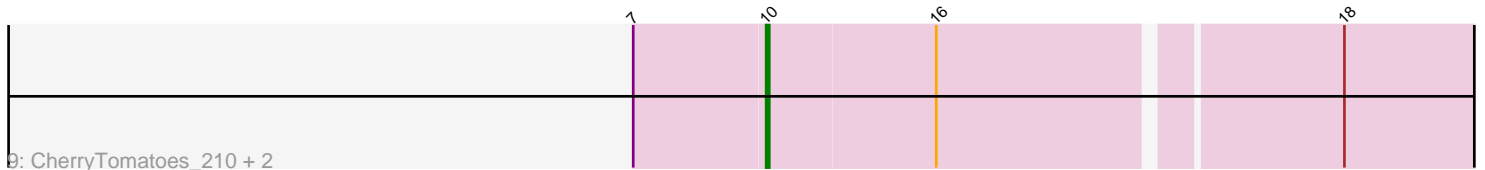
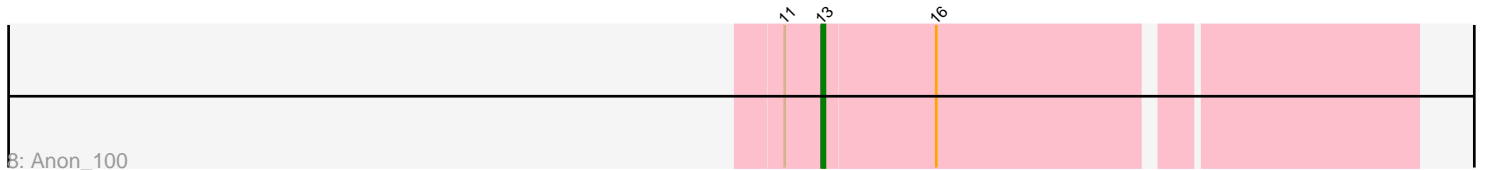
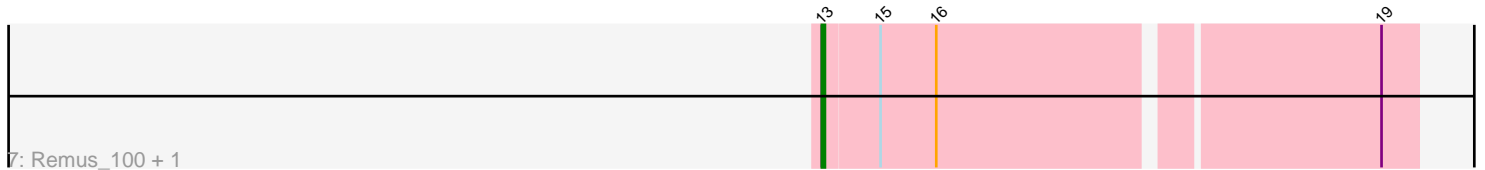
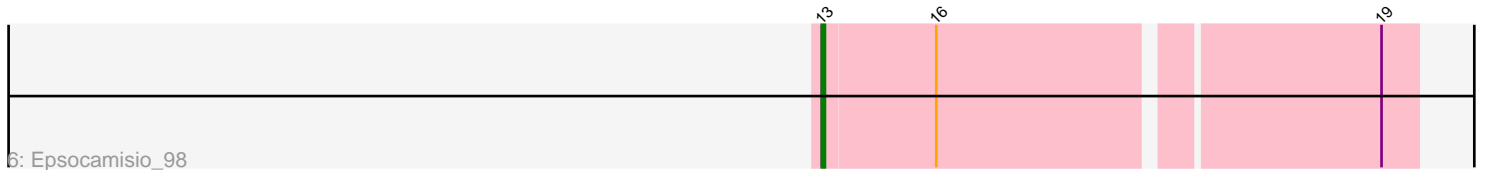
