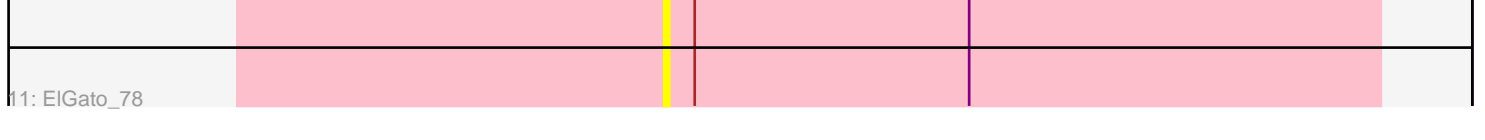
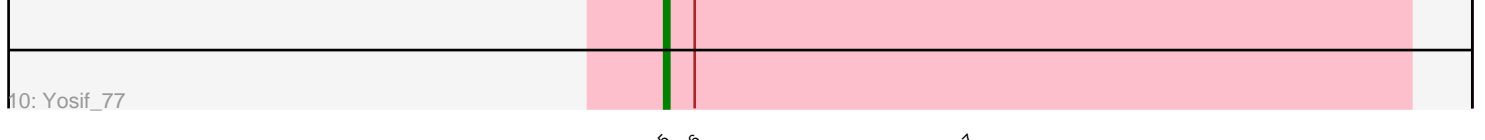
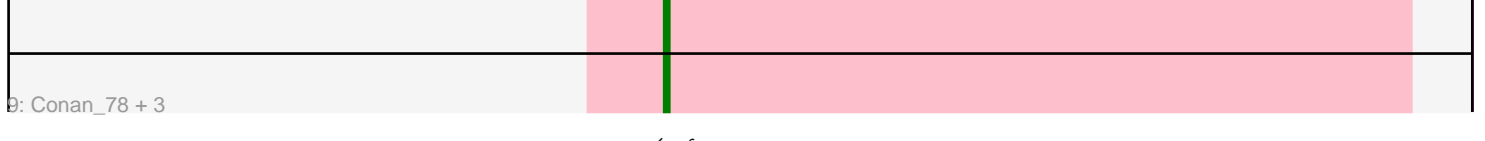
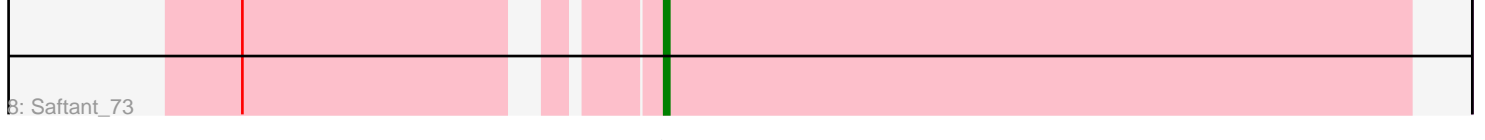
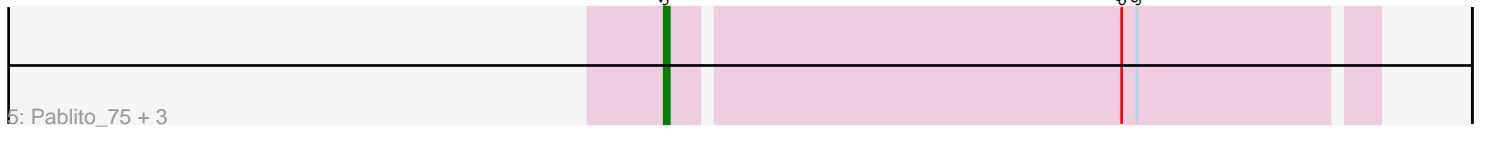
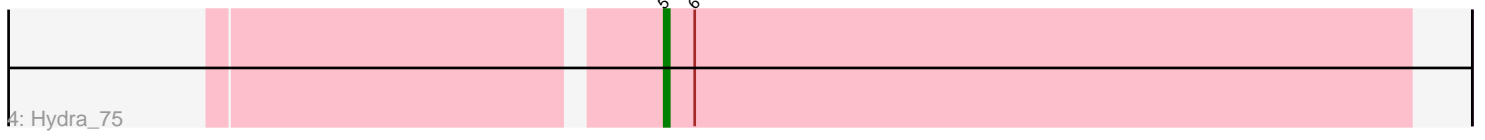
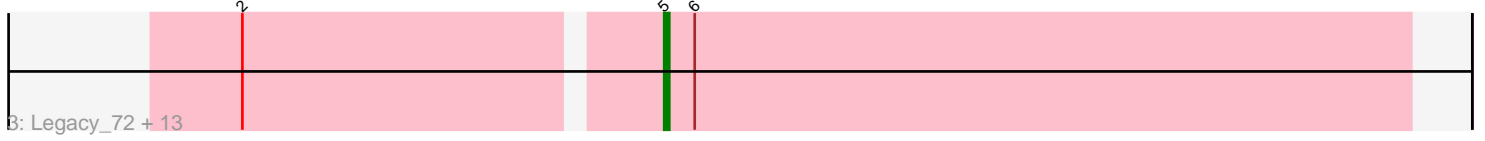
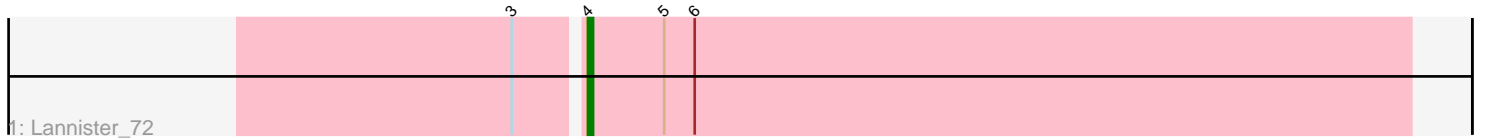


