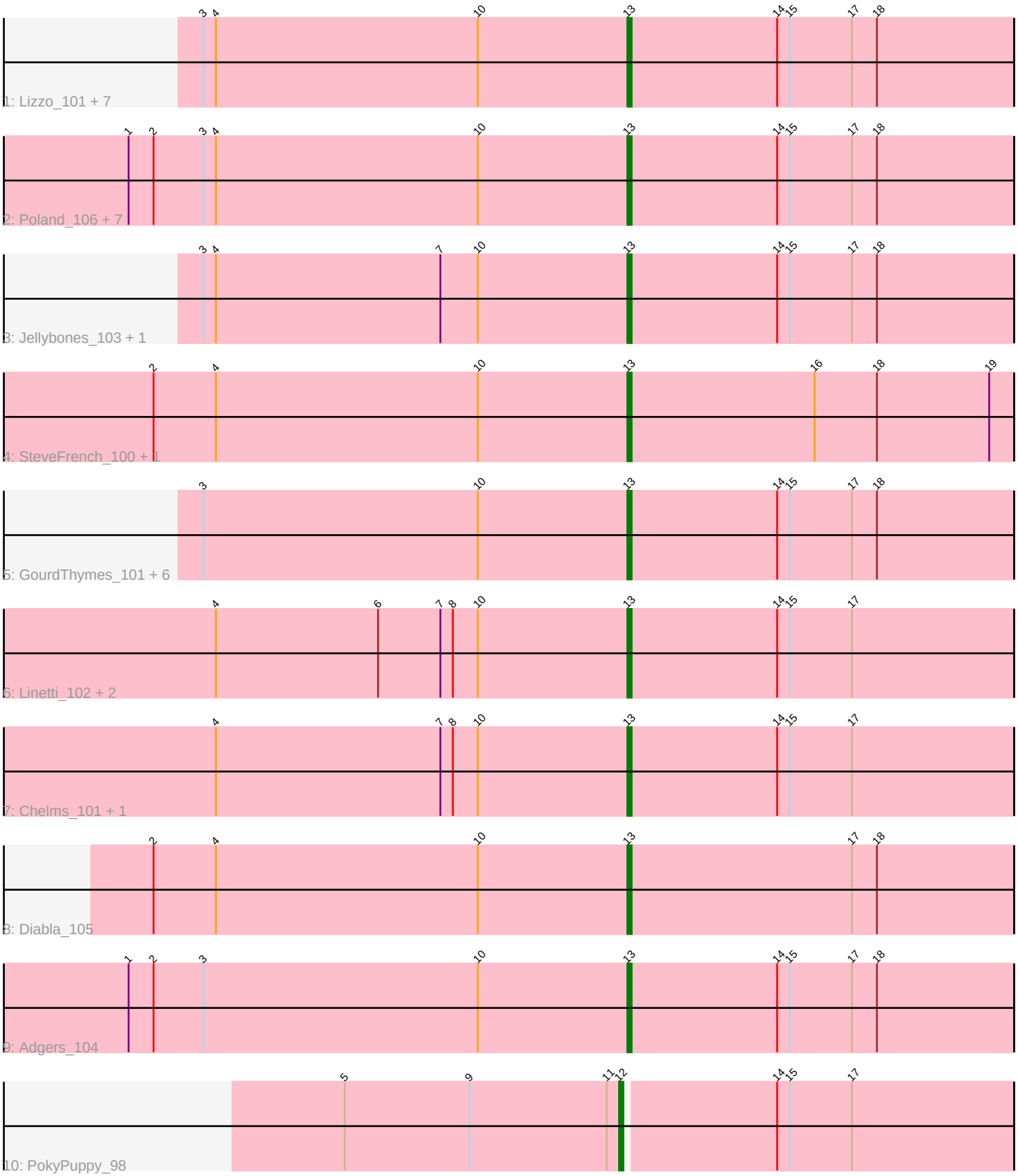
Pham 345960


1: Lizzo_101 + 7
2: Poland_106 + 7
3: Jellybones_103 + 1
4: SteveFrench_100 + 1
5: GourdThymes_101 + 6
6: Linetti_102 + 2
7: Chelms_101 + 1
8: Diabla_105
9: Adgers_104
10: PokyPuppy_98

