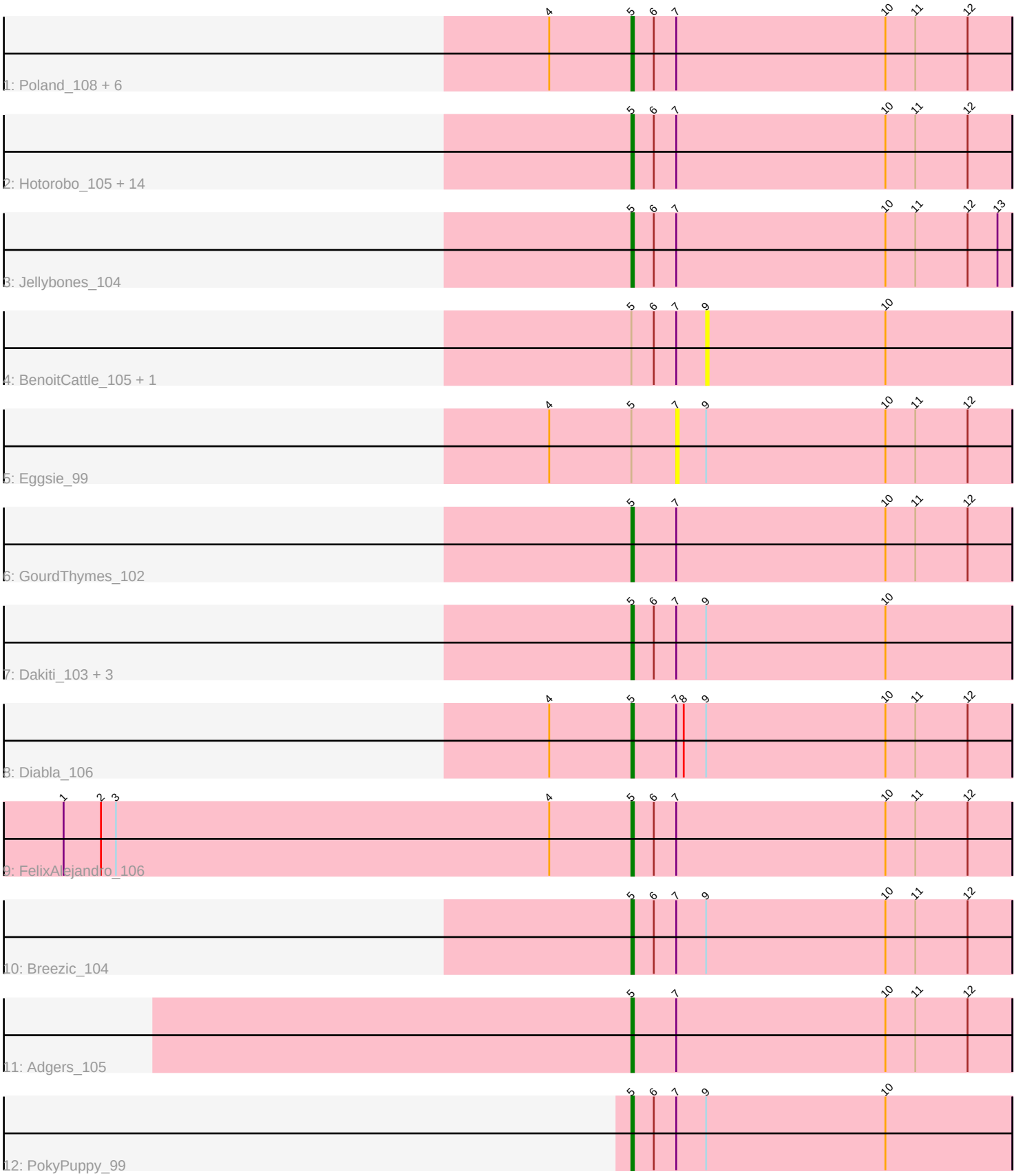
Pham 2850


1: Poland_108 + 6
2: Hotorobo_105 + 14
3: Jellybones_104
4: BenoitCattle_105 + 1
5: Eggsie_99
6: GourdThymes_102
7: Dakiti_103 + 3
8: Diabla_106
9: FelixAlejandro_106
10: Breezic_104
11: Adgers_105
12: PokyPuppy_99

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 2850 Report

This analysis was run 04/28/24 on database version 559.

