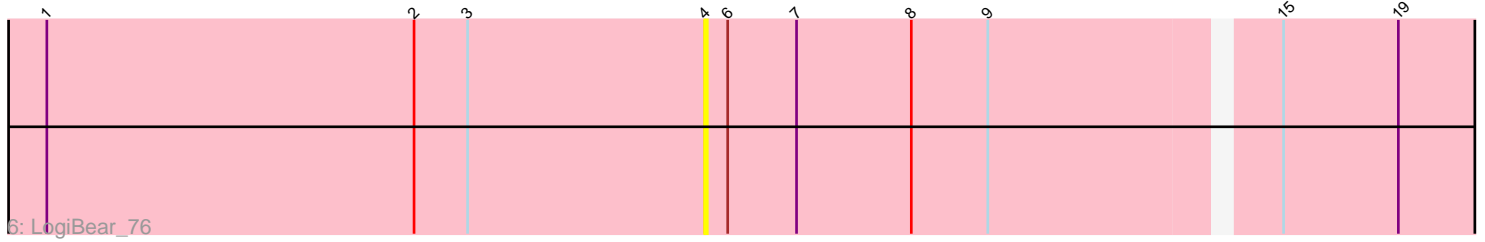
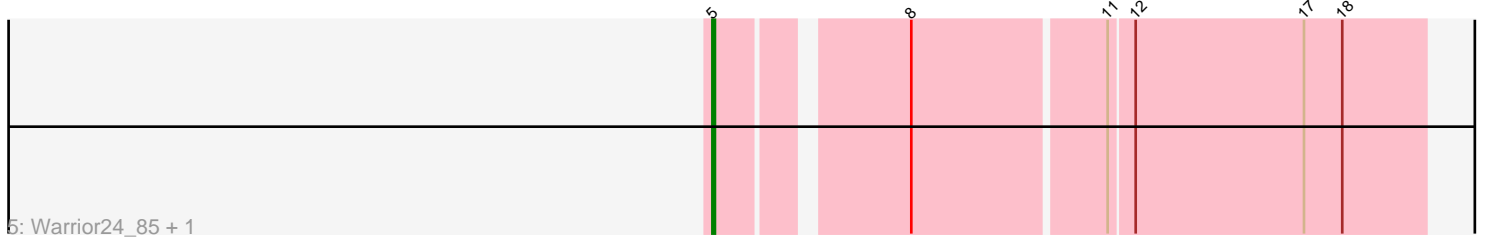
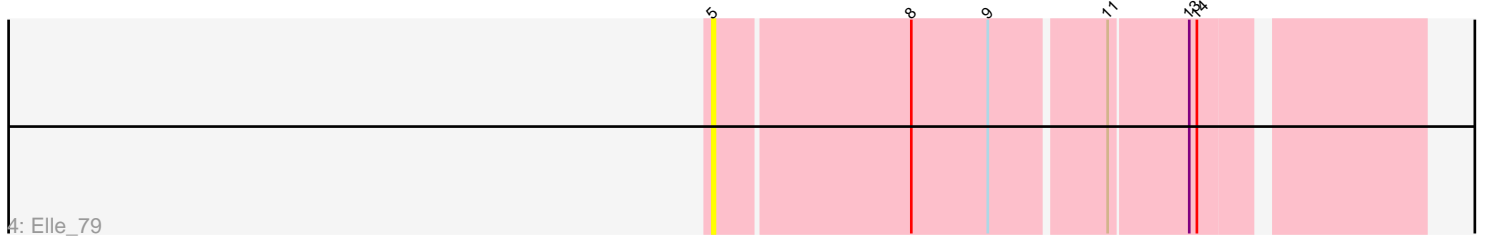
