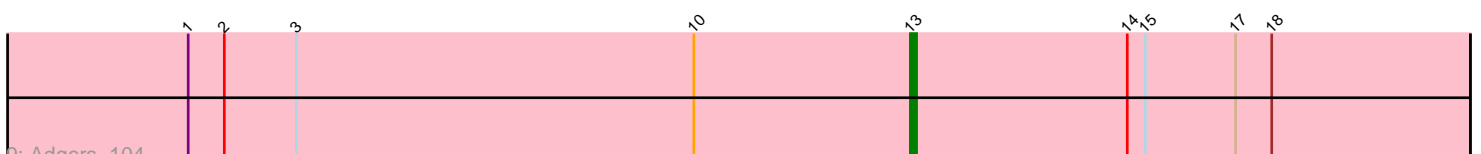
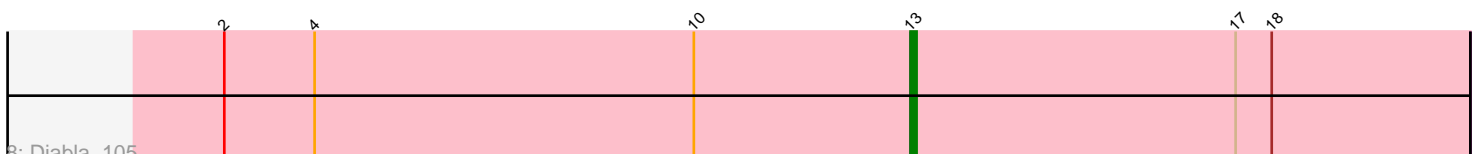
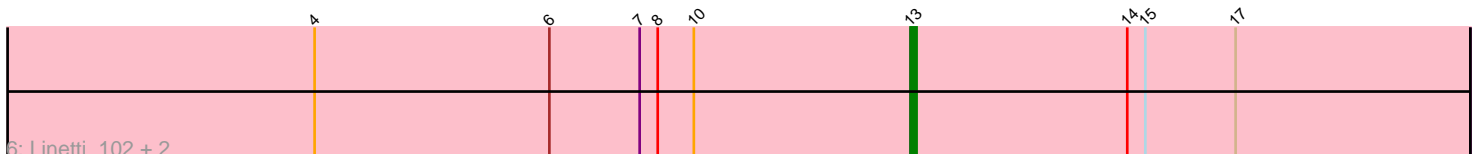
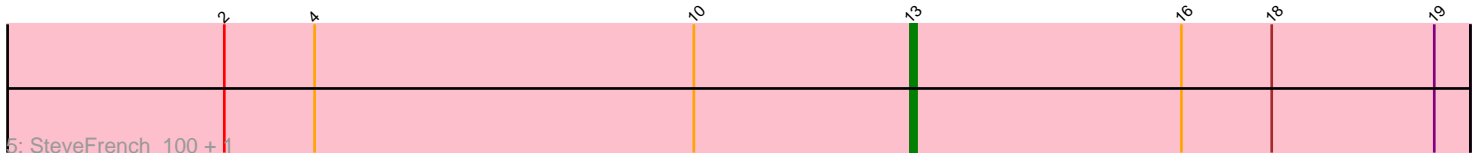
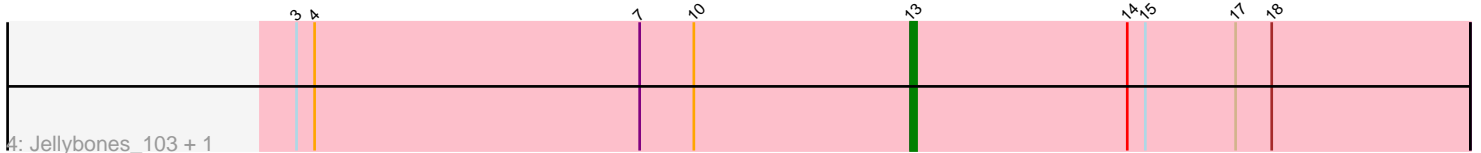
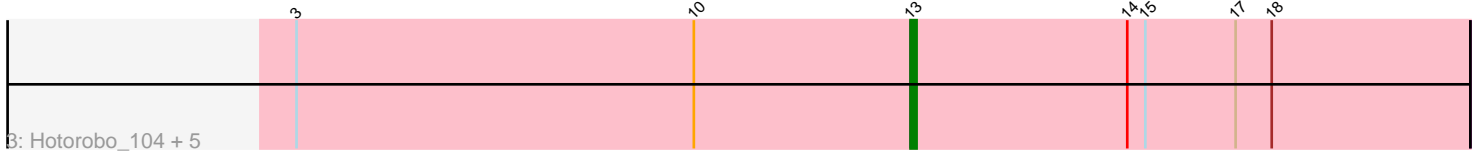
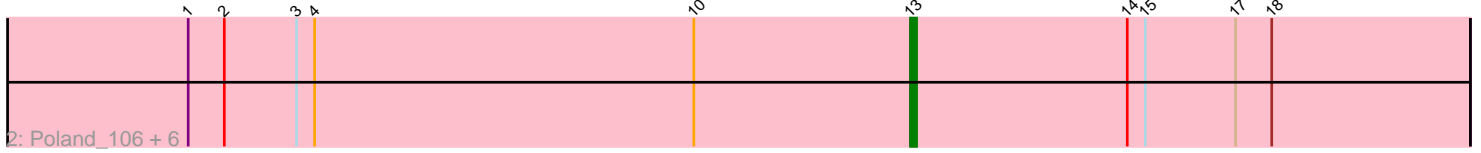
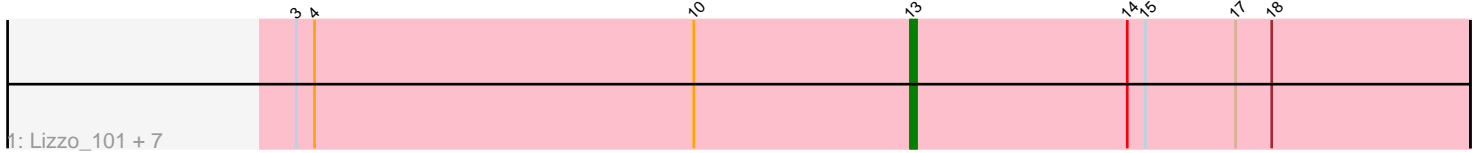


