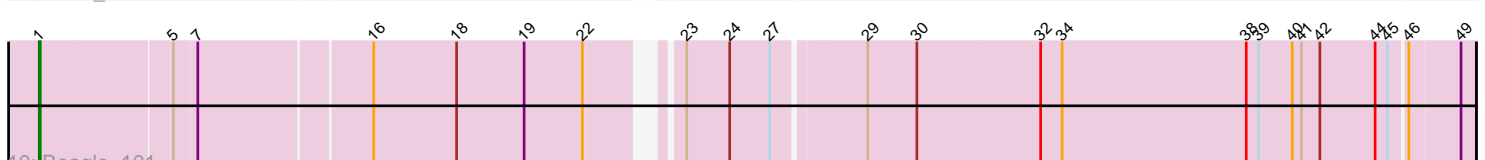
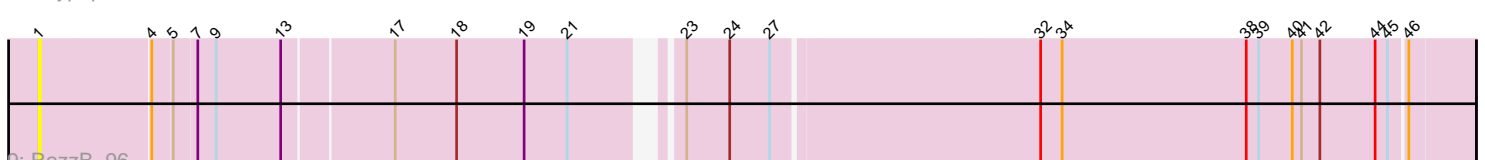
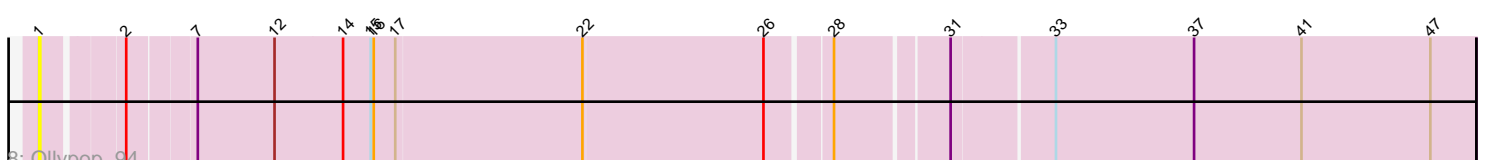
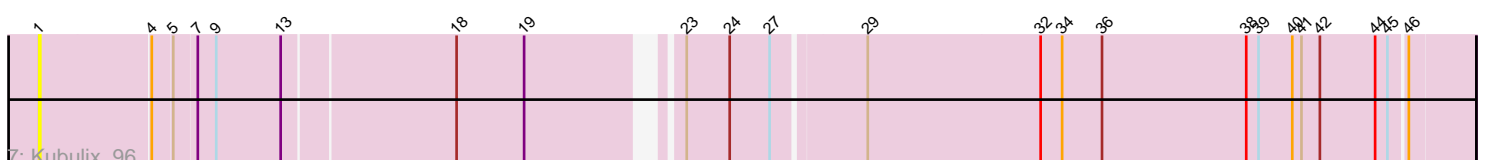
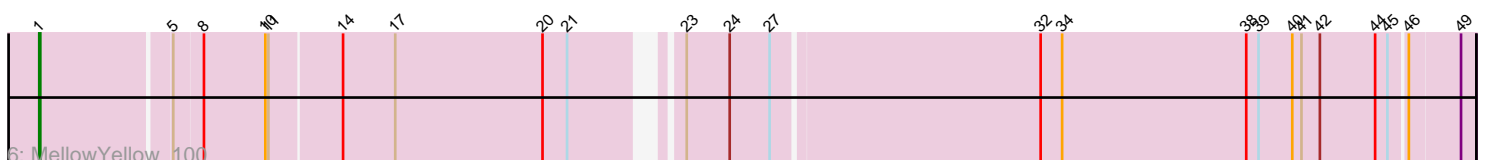