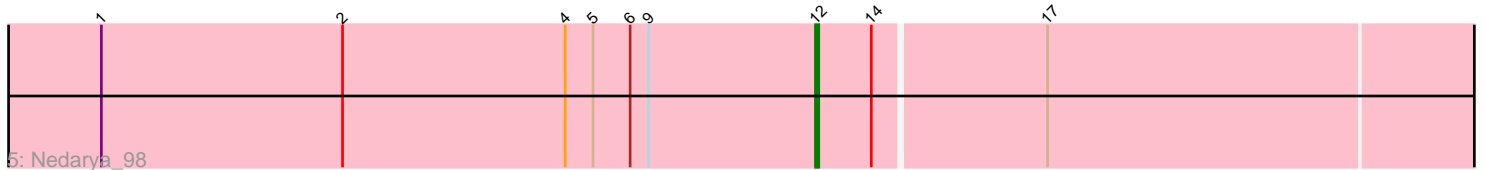
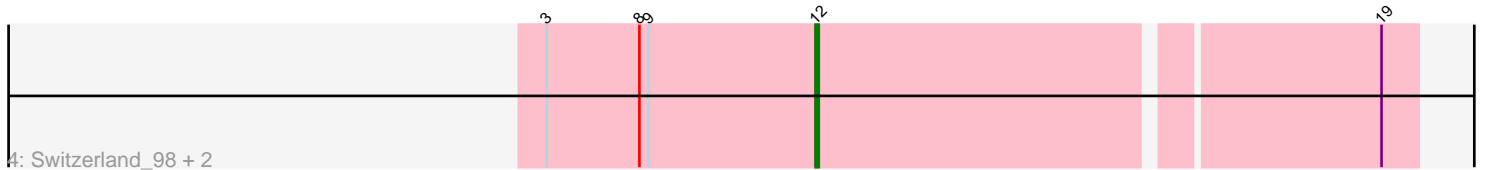
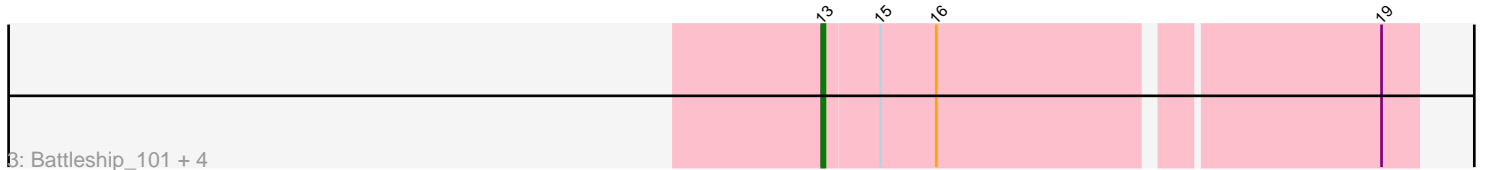
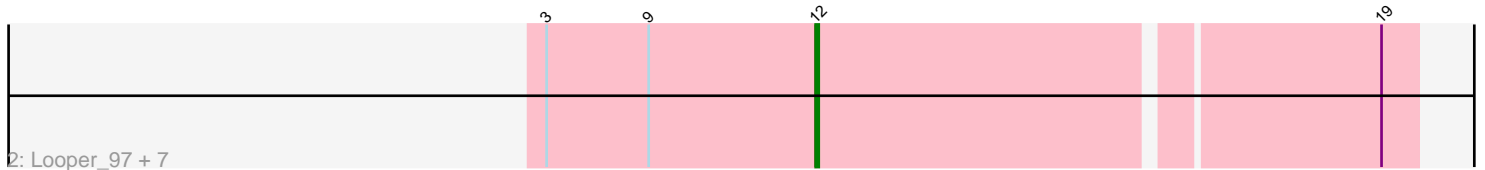