Pham 158032



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 158032 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158032 has 37 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Lannister\_72
- Track 2 : Bovely\_72, Rusticus\_74, BryanRecycles\_74, Jash\_74, Izzy\_74, Eddasa\_75
- Track 3 : Legacy\_72, Unstoppable\_72, Esperer\_73, Nerdos\_71, Leviticus\_73, SunsetPointe\_72, Ozzie\_72, Aaronocolus\_72, Caliburn\_71, Phettuccine\_72, BeardedLady\_73, Indigo\_71, EnochSoames\_76, Oliynyk\_74
- Track 4 : Hydra\_75
- Track 5 : Pablito\_75, Janus\_77, GirlDinner\_79, Animus\_76
- Track 6 : Jevington\_88, Marav\_83
- Track 7 : Amela\_74, Verse\_75
- Track 8 : Saftant\_73
- Track 9 : Conan\_78, Provolone\_76, Dexers\_73, Alsaber\_75
- Track 10 : Yosif\_77
- Track 11 : ElGato\_78

### ***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 31 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aaronocolus\_72, Alsaber\_75, Amela\_74, Animus\_76, BeardedLady\_73, Bovely\_72, BryanRecycles\_74, Caliburn\_71, Conan\_78, Dexers\_73, Eddasa\_75, ElGato\_78, EnochSoames\_76, Esperer\_73, GirlDinner\_79, Hydra\_75, Indigo\_71, Izzy\_74, Janus\_77, Jash\_74, Jevington\_88, Legacy\_72, Leviticus\_73, Marav\_83, Nerdos\_71, Oliynyk\_74, Ozzie\_72, Pablito\_75, Phettuccine\_72, Provolone\_76, Rusticus\_74, Saftant\_73, SunsetPointe\_72, Unstoppable\_72, Verse\_75, Yosif\_77,

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

- Lannister\_72,

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

-

## Summary by start number:

### Start 4:

- Found in 1 of 37 ( 2.7% ) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lannister\_72 (BD1),

### Start 5:

- Found in 37 of 37 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 31 of 32
- Called 97.3% of time when present
- Phage (with cluster) where this start called: Aaronocolus\_72 (BD1), Alsaber\_75 (BD3), Amela\_74 (BD3), Animus\_76 (BD2), BeardedLady\_73 (BD1), Bovely\_72 (BD1), BryanRecycles\_74 (BD1), Caliburn\_71 (BD1), Conan\_78 (BD3), Dexers\_73 (BD3), Eddasa\_75 (BD1), ElGato\_78 (BD3), EnochSoames\_76 (BD1), Esperer\_73 (BD1), GirlDinner\_79 (BD2), Hydra\_75 (BD1), Indigo\_71 (BD1), Izzy\_74 (BD1), Janus\_77 (BD2), Jash\_74 (BD1), Jevington\_88 (BD2), Legacy\_72 (BD1), Leviticus\_73 (BD1), Marav\_83 (BD2), Nerdos\_71 (BD1), Oliynyk\_74 (BD1), Ozzie\_72 (BD1), Pablito\_75 (BD2), Phettuccine\_72 (BD1), Provolone\_76 (BD3), Rusticus\_74 (BD1), Saftant\_73 (BD3), SunsetPointe\_72 (BD1), Unstoppable\_72 (BD1), Verse\_75 (BD3), Yosif\_77 (BD3),

## Summary by clusters:

There are 3 clusters represented in this pham: BD1, BD3, BD2,

### Info for manual annotations of cluster BD1:

- Start number 4 was manually annotated 1 time for cluster BD1.
- Start number 5 was manually annotated 20 times for cluster BD1.