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 345960 Report

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

Pham number 345960 has 35 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Lizzo_101, Barbochs_99, RemRem_105, CathyBurgh_101, Ekhein_105, Worcestershire_101, John316_105, Squibbles_102
• Track 2 : Poland_106, FelixAlejandro_105, CinnamonToast_106, Butterball_103, Msay19_106, Sombrero_103, BirksAndSocks_105, BillyBobJr_106
• Track 3 : Jellybones_103, Beaver_105
• Track 4 : SteveFrench_100, RoyalG_101
• Track 5 : GourdThymes_101, Sam12_100, Hotorobo_104, Breezic_103, Gorko_100, Kelzog_104, Flakey_103
• Track 6 : Linetti_102, BenoitCattle_103, BigShaq_103
• Track 7 : Chelms_101, PierreThree_101
• Track 8 : Diabla_105
• Track 9 : Adgers_104
• Track 10 : PokyPuppy_98

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

The start number called the most often in the published annotations is 13, it was called in 31 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adgers_104, Barbochs_99, Beaver_105, BenoitCattle_103, BigShaq_103, BillyBobJr_106, BirksAndSocks_105, Breezic_103, Butterball_103, CathyBurgh_101, Chelms_101, CinnamonToast_106, Diabla_105, Ekhein_105, FelixAlejandro_105, Flakey_103, Gorko_100, GourdThymes_101, Hotorobo_104, Jellybones_103, John316_105, Kelzog_104, Linetti_102, Lizzo_101, Msay19_106, PierreThree_101, Poland_106, RemRem_105, RoyalG_101, Sam12_100, Sombrero_103, Squibbles_102, SteveFrench_100, Worcestershire_101,

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

Genes that do not have the "Most Annotated" start:
• PokyPuppy_98,

Summary by start number:

Start 12:
• Found in 1 of 35 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PokyPuppy_98 (CS2),

Start 13:
• Found in 34 of 35 (97.1%) of genes in pham
• Manual Annotations of this start: 31 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adgers_104 (CS2), Barbochs_99 (CS2), Beaver_105 (CS2), BenoitCattle_103 (CS2), BigShaq_103 (CS2), BillyBobJr_106 (CS2), BirksAndSocks_105 (CS2), Breezic_103 (CS2), Butterball_103 (CS2), CathyBurgh_101 (CS2), Chelms_101 (CS2), CinnamonToast_106 (CS2), Diabla_105 (CS2), Ekhein_105 (CS2), FelixAlejandro_105 (CS2), Flakey_103 (CS2), Gorko_100 (CS2), GourdThymes_101 (CS2), Hotorobo_104 (CS2), Jellybones_103 (CS2), John316_105 (CS2), Kelzog_104 (CS2), Linetti_102 (CS2), Lizzo_101 (CS2), Msay19_106 (CS2), PierreThree_101 (CS2), Poland_106 (CS2), RemRem_105 (CS2), RoyalG_101 (CS2), Sam12_100 (CS2), Sombrero_103 (CS2), Squibbles_102 (CS2), SteveFrench_100 (CS2), Worcestershire_101 (CS2),

Summary by clusters:

There is one cluster represented in this pham: CS2

Info for manual annotations of cluster CS2:
•Start number 12 was manually annotated 1 time for cluster CS2.
•Start number 13 was manually annotated 31 times for cluster CS2.

Gene Information:

Gene: Adgers_104 Start: 72897, Stop: 72805, Start Num: 13
Candidate Starts for Adgers_104:
(1, 73017), (2, 73011), (3, 72999), (10, 72933), (Start: 13 @72897 has 31 MA's), (14, 72861), (15, 72858), (17, 72843), (18, 72837),

Gene: Barbochs_99 Start: 72091, Stop: 71999, Start Num: 13
Candidate Starts for Barbochs_99:
(3, 72193), (4, 72190), (10, 72127), (Start: 13 @72091 has 31 MA's), (14, 72055), (15, 72052), (17, 72037), (18, 72031),

Gene: Beaver_105 Start: 74239, Stop: 74147, Start Num: 13
Candidate Starts for Beaver_105:
(3, 74341), (4, 74338), (7, 74284), (10, 74275), (Start: 13 @74239 has 31 MA's), (14, 74203), (15, 74200), (17, 74185), (18, 74179),

Gene: BenoitCattle_103 Start: 73455, Stop: 73363, Start Num: 13
Candidate Starts for BenoitCattle_103:

(4, 73554), (6, 73515), (7, 73500), (8, 73497), (10, 73491), (Start: 13 @73455 has 31 MA's), (14, 73419), (15, 73416), (17, 73401),

Gene: BigShaq_103 Start: 73250, Stop: 73158, Start Num: 13
Candidate Starts for BigShaq_103:
(4, 73349), (6, 73310), (7, 73295), (8, 73292), (10, 73286), (Start: 13 @73250 has 31 MA's), (14, 73214), (15, 73211), (17, 73196),