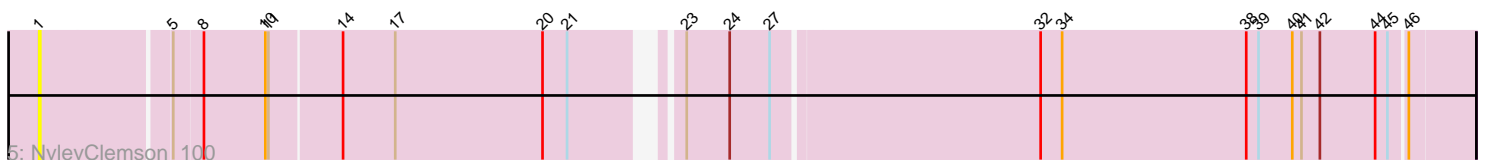
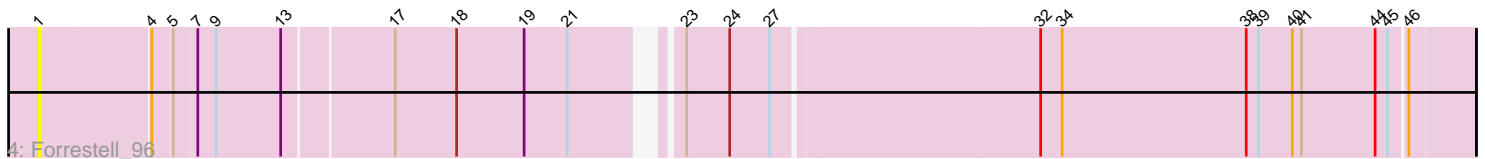
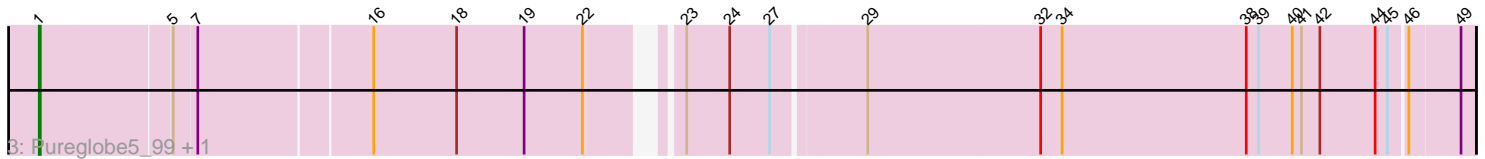
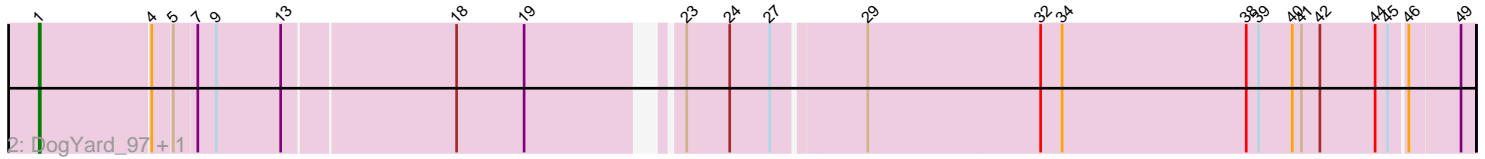
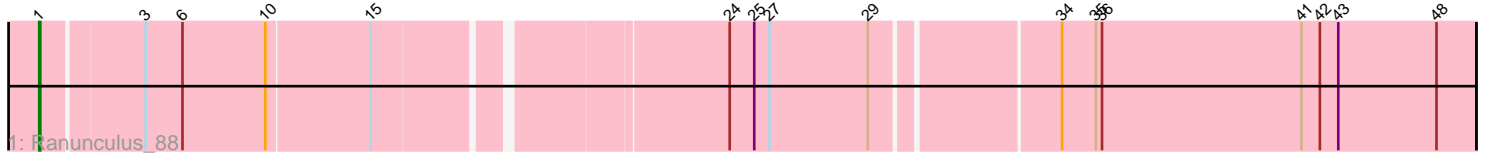