### Info for manual annotations of cluster BD2:

- Start number 5 was manually annotated 4 times for cluster BD2.

### Info for manual annotations of cluster BD3:

- Start number 5 was manually annotated 7 times for cluster BD3.

## Gene Information:

Gene: Aaronocolus\_72 Start: 48130, Stop: 47984, Start Num: 5

Candidate Starts for Aaronocolus\_72:

(2, 48208), (Start: 5 @48130 has 31 MA's), (6, 48124),

Gene: Alsaber\_75 Start: 47405, Stop: 47259, Start Num: 5

Candidate Starts for Alsaber\_75:

(Start: 5 @47405 has 31 MA's),

Gene: Amela\_74 Start: 48160, Stop: 48017, Start Num: 5

Candidate Starts for Amela\_74:

(Start: 5 @48160 has 31 MA's),

Gene: Animus\_76 Start: 49223, Stop: 49089, Start Num: 5  
Candidate Starts for Animus\_76:  
(Start: 5 @49223 has 31 MA's), (8, 49136), (9, 49133),

Gene: BeardedLady\_73 Start: 48510, Stop: 48364, Start Num: 5  
Candidate Starts for BeardedLady\_73:  
(2, 48588), (Start: 5 @48510 has 31 MA's), (6, 48504),

Gene: Bovely\_72 Start: 48133, Stop: 47987, Start Num: 5  
Candidate Starts for Bovely\_72:  
(1, 48232), (Start: 5 @48133 has 31 MA's), (6, 48127),

Gene: BryanRecycles\_74 Start: 48636, Stop: 48490, Start Num: 5  
Candidate Starts for BryanRecycles\_74:  
(1, 48735), (Start: 5 @48636 has 31 MA's), (6, 48630),

Gene: Caliburn\_71 Start: 48518, Stop: 48372, Start Num: 5  
Candidate Starts for Caliburn\_71:  
(2, 48596), (Start: 5 @48518 has 31 MA's), (6, 48512),

Gene: Conan\_78 Start: 47657, Stop: 47511, Start Num: 5  
Candidate Starts for Conan\_78:  
(Start: 5 @47657 has 31 MA's),

Gene: Dexers\_73 Start: 47623, Stop: 47477, Start Num: 5  
Candidate Starts for Dexers\_73:  
(Start: 5 @47623 has 31 MA's),

Gene: Eddasa\_75 Start: 49175, Stop: 49029, Start Num: 5  
Candidate Starts for Eddasa\_75:  
(1, 49274), (Start: 5 @49175 has 31 MA's), (6, 49169),

Gene: ElGato\_78 Start: 47511, Stop: 47371, Start Num: 5  
Candidate Starts for ElGato\_78:  
(Start: 5 @47511 has 31 MA's), (6, 47505), (7, 47451),

Gene: EnochSoames\_76 Start: 48342, Stop: 48196, Start Num: 5  
Candidate Starts for EnochSoames\_76:  
(2, 48420), (Start: 5 @48342 has 31 MA's), (6, 48336),

Gene: Esperer\_73 Start: 48476, Stop: 48330, Start Num: 5  
Candidate Starts for Esperer\_73:  
(2, 48554), (Start: 5 @48476 has 31 MA's), (6, 48470),

Gene: GirlDinner\_79 Start: 48721, Stop: 48587, Start Num: 5  
Candidate Starts for GirlDinner\_79:  
(Start: 5 @48721 has 31 MA's), (8, 48634), (9, 48631),

Gene: Hydra\_75 Start: 49290, Stop: 49144, Start Num: 5  
Candidate Starts for Hydra\_75:  
(Start: 5 @49290 has 31 MA's), (6, 49284),

Gene: Indigo\_71 Start: 48126, Stop: 47980, Start Num: 5

Candidate Starts for Indigo\_71:  
(2, 48204), (Start: 5 @48126 has 31 MA's), (6, 48120),