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 216391 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216391 has 33 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Lizzo\_101, RemRem\_105, Barbochs\_101, Ekhein\_105, CathyBurgh\_100, Worcestershire\_101, John316\_105, Squibbles\_102
- Track 2 : Poland\_106, FelixAlejandro\_105, CinnamonToast\_106, Butterball\_103, Msay19\_106, Sombrero\_103, BirksAndSocks\_105
- Track 3 : Hotorobo\_104, GourdThymes\_101, Sam12\_100, Breezic\_103, Gorko\_100, Flakey\_103
- Track 4 : Jellybones\_103, Beaver\_105
- Track 5 : SteveFrench\_100, RoyalG\_101
- 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 27 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers\_104, Barbochs\_101, Beaver\_105, BenoitCattle\_103, BigShaq\_103, BirksAndSocks\_105, Breezic\_103, Butterball\_103, CathyBurgh\_100, Chelms\_101, CinnamonToast\_106, Diabla\_105, Ekhein\_105, FelixAlejandro\_105, Flakey\_103, Gorko\_100, GourdThymes\_101, Hotorobo\_104, Jellybones\_103, John316\_105, 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 33 ( 3.0% ) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PokyPuppy\_98 (CS2),

### Start 13:

- Found in 32 of 33 ( 97.0% ) of genes in pham
- Manual Annotations of this start: 27 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adgers\_104 (CS2), Barbochs\_101 (CS2), Beaver\_105 (CS2), BenoitCattle\_103 (CS2), BigShaq\_103 (CS2), BirksAndSocks\_105 (CS2), Breezic\_103 (CS2), Butterball\_103 (CS2), CathyBurgh\_100 (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), 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 27 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 27 MA's), (14, 72861), (15, 72858), (17, 72843), (18, 72837),

Gene: Barbochs\_101 Start: 72091, Stop: 71999, Start Num: 13

Candidate Starts for Barbochs\_101:

(3, 72193), (4, 72190), (10, 72127), (Start: 13 @72091 has 27 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 27 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 27 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 27 MA's), (14, 73214), (15, 73211), (17, 73196),

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 27 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 27 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 27 MA's), (14, 73746), (15, 73743), (17, 73728), (18, 73722),

Gene: CathyBurgh\_100 Start: 72624, Stop: 72532, Start Num: 13

Candidate Starts for CathyBurgh\_100:

(3, 72726), (4, 72723), (10, 72660), (Start: 13 @72624 has 27 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 27 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 27 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 27 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 27 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 27 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 27 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 27 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 27 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 27 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 27 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 27 MA's), (14, 73924), (15, 73921), (17, 73906), (18, 73900),

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 27 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 27 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 27 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 27 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 27 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 27 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 27 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 27 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 27 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 27 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 27 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 27 MA's), (14, 72208), (15, 72205), (17, 72190), (18, 72184),