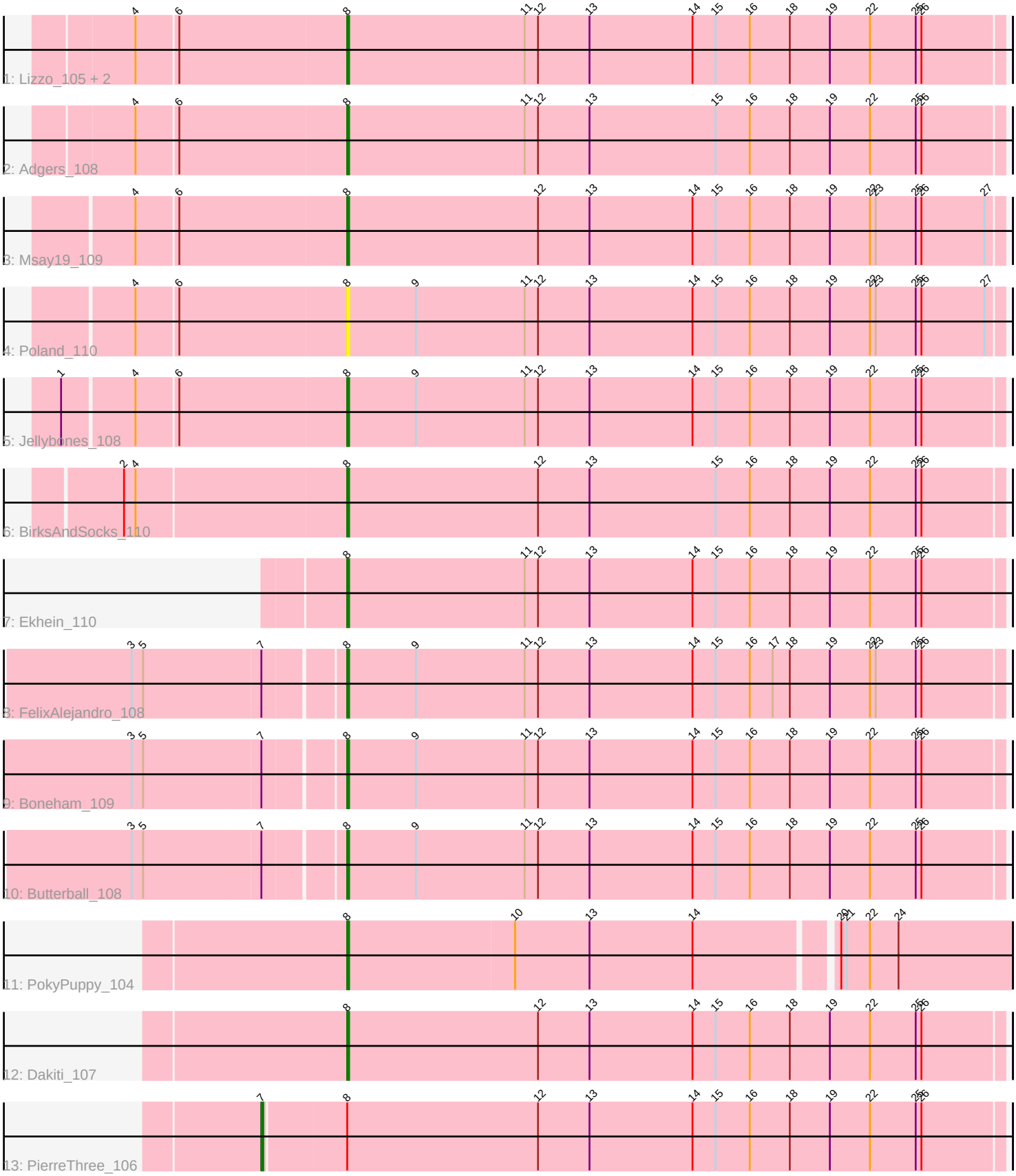
Pham 87234


1: Lizzo_105 + 2
2: Adgers_108
3: Msay19_109
4: Poland_110
5: Jellybones_108
6: BirksAndSocks_110
7: Ekhein_110
8: FelixAlejandro_108
9: Boneham_109
10: Butterball_108
11: PokyPuppy_104
12: Dakiti_107
13: PierreThree_106