Gene: BillyBobJr_106 Start: 74342, Stop: 74250, Start Num: 13
Candidate Starts for BillyBobJr_106:
(1, 74462), (2, 74456), (3, 74444), (4, 74441), (10, 74378), (Start: 13 @74342 has 31 MA's), (14, 74306), (15, 74303), (17, 74288), (18, 74282),

Gene: BirksAndSocks_105 Start: 73852, Stop: 73760, Start Num: 13
Candidate Starts for BirksAndSocks_105:
(1, 73972), (2, 73966), (3, 73954), (4, 73951), (10, 73888), (Start: 13 @73852 has 31 MA's), (14, 73816), (15, 73813), (17, 73798), (18, 73792),

Gene: Breezic_103 Start: 72789, Stop: 72697, Start Num: 13
Candidate Starts for Breezic_103:
(3, 72891), (10, 72825), (Start: 13 @72789 has 31 MA's), (14, 72753), (15, 72750), (17, 72735), (18, 72729),

Gene: Butterball_103 Start: 73782, Stop: 73690, Start Num: 13
Candidate Starts for Butterball_103:
(1, 73902), (2, 73896), (3, 73884), (4, 73881), (10, 73818), (Start: 13 @73782 has 31 MA's), (14, 73746), (15, 73743), (17, 73728), (18, 73722),

Gene: CathyBurgh_101 Start: 72624, Stop: 72532, Start Num: 13
Candidate Starts for CathyBurgh_101:
(3, 72726), (4, 72723), (10, 72660), (Start: 13 @72624 has 31 MA's), (14, 72588), (15, 72585), (17, 72570), (18, 72564),

Gene: Chelms_101 Start: 73193, Stop: 73101, Start Num: 13
Candidate Starts for Chelms_101:
(4, 73292), (7, 73238), (8, 73235), (10, 73229), (Start: 13 @73193 has 31 MA's), (14, 73157), (15, 73154), (17, 73139),

Gene: CinnamonToast_106 Start: 74342, Stop: 74250, Start Num: 13
Candidate Starts for CinnamonToast_106:
(1, 74462), (2, 74456), (3, 74444), (4, 74441), (10, 74378), (Start: 13 @74342 has 31 MA's), (14, 74306), (15, 74303), (17, 74288), (18, 74282),

Gene: Diabla_105 Start: 73499, Stop: 73407, Start Num: 13
Candidate Starts for Diabla_105:
(2, 73613), (4, 73598), (10, 73535), (Start: 13 @73499 has 31 MA's), (17, 73445), (18, 73439),

Gene: Ekhein_105 Start: 72842, Stop: 72750, Start Num: 13
Candidate Starts for Ekhein_105:
(3, 72944), (4, 72941), (10, 72878), (Start: 13 @72842 has 31 MA's), (14, 72806), (15, 72803), (17, 72788), (18, 72782),

Gene: FelixAlejandro_105 Start: 74295, Stop: 74203, Start Num: 13

Candidate Starts for FelixAlejandro_105:
(1, 74415), (2, 74409), (3, 74397), (4, 74394), (10, 74331), (Start: 13 @74295 has 31 MA's), (14, 74259), (15, 74256), (17, 74241), (18, 74235),

Gene: Flakey_103 Start: 73733, Stop: 73641, Start Num: 13
Candidate Starts for Flakey_103:
(3, 73835), (10, 73769), (Start: 13 @73733 has 31 MA's), (14, 73697), (15, 73694), (17, 73679), (18, 73673),

Gene: Gorko_100 Start: 72002, Stop: 71910, Start Num: 13
Candidate Starts for Gorko_100:
(3, 72104), (10, 72038), (Start: 13 @72002 has 31 MA's), (14, 71966), (15, 71963), (17, 71948), (18, 71942),

Gene: GourdThymes_101 Start: 72651, Stop: 72559, Start Num: 13
Candidate Starts for GourdThymes_101:
(3, 72753), (10, 72687), (Start: 13 @72651 has 31 MA's), (14, 72615), (15, 72612), (17, 72597), (18, 72591),

Gene: Hotorobo_104 Start: 73693, Stop: 73601, Start Num: 13
Candidate Starts for Hotorobo_104:
(3, 73795), (10, 73729), (Start: 13 @73693 has 31 MA's), (14, 73657), (15, 73654), (17, 73639), (18, 73633),

Gene: Jellybones_103 Start: 73983, Stop: 73891, Start Num: 13
Candidate Starts for Jellybones_103:
(3, 74085), (4, 74082), (7, 74028), (10, 74019), (Start: 13 @73983 has 31 MA's), (14, 73947), (15, 73944), (17, 73929), (18, 73923),