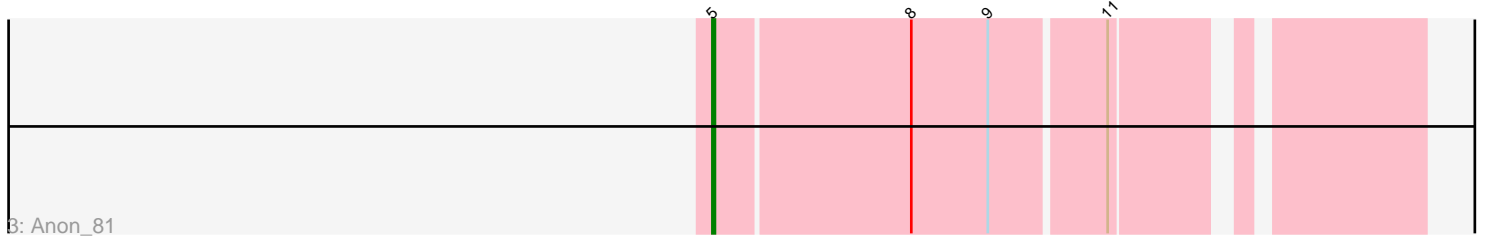
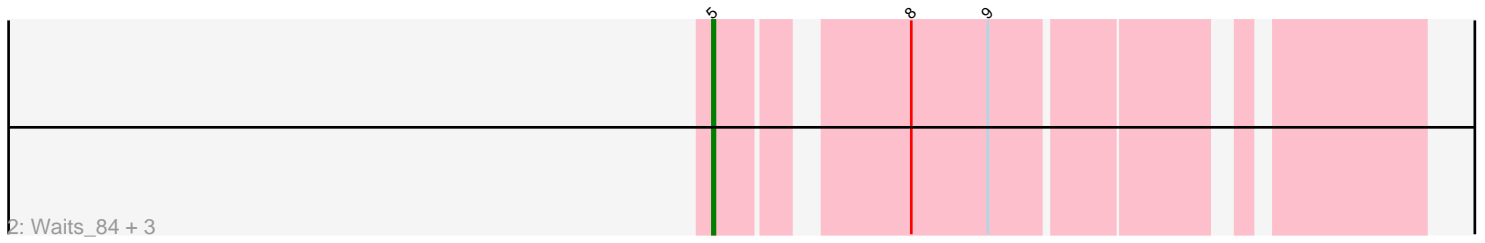
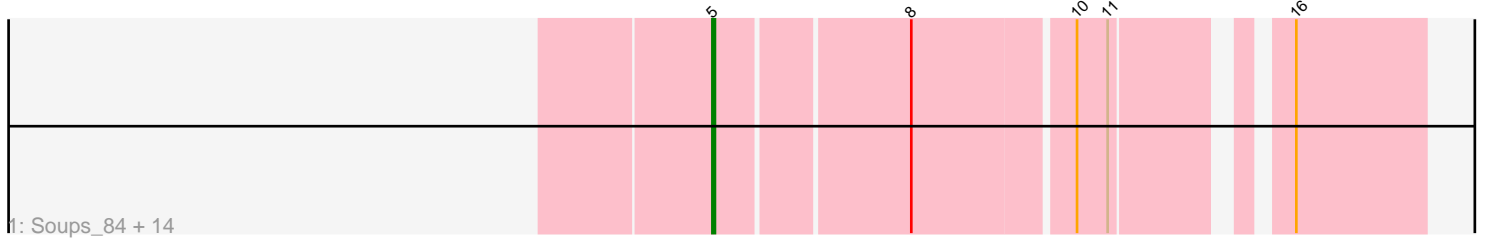