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 87234 Report

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

Pham number 87234 has 15 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Lizzo_105, John316_109, CathyBurgh_104
• Track 2 : Adgers_108
• Track 3 : Msay19_109
• Track 4 : Poland_110
• Track 5 : Jellybones_108
• Track 6 : BirksAndSocks_110
• Track 7 : Ekhein_110
• Track 8 : FelixAlejandro_108
• Track 9 : Boneham_109
• Track 10 : Butterball_108
• Track 11 : PokyPuppy_104
• Track 12 : Dakiti_107
• Track 13 : PierreThree_106

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

The start number called the most often in the published annotations is 8, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adgers_108, BirksAndSocks_110, Boneham_109, Butterball_108, CathyBurgh_104, Dakiti_107, Ekhein_110, FelixAlejandro_108, Jellybones_108, John316_109, Lizzo_105, Msay19_109, PokyPuppy_104, Poland_110,

Genes that have the "Most Annotated" start but do not call it:
• PierreThree_106,

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

Summary by start number:

Start 7:
• Found in 4 of 15 (26.7%) of genes in pham

• Manual Annotations of this start: 1 of 13
• Called 25.0% of time when present
• Phage (with cluster) where this start called: PierreThree_106 (CS2),

Start 8:
• Found in 15 of 15 (100.0%) of genes in pham
• Manual Annotations of this start: 12 of 13
• Called 93.3% of time when present
• Phage (with cluster) where this start called: Adgers_108 (CS2), BirksAndSocks_110 (CS2), Boneham_109 (CS2), Butterball_108 (CS2), CathyBurgh_104 (CS2), Dakiti_107 (CS2), Ekhein_110 (CS2), FelixAlejandro_108 (CS2), Jellybones_108 (CS2), John316_109 (CS2), Lizzo_105 (CS2), Msay19_109 (CS2), PokyPuppy_104 (CS2), Poland_110 (CS2),

Summary by clusters:

There is one cluster represented in this pham: CS2

Info for manual annotations of cluster CS2:
•Start number 7 was manually annotated 1 time for cluster CS2.
•Start number 8 was manually annotated 12 times for cluster CS2.

Gene Information:

Gene: Adgers_108 Start: 73783, Stop: 73442, Start Num: 8
Candidate Starts for Adgers_108:
(4, 73891), (6, 73870), (Start: 8 @73783 has 12 MA's), (11, 73690), (12, 73684), (13, 73657), (15, 73591), (16, 73573), (18, 73552), (19, 73531), (22, 73510), (25, 73486), (26, 73483),

Gene: BirksAndSocks_110 Start: 75194, Stop: 74853, Start Num: 8
Candidate Starts for BirksAndSocks_110:
(2, 75308), (4, 75302), (Start: 8 @75194 has 12 MA's), (12, 75095), (13, 75068), (15, 75002), (16, 74984), (18, 74963), (19, 74942), (22, 74921), (25, 74897), (26, 74894),

Gene: Boneham_109 Start: 75120, Stop: 74779, Start Num: 8
Candidate Starts for Boneham_109:
(3, 75225), (5, 75219), (Start: 7 @75159 has 1 MA's), (Start: 8 @75120 has 12 MA's), (9, 75084), (11, 75027), (12, 75021), (13, 74994), (14, 74940), (15, 74928), (16, 74910), (18, 74889), (19, 74868), (22, 74847), (25, 74823), (26, 74820),

Gene: Butterball_108 Start: 75125, Stop: 74784, Start Num: 8
Candidate Starts for Butterball_108:
(3, 75230), (5, 75224), (Start: 7 @75164 has 1 MA's), (Start: 8 @75125 has 12 MA's), (9, 75089), (11, 75032), (12, 75026), (13, 74999), (14, 74945), (15, 74933), (16, 74915), (18, 74894), (19, 74873), (22, 74852), (25, 74828), (26, 74825),

Gene: CathyBurgh_104 Start: 73772, Stop: 73431, Start Num: 8
Candidate Starts for CathyBurgh_104:
(4, 73880), (6, 73859), (Start: 8 @73772 has 12 MA's), (11, 73679), (12, 73673), (13, 73646), (14, 73592), (15, 73580), (16, 73562), (18, 73541), (19, 73520), (22, 73499), (25, 73475), (26, 73472),