# Pham 156633



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 156633 Report

This analysis was run 04/12/24 on database version 558.

Pham number 156633 has 25 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Oofda\_99
- Track 2 : Looper\_97, ReMo\_98, LastResort\_98, Nebulosus\_97, JSwag\_101, Soups\_100, Boohoo\_99, Anaysia\_100
- Track 3 : Battleship\_101, MinecraftSteve\_99, Rosalind\_99, Waits\_98, DekHockey33\_101
- Track 4 : Switzerland\_98, KatherineG\_99, ShayRa\_98
- Track 5 : Nedarya\_98
- Track 6 : Epsocamisio\_98
- Track 7 : Remus\_100, Strosahl\_100
- Track 8 : Anon\_100
- Track 9 : CherryTomatoes\_210, Pupper\_203, SCentae\_202

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

The start number called the most often in the published annotations is 12, it was called in 12 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anaysia\_100, Boohoo\_99, JSwag\_101, KatherineG\_99, LastResort\_98, Looper\_97, Nebulosus\_97, Nedarya\_98, ReMo\_98, ShayRa\_98, Soups\_100, Switzerland\_98,

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

- 

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

- Anon\_100, Battleship\_101, CherryTomatoes\_210, DekHockey33\_101, Epsocamisio\_98, MinecraftSteve\_99, Oofda\_99, Pupper\_203, Remus\_100, Rosalind\_99, SCentae\_202, Strosahl\_100, Waits\_98,

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

Start 10:

- Found in 3 of 25 ( 12.0% ) of genes in pham
- Manual Annotations of this start: 2 of 23

- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryTomatoes\_210 (DO), Pupper\_203 (DO), SCentae\_202 (DO),

Start 12:

- Found in 12 of 25 ( 48.0% ) of genes in pham
- Manual Annotations of this start: 12 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anaysia\_100 (A15), Boohoo\_99 (A15), JSwag\_101 (A15), KatherineG\_99 (A15), LastResort\_98 (A15), Looper\_97 (A15), Nebulosus\_97 (A15), Nedarya\_98 (A15), ReMo\_98 (A15), ShayRa\_98 (A15), Soups\_100 (A15), Switzerland\_98 (A15),

Start 13:

- Found in 10 of 25 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 9 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anon\_100 (A15), Battleship\_101 (A15), DekHockey33\_101 (A15), Epsocamisio\_98 (A15), MinecraftSteve\_99 (A15), Oofda\_99 (A15), Remus\_100 (A15), Rosalind\_99 (A15), Strosahl\_100 (A15), Waits\_98 (A15),

### **Summary by clusters:**

There are 2 clusters represented in this pham: A15, DO,

Info for manual annotations of cluster A15:

- Start number 12 was manually annotated 12 times for cluster A15.
- Start number 13 was manually annotated 9 times for cluster A15.

Info for manual annotations of cluster DO:

- Start number 10 was manually annotated 2 times for cluster DO.

### ***Gene Information:***

Gene: Anaysia\_100 Start: 50870, Stop: 50685, Start Num: 12

Candidate Starts for Anaysia\_100:

(3, 50957), (9, 50924), (Start: 12 @50870 has 12 MA's), (19, 50696),

Gene: Anon\_100 Start: 51058, Stop: 50876, Start Num: 13

Candidate Starts for Anon\_100:

(11, 51070), (Start: 13 @51058 has 9 MA's), (16, 51022),

Gene: Battleship\_101 Start: 50527, Stop: 50345, Start Num: 13

Candidate Starts for Battleship\_101:

(Start: 13 @50527 has 9 MA's), (15, 50509), (16, 50491), (19, 50356),

Gene: Boohoo\_99 Start: 50187, Stop: 50002, Start Num: 12

Candidate Starts for Boohoo\_99:

(3, 50274), (9, 50241), (Start: 12 @50187 has 12 MA's), (19, 50013),

Gene: CherryTomatoes\_210 Start: 139936, Stop: 140175, Start Num: 10  
Candidate Starts for CherryTomatoes\_210:  
(7, 139894), (Start: 10 @139936 has 2 MA's), (16, 139990), (18, 140113),

Gene: DekHockey33\_101 Start: 50740, Stop: 50558, Start Num: 13  
Candidate Starts for DekHockey33\_101:  
(Start: 13 @50740 has 9 MA's), (15, 50722), (16, 50704), (19, 50569),

Gene: Epsocamisio\_98 Start: 50543, Stop: 50361, Start Num: 13  
Candidate Starts for Epsocamisio\_98:  
(Start: 13 @50543 has 9 MA's), (16, 50507), (19, 50372),

Gene: JSwag\_101 Start: 50394, Stop: 50209, Start Num: 12  
Candidate Starts for JSwag\_101:  
(3, 50481), (9, 50448), (Start: 12 @50394 has 12 MA's), (19, 50220),

