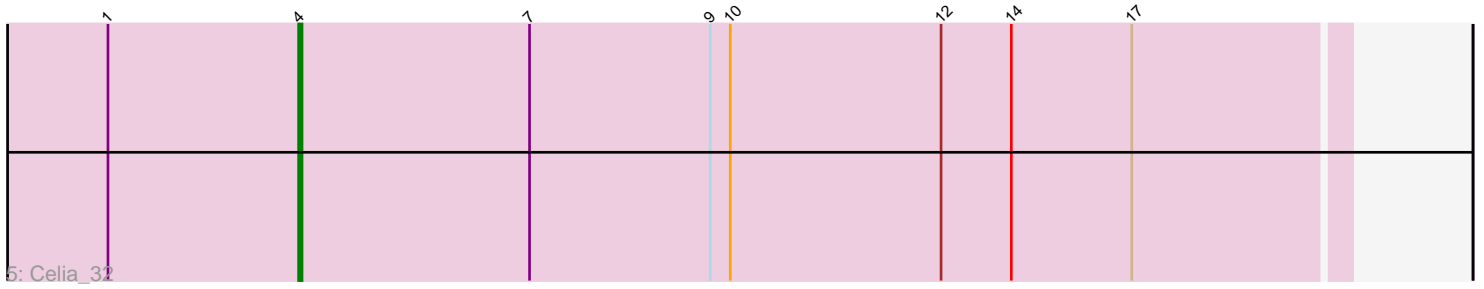
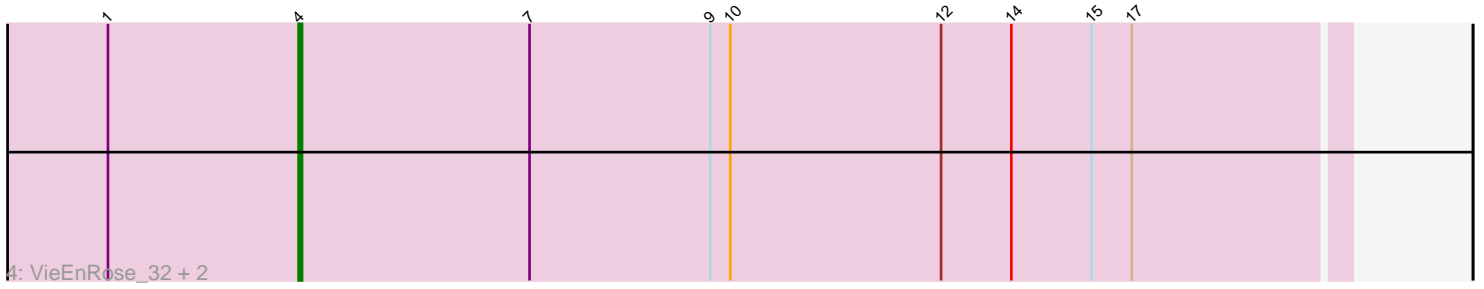
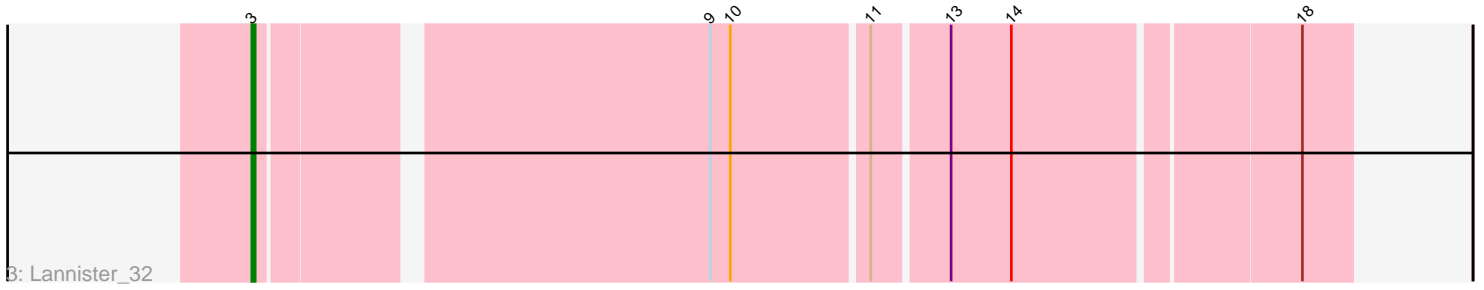
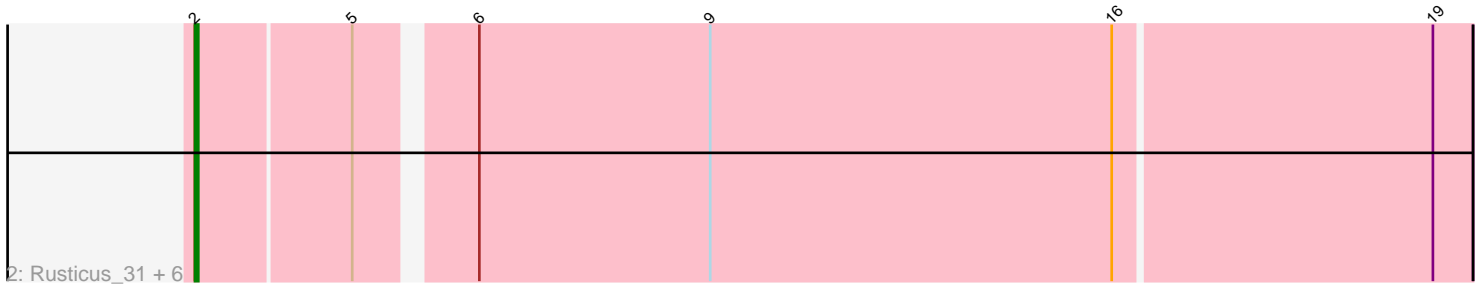
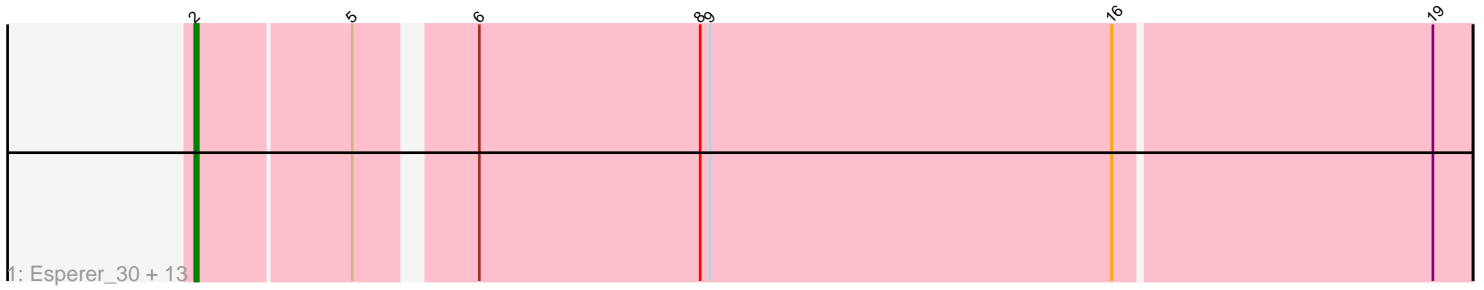