Pham number 2850 has 36 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Poland_108, Butterball_104, SteveFrench_101, Boneham_105, RoyalG_102, Msay19_107, BirksAndSocks_106
• Track 2 : Hotorobo_105, Lizzo_102, Gorko_101, Barbochs_102, Exiguo_100, CathyBurgh_101, Ekhein_106, Sam12_101, Monty_102, RemRem_106, John316_106, Squibbles_103, Sombrero_104, Flakey_104, Beaver_106
• Track 3 : Jellybones_104
• Track 4 : BenoitCattle_105, BigShaq_103
• Track 5 : Eggsie_99
• Track 6 : GourdThymes_102
• Track 7 : Dakiti_103, Linetti_103, Chelms_102, PierreThree_102
• Track 8 : Diabla_106
• Track 9 : FelixAlejandro_106
• Track 10 : Breezic_104
• Track 11 : Adgers_105
• Track 12 : PokyPuppy_99

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

The start number called the most often in the published annotations is 5, it was called in 29 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adgers_105, Barbochs_102, Beaver_106, BirksAndSocks_106, Boneham_105, Breezic_104, Butterball_104, CathyBurgh_101, Chelms_102, Dakiti_103, Diabla_106, Ekhein_106, Exiguo_100, FelixAlejandro_106, Flakey_104, Gorko_101, GourdThymes_102, Hotorobo_105, Jellybones_104, John316_106, Linetti_103, Lizzo_102, Monty_102, Msay19_107, PierreThree_102, PokyPuppy_99, Poland_108, RemRem_106, RoyalG_102, Sam12_101, Sombrero_104, Squibbles_103, SteveFrench_101,

Genes that have the "Most Annotated" start but do not call it:
• BenoitCattle_105, BigShaq_103, Eggsie_99,

Genes that do not have the "Most Annotated" start:

•

Summary by start number:

Start 5:
• Found in 36 of 36 (100.0%) of genes in pham
• Manual Annotations of this start: 29 of 29
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Adgers_105 (CS2), Barbochs_102 (CS2), Beaver_106 (CS2), BirksAndSocks_106 (CS2), Boneham_105 (CS2), Breezic_104 (CS2), Butterball_104 (CS2), CathyBurgh_101 (CS2), Chelms_102 (CS2), Dakiti_103 (CS2), Diabla_106 (CS2), Ekhein_106 (CS2), Exiguo_100 (CS2), FelixAlejandro_106 (CS2), Flakey_104 (CS2), Gorko_101 (CS2), GourdThymes_102 (CS2), Hotorobo_105 (CS2), Jellybones_104 (CS2), John316_106 (CS2), Linetti_103 (CS2), Lizzo_102 (CS2), Monty_102 (CS2), Msay19_107 (CS2), PierreThree_102 (CS2), PokyPuppy_99 (CS2), Poland_108 (CS2), RemRem_106 (CS2), RoyalG_102 (CS2), Sam12_101 (CS2), Sombrero_104 (CS2), Squibbles_103 (CS2), SteveFrench_101 (CS2),

Start 7:
• Found in 36 of 36 (100.0%) of genes in pham
• No Manual Annotations of this start.
• Called 2.8% of time when present
• Phage (with cluster) where this start called: Eggsie_99 (CS2),

Start 9:
• Found in 10 of 36 (27.8%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: BenoitCattle_105 (CS2), BigShaq_103 (CS2),

Summary by clusters:

There is one cluster represented in this pham: CS2

Info for manual annotations of cluster CS2:
•Start number 5 was manually annotated 29 times for cluster CS2.

Gene Information:

Gene: Adgers_105 Start: 73051, Stop: 72899, Start Num: 5
Candidate Starts for Adgers_105:
(Start: 5 @73051 has 29 MA's), (7, 73033), (10, 72949), (11, 72937), (12, 72916),

Gene: Barbochs_102 Start: 72245, Stop: 72093, Start Num: 5
Candidate Starts for Barbochs_102:
(Start: 5 @72245 has 29 MA's), (6, 72236), (7, 72227), (10, 72143), (11, 72131), (12, 72110),

Gene: Beaver_106 Start: 74393, Stop: 74241, Start Num: 5
Candidate Starts for Beaver_106:

(Start: 5 @74393 has 29 MA's), (6, 74384), (7, 74375), (10, 74291), (11, 74279), (12, 74258),

Gene: BenoitCattle_105 Start: 73579, Stop: 73457, Start Num: 9
Candidate Starts for BenoitCattle_105:
(Start: 5 @73609 has 29 MA's), (6, 73600), (7, 73591), (9, 73579), (10, 73507),