Gene: KatherineG\_99 Start: 50695, Stop: 50510, Start Num: 12  
Candidate Starts for KatherineG\_99:  
(3, 50782), (8, 50752), (9, 50749), (Start: 12 @50695 has 12 MA's), (19, 50521),

Gene: LastResort\_98 Start: 50628, Stop: 50443, Start Num: 12  
Candidate Starts for LastResort\_98:  
(3, 50715), (9, 50682), (Start: 12 @50628 has 12 MA's), (19, 50454),

Gene: Looper\_97 Start: 49477, Stop: 49292, Start Num: 12  
Candidate Starts for Looper\_97:  
(3, 49564), (9, 49531), (Start: 12 @49477 has 12 MA's), (19, 49303),

Gene: MinecraftSteve\_99 Start: 50323, Stop: 50141, Start Num: 13  
Candidate Starts for MinecraftSteve\_99:  
(Start: 13 @50323 has 9 MA's), (15, 50305), (16, 50287), (19, 50152),

Gene: Nebulosus\_97 Start: 50185, Stop: 50000, Start Num: 12  
Candidate Starts for Nebulosus\_97:  
(3, 50272), (9, 50239), (Start: 12 @50185 has 12 MA's), (19, 50011),

Gene: Nedarya\_98 Start: 51145, Stop: 50927, Start Num: 12  
Candidate Starts for Nedarya\_98:  
(1, 51376), (2, 51298), (4, 51226), (5, 51217), (6, 51205), (9, 51199), (Start: 12 @51145 has 12 MA's),  
(14, 51127), (17, 51073),

Gene: Oofda\_99 Start: 50749, Stop: 50567, Start Num: 13  
Candidate Starts for Oofda\_99:  
(Start: 13 @50749 has 9 MA's), (16, 50713),

Gene: Pupper\_203 Start: 139798, Stop: 140037, Start Num: 10  
Candidate Starts for Pupper\_203:  
(7, 139756), (Start: 10 @139798 has 2 MA's), (16, 139852), (18, 139975),

Gene: ReMo\_98 Start: 50611, Stop: 50426, Start Num: 12  
Candidate Starts for ReMo\_98:  
(3, 50698), (9, 50665), (Start: 12 @50611 has 12 MA's), (19, 50437),

Gene: Remus\_100 Start: 51017, Stop: 50835, Start Num: 13  
Candidate Starts for Remus\_100:  
(Start: 13 @51017 has 9 MA's), (15, 50999), (16, 50981), (19, 50846),

Gene: Rosalind\_99 Start: 50456, Stop: 50274, Start Num: 13  
Candidate Starts for Rosalind\_99:  
(Start: 13 @50456 has 9 MA's), (15, 50438), (16, 50420), (19, 50285),

Gene: SCentae\_202 Start: 139989, Stop: 140228, Start Num: 10  
Candidate Starts for SCentae\_202:  
(7, 139947), (Start: 10 @139989 has 2 MA's), (16, 140043), (18, 140166),

Gene: ShayRa\_98 Start: 49243, Stop: 49058, Start Num: 12  
Candidate Starts for ShayRa\_98:  
(3, 49330), (8, 49300), (9, 49297), (Start: 12 @49243 has 12 MA's), (19, 49069),

Gene: Soups\_100 Start: 50936, Stop: 50751, Start Num: 12  
Candidate Starts for Soups\_100:  
(3, 51023), (9, 50990), (Start: 12 @50936 has 12 MA's), (19, 50762),

Gene: Strosahl\_100 Start: 51017, Stop: 50835, Start Num: 13  
Candidate Starts for Strosahl\_100:  
(Start: 13 @51017 has 9 MA's), (15, 50999), (16, 50981), (19, 50846),

Gene: Switzerland\_98 Start: 50212, Stop: 50027, Start Num: 12  
Candidate Starts for Switzerland\_98:  
(3, 50299), (8, 50269), (9, 50266), (Start: 12 @50212 has 12 MA's), (19, 50038),

Gene: Waits\_98 Start: 50630, Stop: 50448, Start Num: 13  
Candidate Starts for Waits\_98:  
(Start: 13 @50630 has 9 MA's), (15, 50612), (16, 50594), (19, 50459),