Pham 214573



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 214573 Report

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

Pham number 214573 has 26 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Esperer\_30, Bovely\_30, Legacy\_30, SunsetPointe\_30, Unstoppable\_30, Ozzie\_30, Leviticus\_30, Aaronocolus\_30, Caliburn\_30, Phettuccine\_30, Hydra\_32, Indigo\_29, Nerdos\_30, BeardedLady\_31
- Track 2 : Rusticus\_31, BryanRecycles\_31, Eddasa\_31, EnochSoames\_33, Izzy\_31, Jash\_31, Oliynyk\_31
- Track 3 : Lannister\_32
- Track 4 : VieEnRose\_32, Itza\_32, Urza\_32
- Track 5 : Celia\_32

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

The start number called the most often in the published annotations is 2, it was called in 20 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aaronocolus\_30, BeardedLady\_31, Bovely\_30, BryanRecycles\_31, Caliburn\_30, Eddasa\_31, EnochSoames\_33, Esperer\_30, Hydra\_32, Indigo\_29, Izzy\_31, Jash\_31, Legacy\_30, Leviticus\_30, Nerdos\_30, Oliynyk\_31, Ozzie\_30, Phettuccine\_30, Rusticus\_31, SunsetPointe\_30, Unstoppable\_30,

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

- 

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

- Celia\_32, Itza\_32, Lannister\_32, Urza\_32, VieEnRose\_32,

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

Start 2:

- Found in 21 of 26 ( 80.8% ) of genes in pham
- Manual Annotations of this start: 20 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aaronocolus\_30 (BD1), BeardedLady\_31 (BD1), Bovely\_30 (BD1), BryanRecycles\_31 (BD1), Caliburn\_30