Gene: BigShaq_103 Start: 73374, Stop: 73252, Start Num: 9
Candidate Starts for BigShaq_103:
(Start: 5 @73404 has 29 MA's), (6, 73395), (7, 73386), (9, 73374), (10, 73302),

Gene: BirksAndSocks_106 Start: 74006, Stop: 73854, Start Num: 5
Candidate Starts for BirksAndSocks_106:
(4, 74039), (Start: 5 @74006 has 29 MA's), (6, 73997), (7, 73988), (10, 73904), (11, 73892), (12, 73871),

Gene: Boneham_105 Start: 73931, Stop: 73779, Start Num: 5
Candidate Starts for Boneham_105:
(4, 73964), (Start: 5 @73931 has 29 MA's), (6, 73922), (7, 73913), (10, 73829), (11, 73817), (12, 73796),

Gene: Breezic_104 Start: 72943, Stop: 72791, Start Num: 5
Candidate Starts for Breezic_104:
(Start: 5 @72943 has 29 MA's), (6, 72934), (7, 72925), (9, 72913), (10, 72841), (11, 72829), (12, 72808),

Gene: Butterball_104 Start: 73936, Stop: 73784, Start Num: 5
Candidate Starts for Butterball_104:
(4, 73969), (Start: 5 @73936 has 29 MA's), (6, 73927), (7, 73918), (10, 73834), (11, 73822), (12, 73801),

Gene: CathyBurgh_101 Start: 72778, Stop: 72626, Start Num: 5
Candidate Starts for CathyBurgh_101:
(Start: 5 @72778 has 29 MA's), (6, 72769), (7, 72760), (10, 72676), (11, 72664), (12, 72643),

Gene: Chelms_102 Start: 73347, Stop: 73195, Start Num: 5
Candidate Starts for Chelms_102:
(Start: 5 @73347 has 29 MA's), (6, 73338), (7, 73329), (9, 73317), (10, 73245),

Gene: Dakiti_103 Start: 74290, Stop: 74138, Start Num: 5
Candidate Starts for Dakiti_103:
(Start: 5 @74290 has 29 MA's), (6, 74281), (7, 74272), (9, 74260), (10, 74188),

Gene: Diabla_106 Start: 73653, Stop: 73501, Start Num: 5
Candidate Starts for Diabla_106:
(4, 73686), (Start: 5 @73653 has 29 MA's), (7, 73635), (8, 73632), (9, 73623), (10, 73551), (11, 73539), (12, 73518),

Gene: Eggsie_99 Start: 71191, Stop: 71057, Start Num: 7
Candidate Starts for Eggsie_99:
(4, 71242), (Start: 5 @71209 has 29 MA's), (7, 71191), (9, 71179), (10, 71107), (11, 71095), (12, 71074),

Gene: Ekhein_106 Start: 72996, Stop: 72844, Start Num: 5

Candidate Starts for Ekhein_106:
(Start: 5 @72996 has 29 MA's), (6, 72987), (7, 72978), (10, 72894), (11, 72882), (12, 72861),

Gene: Exiguo_100 Start: 72209, Stop: 72057, Start Num: 5
Candidate Starts for Exiguo_100:
(Start: 5 @72209 has 29 MA's), (6, 72200), (7, 72191), (10, 72107), (11, 72095), (12, 72074),

Gene: FelixAlejandro_106 Start: 74449, Stop: 74297, Start Num: 5
Candidate Starts for FelixAlejandro_106:
(1, 74677), (2, 74662), (3, 74656), (4, 74482), (Start: 5 @74449 has 29 MA's), (6, 74440), (7, 74431), (10, 74347), (11, 74335), (12, 74314),

Gene: Flakey_104 Start: 73887, Stop: 73735, Start Num: 5
Candidate Starts for Flakey_104:
(Start: 5 @73887 has 29 MA's), (6, 73878), (7, 73869), (10, 73785), (11, 73773), (12, 73752),

Gene: Gorko_101 Start: 72156, Stop: 72004, Start Num: 5
Candidate Starts for Gorko_101:
(Start: 5 @72156 has 29 MA's), (6, 72147), (7, 72138), (10, 72054), (11, 72042), (12, 72021),

Gene: GourdThymes_102 Start: 72805, Stop: 72653, Start Num: 5
Candidate Starts for GourdThymes_102:
(Start: 5 @72805 has 29 MA's), (7, 72787), (10, 72703), (11, 72691), (12, 72670),