Gene: Dakiti_107 Start: 75501, Stop: 75160, Start Num: 8
Candidate Starts for Dakiti_107:
(Start: 8 @75501 has 12 MA's), (12, 75402), (13, 75375), (14, 75321), (15, 75309), (16, 75291), (18, 75270), (19, 75249), (22, 75228), (25, 75204), (26, 75201),

Gene: Ekhein_110 Start: 74481, Stop: 74140, Start Num: 8
Candidate Starts for Ekhein_110:
(Start: 8 @74481 has 12 MA's), (11, 74388), (12, 74382), (13, 74355), (14, 74301), (15, 74289), (16, 74271), (18, 74250), (19, 74229), (22, 74208), (25, 74184), (26, 74181),

Gene: FelixAlejandro_108 Start: 75080, Stop: 74739, Start Num: 8
Candidate Starts for FelixAlejandro_108:
(3, 75185), (5, 75179), (Start: 7 @75119 has 1 MA's), (Start: 8 @75080 has 12 MA's), (9, 75044), (11, 74987), (12, 74981), (13, 74954), (14, 74900), (15, 74888), (16, 74870), (17, 74858), (18, 74849), (19, 74828), (22, 74807), (23, 74804), (25, 74783), (26, 74780),

Gene: Jellybones_108 Start: 75326, Stop: 74985, Start Num: 8
Candidate Starts for Jellybones_108:
(1, 75470), (4, 75434), (6, 75413), (Start: 8 @75326 has 12 MA's), (9, 75290), (11, 75233), (12, 75227), (13, 75200), (14, 75146), (15, 75134), (16, 75116), (18, 75095), (19, 75074), (22, 75053), (25, 75029), (26, 75026),

Gene: John316_109 Start: 75109, Stop: 74768, Start Num: 8
Candidate Starts for John316_109:
(4, 75217), (6, 75196), (Start: 8 @75109 has 12 MA's), (11, 75016), (12, 75010), (13, 74983), (14, 74929), (15, 74917), (16, 74899), (18, 74878), (19, 74857), (22, 74836), (25, 74812), (26, 74809),

Gene: Lizzo_105 Start: 73772, Stop: 73431, Start Num: 8
Candidate Starts for Lizzo_105:
(4, 73880), (6, 73859), (Start: 8 @73772 has 12 MA's), (11, 73679), (12, 73673), (13, 73646), (14, 73592), (15, 73580), (16, 73562), (18, 73541), (19, 73520), (22, 73499), (25, 73475), (26, 73472),

Gene: Msay19_109 Start: 75395, Stop: 75054, Start Num: 8
Candidate Starts for Msay19_109:
(4, 75503), (6, 75482), (Start: 8 @75395 has 12 MA's), (12, 75296), (13, 75269), (14, 75215), (15, 75203), (16, 75185), (18, 75164), (19, 75143), (22, 75122), (23, 75119), (25, 75098), (26, 75095), (27, 75062),

Gene: PierreThree_106 Start: 75174, Stop: 74791, Start Num: 7
Candidate Starts for PierreThree_106:
(Start: 7 @75174 has 1 MA's), (Start: 8 @75132 has 12 MA's), (12, 75033), (13, 75006), (14, 74952), (15, 74940), (16, 74922), (18, 74901), (19, 74880), (22, 74859), (25, 74835), (26, 74832),

Gene: PokyPuppy_104 Start: 74802, Stop: 74464, Start Num: 8
Candidate Starts for PokyPuppy_104:
(Start: 8 @74802 has 12 MA's), (10, 74715), (13, 74676), (14, 74622), (20, 74553), (21, 74550), (22, 74538), (24, 74523),

Gene: Poland_110 Start: 75356, Stop: 75015, Start Num: 8
Candidate Starts for Poland_110:
(4, 75464), (6, 75443), (Start: 8 @75356 has 12 MA's), (9, 75320), (11, 75263), (12, 75257), (13, 75230), (14, 75176), (15, 75164), (16, 75146), (18, 75125), (19, 75104), (22, 75083), (23, 75080), (25, 75059), (26, 75056), (27, 75023),