(BD1), Eddasa\_31 (BD1), EnochSoames\_33 (BD1), Esperer\_30 (BD1), Hydra\_32 (BD1), Indigo\_29 (BD1), Izzy\_31 (BD1), Jash\_31 (BD1), Legacy\_30 (BD1), Leviticus\_30 (BD1), Nerdos\_30 (BD1), Oliynyk\_31 (BD1), Ozzie\_30 (BD1), Phettuccine\_30 (BD1), Rusticus\_31 (BD1), SunsetPointe\_30 (BD1), Unstoppable\_30 (BD1),

Start 3:

- Found in 1 of 26 ( 3.8% ) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lannister\_32 (BD1),

Start 4:

- Found in 4 of 26 ( 15.4% ) of genes in pham
- Manual Annotations of this start: 4 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Celia\_32 (BD6), Itza\_32 (BD6), Urza\_32 (BD6), VieEnRose\_32 (BD6),

### **Summary by clusters:**

There are 2 clusters represented in this pham: BD6, BD1,

Info for manual annotations of cluster BD1:

- Start number 2 was manually annotated 20 times for cluster BD1.
- Start number 3 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD6:

- Start number 4 was manually annotated 4 times for cluster BD6.

### **Gene Information:**

Gene: Aaronocolus\_30 Start: 23162, Stop: 23530, Start Num: 2

Candidate Starts for Aaronocolus\_30:

(Start: 2 @23162 has 20 MA's), (5, 23207), (6, 23237), (8, 23303), (9, 23306), (16, 23426), (19, 23519),

Gene: BeardedLady\_31 Start: 23415, Stop: 23783, Start Num: 2

Candidate Starts for BeardedLady\_31:

(Start: 2 @23415 has 20 MA's), (5, 23460), (6, 23490), (8, 23556), (9, 23559), (16, 23679), (19, 23772),

Gene: Bovely\_30 Start: 23168, Stop: 23536, Start Num: 2

Candidate Starts for Bovely\_30:

(Start: 2 @23168 has 20 MA's), (5, 23213), (6, 23243), (8, 23309), (9, 23312), (16, 23432), (19, 23525),

Gene: BryanRecycles\_31 Start: 23519, Stop: 23887, Start Num: 2

Candidate Starts for BryanRecycles\_31:

(Start: 2 @23519 has 20 MA's), (5, 23564), (6, 23594), (9, 23663), (16, 23783), (19, 23876),

Gene: Caliburn\_30 Start: 23145, Stop: 23513, Start Num: 2

Candidate Starts for Caliburn\_30:

(Start: 2 @23145 has 20 MA's), (5, 23190), (6, 23220), (8, 23286), (9, 23289), (16, 23409), (19, 23502),

Gene: Celia\_32 Start: 24298, Stop: 24609, Start Num: 4

Candidate Starts for Celia\_32:

(1, 24241), (Start: 4 @24298 has 4 MA's), (7, 24367), (9, 24421), (10, 24427), (12, 24490), (14, 24511), (17, 24547),

Gene: Eddasa\_31 Start: 23519, Stop: 23887, Start Num: 2

Candidate Starts for Eddasa\_31:

(Start: 2 @23519 has 20 MA's), (5, 23564), (6, 23594), (9, 23663), (16, 23783), (19, 23876),

Gene: EnochSoames\_33 Start: 23514, Stop: 23882, Start Num: 2

Candidate Starts for EnochSoames\_33:

(Start: 2 @23514 has 20 MA's), (5, 23559), (6, 23589), (9, 23658), (16, 23778), (19, 23871),

Gene: Esperer\_30 Start: 22981, Stop: 23349, Start Num: 2

Candidate Starts for Esperer\_30:

(Start: 2 @22981 has 20 MA's), (5, 23026), (6, 23056), (8, 23122), (9, 23125), (16, 23245), (19, 23338),

Gene: Hydra\_32 Start: 23693, Stop: 24061, Start Num: 2

Candidate Starts for Hydra\_32:

(Start: 2 @23693 has 20 MA's), (5, 23738), (6, 23768), (8, 23834), (9, 23837), (16, 23957), (19, 24050),

Gene: Indigo\_29 Start: 23161, Stop: 23529, Start Num: 2

Candidate Starts for Indigo\_29:

(Start: 2 @23161 has 20 MA's), (5, 23206), (6, 23236), (8, 23302), (9, 23305), (16, 23425), (19, 23518),