Gene: John316_105 Start: 73960, Stop: 73868, Start Num: 13
Candidate Starts for John316_105:
(3, 74062), (4, 74059), (10, 73996), (Start: 13 @73960 has 31 MA's), (14, 73924), (15, 73921), (17, 73906), (18, 73900),

Gene: Kelzog_104 Start: 73227, Stop: 73135, Start Num: 13
Candidate Starts for Kelzog_104:
(3, 73329), (10, 73263), (Start: 13 @73227 has 31 MA's), (14, 73191), (15, 73188), (17, 73173), (18, 73167),

Gene: Linetti_102 Start: 74413, Stop: 74321, Start Num: 13
Candidate Starts for Linetti_102:
(4, 74512), (6, 74473), (7, 74458), (8, 74455), (10, 74449), (Start: 13 @74413 has 31 MA's), (14, 74377), (15, 74374), (17, 74359),

Gene: Lizzo_101 Start: 72624, Stop: 72532, Start Num: 13
Candidate Starts for Lizzo_101:
(3, 72726), (4, 72723), (10, 72660), (Start: 13 @72624 has 31 MA's), (14, 72588), (15, 72585), (17, 72570), (18, 72564),

Gene: Msay19_106 Start: 74599, Stop: 74507, Start Num: 13
Candidate Starts for Msay19_106:
(1, 74719), (2, 74713), (3, 74701), (4, 74698), (10, 74635), (Start: 13 @74599 has 31 MA's), (14, 74563), (15, 74560), (17, 74545), (18, 74539),

Gene: PierreThree_101 Start: 73767, Stop: 73675, Start Num: 13
Candidate Starts for PierreThree_101:
(4, 73866), (7, 73812), (8, 73809), (10, 73803), (Start: 13 @73767 has 31 MA's), (14, 73731), (15, 73728), (17, 73713),

Gene: PokyPuppy_98 Start: 72815, Stop: 72723, Start Num: 12
Candidate Starts for PokyPuppy_98:
(5, 72881), (9, 72851), (11, 72818), (Start: 12 @72815 has 1 MA's), (14, 72779), (15, 72776), (17, 72761),

Gene: Poland_106 Start: 74560, Stop: 74468, Start Num: 13
Candidate Starts for Poland_106:
(1, 74680), (2, 74674), (3, 74662), (4, 74659), (10, 74596), (Start: 13 @74560 has 31 MA's), (14, 74524), (15, 74521), (17, 74506), (18, 74500),

Gene: RemRem_105 Start: 72810, Stop: 72718, Start Num: 13
Candidate Starts for RemRem_105:
(3, 72912), (4, 72909), (10, 72846), (Start: 13 @72810 has 31 MA's), (14, 72774), (15, 72771), (17, 72756), (18, 72750),

Gene: RoyalG_101 Start: 72525, Stop: 72433, Start Num: 13
Candidate Starts for RoyalG_101:
(2, 72639), (4, 72624), (10, 72561), (Start: 13 @72525 has 31 MA's), (16, 72480), (18, 72465), (19, 72438),

Gene: Sam12_100 Start: 72052, Stop: 71960, Start Num: 13
Candidate Starts for Sam12_100:
(3, 72154), (10, 72088), (Start: 13 @72052 has 31 MA's), (14, 72016), (15, 72013), (17, 71998), (18, 71992),

Gene: Sombrero_103 Start: 72863, Stop: 72771, Start Num: 13
Candidate Starts for Sombrero_103:
(1, 72983), (2, 72977), (3, 72965), (4, 72962), (10, 72899), (Start: 13 @72863 has 31 MA's), (14, 72827), (15, 72824), (17, 72809), (18, 72803),

Gene: Squibbles_102 Start: 73336, Stop: 73244, Start Num: 13
Candidate Starts for Squibbles_102:
(3, 73438), (4, 73435), (10, 73372), (Start: 13 @73336 has 31 MA's), (14, 73300), (15, 73297), (17, 73282), (18, 73276),

Gene: SteveFrench_100 Start: 72764, Stop: 72672, Start Num: 13
Candidate Starts for SteveFrench_100:
(2, 72878), (4, 72863), (10, 72800), (Start: 13 @72764 has 31 MA's), (16, 72719), (18, 72704), (19, 72677),

Gene: Worcestershire_101 Start: 72244, Stop: 72152, Start Num: 13
Candidate Starts for Worcestershire_101:
(3, 72346), (4, 72343), (10, 72280), (Start: 13 @72244 has 31 MA's), (14, 72208), (15, 72205), (17, 72190), (18, 72184),