Pham 223579



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 223579 Report

This analysis was run 03/28/25 on database version 593.

Pham number 223579 has 12 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus\_88
- Track 2 : DogYard\_97, Odyssey395\_99
- Track 3 : Pureglobe5\_99, Pointis\_96
- Track 4 : Forrestell\_96
- Track 5 : NyleyClemson\_100
- Track 6 : MellowYellow\_100
- Track 7 : Kubulix\_96
- Track 8 : Ollypop\_94
- Track 9 : RazzB\_96
- Track 10 : Beagle\_101

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

The start number called the most often in the published annotations is 1, it was called in 6 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beagle\_101, DogYard\_97, Forrestell\_96, Kubulix\_96, MellowYellow\_100, NyleyClemson\_100, Odyssey395\_99, Ollypop\_94, Pointis\_96, Pureglobe5\_99, Ranunculus\_88, RazzB\_96,

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

- 

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

- 

### **Summary by start number:**

Start 1:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 6 of 6
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Beagle\_101 (AP2), DogYard\_97 (AP2), Forrestell\_96 (AP2), Kubulix\_96 (AP2), MellowYellow\_100 (AP2), NyleyClemson\_100 (AP2), Odyssey395\_99 (AP2), Ollypop\_94 (AP2), Pointis\_96 (AP2), Pureglobe5\_99 (AP2), Ranunculus\_88 (AP), RazzB\_96 (AP2),

### Summary by clusters:

There are 2 clusters represented in this pham: AP2, AP,

Info for manual annotations of cluster AP:

- Start number 1 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP2:

- Start number 1 was manually annotated 5 times for cluster AP2.

### Gene Information:

Gene: Beagle\_101 Start: 59990, Stop: 58668, Start Num: 1

Candidate Starts for Beagle\_101:

(Start: 1 @59990 has 6 MA's), (5, 59867), (7, 59846), (16, 59684), (18, 59603), (19, 59537), (22, 59480), (23, 59417), (24, 59375), (27, 59336), (29, 59252), (30, 59204), (32, 59084), (34, 59063), (38, 58883), (39, 58871), (40, 58838), (41, 58829), (42, 58811), (44, 58757), (45, 58745), (46, 58730), (49, 58682),

Gene: DogYard\_97 Start: 59698, Stop: 58373, Start Num: 1

Candidate Starts for DogYard\_97:

(Start: 1 @59698 has 6 MA's), (4, 59593), (5, 59575), (7, 59554), (9, 59536), (13, 59473), (18, 59311), (19, 59245), (23, 59122), (24, 59080), (27, 59041), (29, 58957), (32, 58789), (34, 58768), (38, 58588), (39, 58576), (40, 58543), (41, 58534), (42, 58516), (44, 58462), (45, 58450), (46, 58435), (49, 58387),

Gene: Forrestell\_96 Start: 58406, Stop: 57081, Start Num: 1

Candidate Starts for Forrestell\_96:

(Start: 1 @58406 has 6 MA's), (4, 58301), (5, 58283), (7, 58262), (9, 58244), (13, 58181), (17, 58079), (18, 58019), (19, 57953), (21, 57911), (23, 57830), (24, 57788), (27, 57749), (32, 57497), (34, 57476), (38, 57296), (39, 57284), (40, 57251), (41, 57242), (44, 57170), (45, 57158), (46, 57143),

Gene: Kubulix\_96 Start: 59365, Stop: 58040, Start Num: 1

Candidate Starts for Kubulix\_96:

(Start: 1 @59365 has 6 MA's), (4, 59260), (5, 59242), (7, 59221), (9, 59203), (13, 59140), (18, 58978), (19, 58912), (23, 58789), (24, 58747), (27, 58708), (29, 58624), (32, 58456), (34, 58435), (36, 58396), (38, 58255), (39, 58243), (40, 58210), (41, 58201), (42, 58183), (44, 58129), (45, 58117), (46, 58102),

Gene: MellowYellow\_100 Start: 59608, Stop: 58283, Start Num: 1

Candidate Starts for MellowYellow\_100:

(Start: 1 @59608 has 6 MA's), (5, 59488), (8, 59461), (10, 59401), (11, 59398), (14, 59332), (17, 59281), (20, 59137), (21, 59113), (23, 59032), (24, 58990), (27, 58951), (32, 58699), (34, 58678), (38, 58498), (39, 58486), (40, 58453), (41, 58444), (42, 58426), (44, 58372), (45, 58360), (46, 58345), (49, 58297),

Gene: NyleyClemson\_100 Start: 59238, Stop: 57913, Start Num: 1

Candidate Starts for NyleyClemson\_100:

(Start: 1 @59238 has 6 MA's), (5, 59118), (8, 59091), (10, 59031), (11, 59028), (14, 58962), (17, 58911), (20, 58767), (21, 58743), (23, 58662), (24, 58620), (27, 58581), (32, 58329), (34, 58308), (38, 58128), (39, 58116), (40, 58083), (41, 58074), (42, 58056), (44, 58002), (45, 57990), (46, 57975),

Gene: Odyssey395\_99 Start: 59388, Stop: 58063, Start Num: 1

Candidate Starts for Odyssey395\_99:

(Start: 1 @59388 has 6 MA's), (4, 59283), (5, 59265), (7, 59244), (9, 59226), (13, 59163), (18, 59001), (19, 58935), (23, 58812), (24, 58770), (27, 58731), (29, 58647), (32, 58479), (34, 58458), (38, 58278), (39, 58266), (40, 58233), (41, 58224), (42, 58206), (44, 58152), (45, 58140), (46, 58125), (49, 58077),

Gene: Ollypop\_94 Start: 60723, Stop: 59386, Start Num: 1

Candidate Starts for Ollypop\_94:

(Start: 1 @60723 has 6 MA's), (2, 60654), (7, 60594), (12, 60519), (14, 60453), (15, 60426), (16, 60423), (17, 60402), (22, 60222), (26, 60048), (28, 59991), (31, 59889), (33, 59796), (37, 59661), (41, 59556), (47, 59430),

Gene: Pointis\_96 Start: 59281, Stop: 57959, Start Num: 1

Candidate Starts for Pointis\_96:

(Start: 1 @59281 has 6 MA's), (5, 59158), (7, 59137), (16, 58975), (18, 58894), (19, 58828), (22, 58771), (23, 58708), (24, 58666), (27, 58627), (29, 58543), (32, 58375), (34, 58354), (38, 58174), (39, 58162), (40, 58129), (41, 58120), (42, 58102), (44, 58048), (45, 58036), (46, 58021), (49, 57973),

Gene: Pureglobe5\_99 Start: 59946, Stop: 58624, Start Num: 1

Candidate Starts for Pureglobe5\_99:

(Start: 1 @59946 has 6 MA's), (5, 59823), (7, 59802), (16, 59640), (18, 59559), (19, 59493), (22, 59436), (23, 59373), (24, 59331), (27, 59292), (29, 59208), (32, 59040), (34, 59019), (38, 58839), (39, 58827), (40, 58794), (41, 58785), (42, 58767), (44, 58713), (45, 58701), (46, 58686), (49, 58638),

Gene: Ranunculus\_88 Start: 60245, Stop: 58917, Start Num: 1

Candidate Starts for Ranunculus\_88:

(Start: 1 @60245 has 6 MA's), (3, 60152), (6, 60116), (10, 60035), (15, 59936), (24, 59624), (25, 59600), (27, 59585), (29, 59489), (34, 59321), (35, 59288), (36, 59282), (41, 59087), (42, 59069), (43, 59051), (48, 58955),

Gene: RazzB\_96 Start: 58818, Stop: 57493, Start Num: 1

Candidate Starts for RazzB\_96:

(Start: 1 @58818 has 6 MA's), (4, 58713), (5, 58695), (7, 58674), (9, 58656), (13, 58593), (17, 58491), (18, 58431), (19, 58365), (21, 58323), (23, 58242), (24, 58200), (27, 58161), (32, 57909), (34, 57888), (38, 57708), (39, 57696), (40, 57663), (41, 57654), (42, 57636), (44, 57582), (45, 57570), (46, 57555),