Gene: Itza\_32 Start: 24212, Stop: 24523, Start Num: 4

Candidate Starts for Itza\_32:

(1, 24155), (Start: 4 @24212 has 4 MA's), (7, 24281), (9, 24335), (10, 24341), (12, 24404), (14, 24425), (15, 24449), (17, 24461),

Gene: Izzy\_31 Start: 23566, Stop: 23934, Start Num: 2

Candidate Starts for Izzy\_31:

(Start: 2 @23566 has 20 MA's), (5, 23611), (6, 23641), (9, 23710), (16, 23830), (19, 23923),

Gene: Jash\_31 Start: 23519, Stop: 23887, Start Num: 2

Candidate Starts for Jash\_31:

(Start: 2 @23519 has 20 MA's), (5, 23564), (6, 23594), (9, 23663), (16, 23783), (19, 23876),

Gene: Lannister\_32 Start: 24234, Stop: 24539, Start Num: 3

Candidate Starts for Lannister\_32:

(Start: 3 @24234 has 1 MA's), (9, 24360), (10, 24366), (11, 24405), (13, 24426), (14, 24444), (18, 24525),

Gene: Legacy\_30 Start: 23136, Stop: 23504, Start Num: 2

Candidate Starts for Legacy\_30:

(Start: 2 @23136 has 20 MA's), (5, 23181), (6, 23211), (8, 23277), (9, 23280), (16, 23400), (19, 23493),

Gene: Leviticus\_30 Start: 23165, Stop: 23533, Start Num: 2

Candidate Starts for Leviticus\_30:

(Start: 2 @23165 has 20 MA's), (5, 23210), (6, 23240), (8, 23306), (9, 23309), (16, 23429), (19, 23522),

Gene: Nerdos\_30 Start: 23159, Stop: 23527, Start Num: 2

Candidate Starts for Nerdos\_30:

(Start: 2 @23159 has 20 MA's), (5, 23204), (6, 23234), (8, 23300), (9, 23303), (16, 23423), (19, 23516),

Gene: Oliynyk\_31 Start: 23519, Stop: 23887, Start Num: 2

Candidate Starts for Oliynyk\_31:

(Start: 2 @23519 has 20 MA's), (5, 23564), (6, 23594), (9, 23663), (16, 23783), (19, 23876),

Gene: Ozzie\_30 Start: 23145, Stop: 23513, Start Num: 2

Candidate Starts for Ozzie\_30:

(Start: 2 @23145 has 20 MA's), (5, 23190), (6, 23220), (8, 23286), (9, 23289), (16, 23409), (19, 23502),

Gene: Phettuccine\_30 Start: 23161, Stop: 23529, Start Num: 2

Candidate Starts for Phettuccine\_30:

(Start: 2 @23161 has 20 MA's), (5, 23206), (6, 23236), (8, 23302), (9, 23305), (16, 23425), (19, 23518),

Gene: Rusticus\_31 Start: 23519, Stop: 23887, Start Num: 2

Candidate Starts for Rusticus\_31:

(Start: 2 @23519 has 20 MA's), (5, 23564), (6, 23594), (9, 23663), (16, 23783), (19, 23876),

Gene: SunsetPointe\_30 Start: 23152, Stop: 23520, Start Num: 2

Candidate Starts for SunsetPointe\_30:

(Start: 2 @23152 has 20 MA's), (5, 23197), (6, 23227), (8, 23293), (9, 23296), (16, 23416), (19, 23509),

Gene: Unstoppable\_30 Start: 23156, Stop: 23524, Start Num: 2

Candidate Starts for Unstoppable\_30:

(Start: 2 @23156 has 20 MA's), (5, 23201), (6, 23231), (8, 23297), (9, 23300), (16, 23420), (19, 23513),

Gene: Urza\_32 Start: 24233, Stop: 24544, Start Num: 4

Candidate Starts for Urza\_32:

(1, 24176), (Start: 4 @24233 has 4 MA's), (7, 24302), (9, 24356), (10, 24362), (12, 24425), (14, 24446),  
(15, 24470), (17, 24482),

Gene: VieEnRose\_32 Start: 24310, Stop: 24621, Start Num: 4

Candidate Starts for VieEnRose\_32:

(1, 24253), (Start: 4 @24310 has 4 MA's), (7, 24379), (9, 24433), (10, 24439), (12, 24502), (14, 24523),  
(15, 24547), (17, 24559),