Gene: Hotorobo_105 Start: 73847, Stop: 73695, Start Num: 5
Candidate Starts for Hotorobo_105:
(Start: 5 @73847 has 29 MA's), (6, 73838), (7, 73829), (10, 73745), (11, 73733), (12, 73712),

Gene: Jellybones_104 Start: 74137, Stop: 73985, Start Num: 5
Candidate Starts for Jellybones_104:
(Start: 5 @74137 has 29 MA's), (6, 74128), (7, 74119), (10, 74035), (11, 74023), (12, 74002), (13, 73990),

Gene: John316_106 Start: 74114, Stop: 73962, Start Num: 5
Candidate Starts for John316_106:
(Start: 5 @74114 has 29 MA's), (6, 74105), (7, 74096), (10, 74012), (11, 74000), (12, 73979),

Gene: Linetti_103 Start: 74567, Stop: 74415, Start Num: 5
Candidate Starts for Linetti_103:
(Start: 5 @74567 has 29 MA's), (6, 74558), (7, 74549), (9, 74537), (10, 74465),

Gene: Lizzo_102 Start: 72778, Stop: 72626, Start Num: 5
Candidate Starts for Lizzo_102:
(Start: 5 @72778 has 29 MA's), (6, 72769), (7, 72760), (10, 72676), (11, 72664), (12, 72643),

Gene: Monty_102 Start: 72680, Stop: 72528, Start Num: 5
Candidate Starts for Monty_102:
(Start: 5 @72680 has 29 MA's), (6, 72671), (7, 72662), (10, 72578), (11, 72566), (12, 72545),

Gene: Msay19_107 Start: 74753, Stop: 74601, Start Num: 5
Candidate Starts for Msay19_107:
(4, 74786), (Start: 5 @74753 has 29 MA's), (6, 74744), (7, 74735), (10, 74651), (11, 74639), (12, 74618),

Gene: PierreThree_102 Start: 73921, Stop: 73769, Start Num: 5
Candidate Starts for PierreThree_102:
(Start: 5 @73921 has 29 MA's), (6, 73912), (7, 73903), (9, 73891), (10, 73819),

Gene: PokyPuppy_99 Start: 72967, Stop: 72815, Start Num: 5
Candidate Starts for PokyPuppy_99:
(Start: 5 @72967 has 29 MA's), (6, 72958), (7, 72949), (9, 72937), (10, 72865),

Gene: Poland_108 Start: 74714, Stop: 74562, Start Num: 5
Candidate Starts for Poland_108:
(4, 74747), (Start: 5 @74714 has 29 MA's), (6, 74705), (7, 74696), (10, 74612), (11, 74600), (12, 74579),

Gene: RemRem_106 Start: 72964, Stop: 72812, Start Num: 5
Candidate Starts for RemRem_106:
(Start: 5 @72964 has 29 MA's), (6, 72955), (7, 72946), (10, 72862), (11, 72850), (12, 72829),

Gene: RoyalG_102 Start: 72679, Stop: 72527, Start Num: 5
Candidate Starts for RoyalG_102:
(4, 72712), (Start: 5 @72679 has 29 MA's), (6, 72670), (7, 72661), (10, 72577), (11, 72565), (12, 72544),

Gene: Sam12_101 Start: 72206, Stop: 72054, Start Num: 5
Candidate Starts for Sam12_101:
(Start: 5 @72206 has 29 MA's), (6, 72197), (7, 72188), (10, 72104), (11, 72092), (12, 72071),

Gene: Sombrero_104 Start: 73017, Stop: 72865, Start Num: 5
Candidate Starts for Sombrero_104:
(Start: 5 @73017 has 29 MA's), (6, 73008), (7, 72999), (10, 72915), (11, 72903), (12, 72882),

Gene: Squibbles_103 Start: 73490, Stop: 73338, Start Num: 5
Candidate Starts for Squibbles_103:
(Start: 5 @73490 has 29 MA's), (6, 73481), (7, 73472), (10, 73388), (11, 73376), (12, 73355),

Gene: SteveFrench_101 Start: 72918, Stop: 72766, Start Num: 5
Candidate Starts for SteveFrench_101:
(4, 72951), (Start: 5 @72918 has 29 MA's), (6, 72909), (7, 72900), (10, 72816), (11, 72804), (12, 72783),