Gene: Izzy\_74 Start: 48683, Stop: 48537, Start Num: 5  
Candidate Starts for Izzy\_74:  
(1, 48782), (Start: 5 @48683 has 31 MA's), (6, 48677),

Gene: Janus\_77 Start: 49058, Stop: 48924, Start Num: 5  
Candidate Starts for Janus\_77:  
(Start: 5 @49058 has 31 MA's), (8, 48971), (9, 48968),

Gene: Jash\_74 Start: 48636, Stop: 48490, Start Num: 5  
Candidate Starts for Jash\_74:  
(1, 48735), (Start: 5 @48636 has 31 MA's), (6, 48630),

Gene: Jevington\_88 Start: 49837, Stop: 49679, Start Num: 5  
Candidate Starts for Jevington\_88:  
(Start: 5 @49837 has 31 MA's), (10, 49705),

Gene: Lannister\_72 Start: 48875, Stop: 48714, Start Num: 4  
Candidate Starts for Lannister\_72:  
(3, 48887), (Start: 4 @48875 has 1 MA's), (Start: 5 @48860 has 31 MA's), (6, 48854),

Gene: Legacy\_72 Start: 48509, Stop: 48363, Start Num: 5  
Candidate Starts for Legacy\_72:  
(2, 48587), (Start: 5 @48509 has 31 MA's), (6, 48503),

Gene: Leviticus\_73 Start: 48663, Stop: 48517, Start Num: 5  
Candidate Starts for Leviticus\_73:  
(2, 48741), (Start: 5 @48663 has 31 MA's), (6, 48657),

Gene: Marav\_83 Start: 49863, Stop: 49705, Start Num: 5  
Candidate Starts for Marav\_83:  
(Start: 5 @49863 has 31 MA's), (10, 49731),

Gene: Nerdos\_71 Start: 48125, Stop: 47979, Start Num: 5  
Candidate Starts for Nerdos\_71:  
(2, 48203), (Start: 5 @48125 has 31 MA's), (6, 48119),

Gene: Oliynyk\_74 Start: 48545, Stop: 48399, Start Num: 5  
Candidate Starts for Oliynyk\_74:  
(2, 48623), (Start: 5 @48545 has 31 MA's), (6, 48539),

Gene: Ozzie\_72 Start: 48518, Stop: 48372, Start Num: 5  
Candidate Starts for Ozzie\_72:  
(2, 48596), (Start: 5 @48518 has 31 MA's), (6, 48512),

Gene: Pablito\_75 Start: 47878, Stop: 47744, Start Num: 5  
Candidate Starts for Pablito\_75:  
(Start: 5 @47878 has 31 MA's), (8, 47791), (9, 47788),

Gene: Phettuccine\_72 Start: 48096, Stop: 47950, Start Num: 5  
Candidate Starts for Phettuccine\_72:

(2, 48174), (Start: 5 @48096 has 31 MA's), (6, 48090),

Gene: Provolone\_76 Start: 47746, Stop: 47600, Start Num: 5

Candidate Starts for Provolone\_76:

(Start: 5 @47746 has 31 MA's),

Gene: Rusticus\_74 Start: 48636, Stop: 48490, Start Num: 5

Candidate Starts for Rusticus\_74:

(1, 48735), (Start: 5 @48636 has 31 MA's), (6, 48630),

Gene: Saftant\_73 Start: 47439, Stop: 47293, Start Num: 5

Candidate Starts for Saftant\_73:

(2, 47511), (Start: 5 @47439 has 31 MA's),

Gene: SunsetPointe\_72 Start: 48525, Stop: 48379, Start Num: 5

Candidate Starts for SunsetPointe\_72:

(2, 48603), (Start: 5 @48525 has 31 MA's), (6, 48519),

Gene: Unstoppable\_72 Start: 48124, Stop: 47978, Start Num: 5

Candidate Starts for Unstoppable\_72:

(2, 48202), (Start: 5 @48124 has 31 MA's), (6, 48118),

Gene: Verse\_75 Start: 48198, Stop: 48055, Start Num: 5

Candidate Starts for Verse\_75:

(Start: 5 @48198 has 31 MA's),

Gene: Yosif\_77 Start: 48741, Stop: 48595, Start Num: 5

Candidate Starts for Yosif\_77:

(Start: 5 @48741 has 31 MA's), (6, 48735),