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 309182 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309182 has 24 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Soups\_84, ShayRa\_83, Epsocamisio\_82, Remus\_85, LastResort\_83, Boohoo\_84, Nebulosus\_82, Anaysia\_85, Ravana\_86, Strosahl\_85, KatherineG\_85, ReMo\_83, Switzerland\_83, Rosalind\_83, JSwag\_85
- Track 2 : Waits\_84, MinecraftSteve\_85, DekHockey33\_86, Battleship\_87
- Track 3 : Anon\_81
- Track 4 : Elle\_79
- Track 5 : Warrior24\_85, Oofda\_84
- Track 6 : LogiBear\_76

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

The start number called the most often in the published annotations is 5, it was called in 22 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anaysia\_85, Anon\_81, Battleship\_87, Boohoo\_84, DekHockey33\_86, Elle\_79, Epsocamisio\_82, JSwag\_85, KatherineG\_85, LastResort\_83, MinecraftSteve\_85, Nebulosus\_82, Oofda\_84, Ravana\_86, ReMo\_83, Remus\_85, Rosalind\_83, ShayRa\_83, Soups\_84, Strosahl\_85, Switzerland\_83, Waits\_84, Warrior24\_85,

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

- 

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

- LogiBear\_76,

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

Start 4:

- Found in 1 of 24 ( 4.2% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LogiBear\_76 (A15),

Start 5:

- Found in 23 of 24 ( 95.8% ) of genes in pham
- Manual Annotations of this start: 22 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anaysia\_85 (A15), Anon\_81 (A15), Battleship\_87 (A15), Boohoo\_84 (A15), DekHockey33\_86 (A15), Elle\_79 (A15), Epsocamisio\_82 (A15), JSwag\_85 (A15), KatherineG\_85 (A15), LastResort\_83 (A15), MinecraftSteve\_85 (A15), Nebulosus\_82 (A15), Oofda\_84 (A15), Ravana\_86 (A15), ReMo\_83 (A15), Remus\_85 (A15), Rosalind\_83 (A15), ShayRa\_83 (A15), Soups\_84 (A15), Strosahl\_85 (A15), Switzerland\_83 (A15), Waits\_84 (A15), Warrior24\_85 (A15),

### Summary by clusters:

There is one cluster represented in this pham: A15

Info for manual annotations of cluster A15:

- Start number 5 was manually annotated 22 times for cluster A15.

### Gene Information:

Gene: Anaysia\_85 Start: 46571, Stop: 46323, Start Num: 5

Candidate Starts for Anaysia\_85:

(Start: 5 @46571 has 22 MA's), (8, 46499), (10, 46439), (11, 46427), (16, 46373),

Gene: Anon\_81 Start: 45893, Stop: 45642, Start Num: 5

Candidate Starts for Anon\_81:

(Start: 5 @45893 has 22 MA's), (8, 45818), (9, 45788), (11, 45746),

Gene: Battleship\_87 Start: 46417, Stop: 46178, Start Num: 5

Candidate Starts for Battleship\_87:

(Start: 5 @46417 has 22 MA's), (8, 46354), (9, 46324),

Gene: Boohoo\_84 Start: 45888, Stop: 45640, Start Num: 5

Candidate Starts for Boohoo\_84:

(Start: 5 @45888 has 22 MA's), (8, 45816), (10, 45756), (11, 45744), (16, 45690),

Gene: DekHockey33\_86 Start: 46502, Stop: 46263, Start Num: 5

Candidate Starts for DekHockey33\_86:

(Start: 5 @46502 has 22 MA's), (8, 46439), (9, 46409),

Gene: Elle\_79 Start: 45247, Stop: 44987, Start Num: 5

Candidate Starts for Elle\_79:

(Start: 5 @45247 has 22 MA's), (8, 45172), (9, 45142), (11, 45100), (13, 45070), (14, 45067),

Gene: Epsocamisio\_82 Start: 45801, Stop: 45553, Start Num: 5

Candidate Starts for Epsocamisio\_82:

(Start: 5 @45801 has 22 MA's), (8, 45729), (10, 45669), (11, 45657), (16, 45603),

Gene: JSwag\_85 Start: 46086, Stop: 45838, Start Num: 5

Candidate Starts for JSwag\_85:

(Start: 5 @46086 has 22 MA's), (8, 46014), (10, 45954), (11, 45942), (16, 45888),

Gene: KatherineG\_85 Start: 46398, Stop: 46150, Start Num: 5

Candidate Starts for KatherineG\_85:

(Start: 5 @46398 has 22 MA's), (8, 46326), (10, 46266), (11, 46254), (16, 46200),

Gene: LastResort\_83 Start: 46329, Stop: 46081, Start Num: 5

Candidate Starts for LastResort\_83:

(Start: 5 @46329 has 22 MA's), (8, 46257), (10, 46197), (11, 46185), (16, 46131),

Gene: LogiBear\_76 Start: 44329, Stop: 44021, Start Num: 4

Candidate Starts for LogiBear\_76:

(1, 44587), (2, 44443), (3, 44422), (4, 44329), (6, 44320), (7, 44293), (8, 44248), (9, 44218), (15, 44113), (19, 44068),

Gene: MinecraftSteve\_85 Start: 46213, Stop: 45974, Start Num: 5

Candidate Starts for MinecraftSteve\_85:

(Start: 5 @46213 has 22 MA's), (8, 46150), (9, 46120),

Gene: Nebulosus\_82 Start: 45886, Stop: 45638, Start Num: 5

Candidate Starts for Nebulosus\_82:

(Start: 5 @45886 has 22 MA's), (8, 45814), (10, 45754), (11, 45742), (16, 45688),

Gene: Oofda\_84 Start: 46189, Stop: 45929, Start Num: 5

Candidate Starts for Oofda\_84:

(Start: 5 @46189 has 22 MA's), (8, 46123), (11, 46051), (12, 46042), (17, 45976), (18, 45961),

Gene: Ravana\_86 Start: 47589, Stop: 47341, Start Num: 5

Candidate Starts for Ravana\_86:

(Start: 5 @47589 has 22 MA's), (8, 47517), (10, 47457), (11, 47445), (16, 47391),

Gene: ReMo\_83 Start: 46326, Stop: 46078, Start Num: 5

Candidate Starts for ReMo\_83:

(Start: 5 @46326 has 22 MA's), (8, 46254), (10, 46194), (11, 46182), (16, 46128),

Gene: Remus\_85 Start: 46256, Stop: 46008, Start Num: 5

Candidate Starts for Remus\_85:

(Start: 5 @46256 has 22 MA's), (8, 46184), (10, 46124), (11, 46112), (16, 46058),

Gene: Rosalind\_83 Start: 46150, Stop: 45902, Start Num: 5

Candidate Starts for Rosalind\_83:

(Start: 5 @46150 has 22 MA's), (8, 46078), (10, 46018), (11, 46006), (16, 45952),

Gene: ShayRa\_83 Start: 44958, Stop: 44710, Start Num: 5

Candidate Starts for ShayRa\_83:

(Start: 5 @44958 has 22 MA's), (8, 44886), (10, 44826), (11, 44814), (16, 44760),

Gene: Soups\_84 Start: 46045, Stop: 45797, Start Num: 5

Candidate Starts for Soups\_84:

(Start: 5 @46045 has 22 MA's), (8, 45973), (10, 45913), (11, 45901), (16, 45847),

Gene: Strosahl\_85 Start: 46256, Stop: 46008, Start Num: 5

Candidate Starts for Strosahl\_85:

(Start: 5 @46256 has 22 MA's), (8, 46184), (10, 46124), (11, 46112), (16, 46058),

Gene: Switzerland\_83 Start: 45927, Stop: 45679, Start Num: 5

Candidate Starts for Switzerland\_83:

(Start: 5 @45927 has 22 MA's), (8, 45855), (10, 45795), (11, 45783), (16, 45729),

Gene: Waits\_84 Start: 46147, Stop: 45908, Start Num: 5

Candidate Starts for Waits\_84:

(Start: 5 @46147 has 22 MA's), (8, 46084), (9, 46054),

Gene: Warrior24\_85 Start: 46645, Stop: 46385, Start Num: 5

Candidate Starts for Warrior24\_85:

(Start: 5 @46645 has 22 MA's), (8, 46579), (11, 46507), (12, 46498), (17, 46432), (18, 46417),