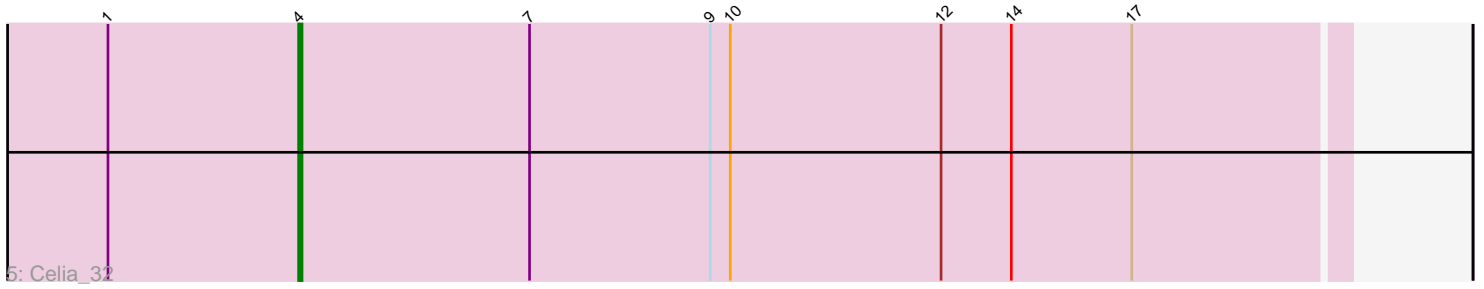
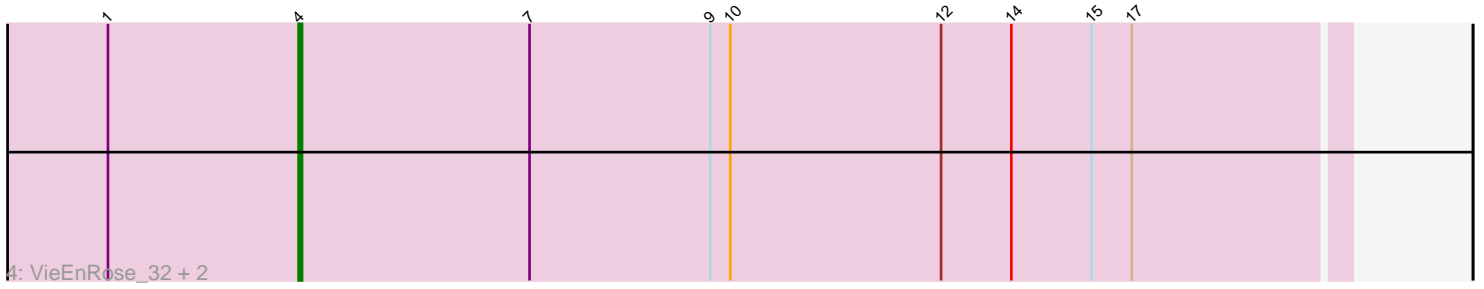
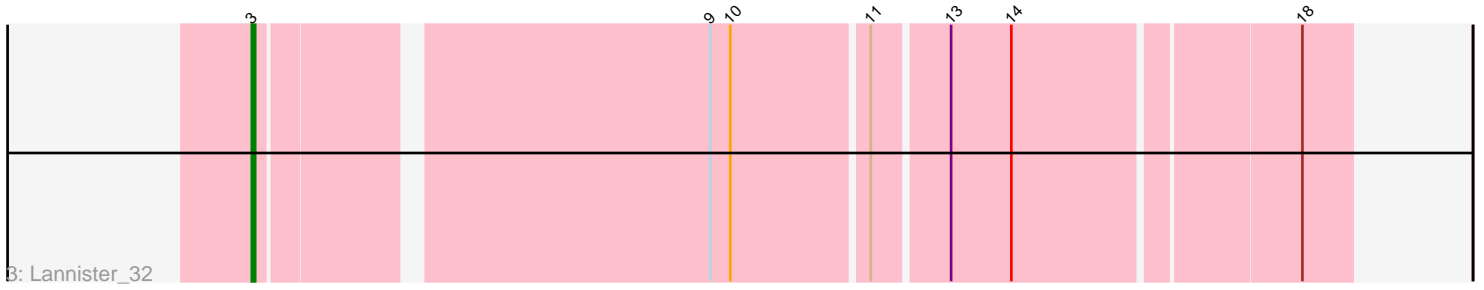
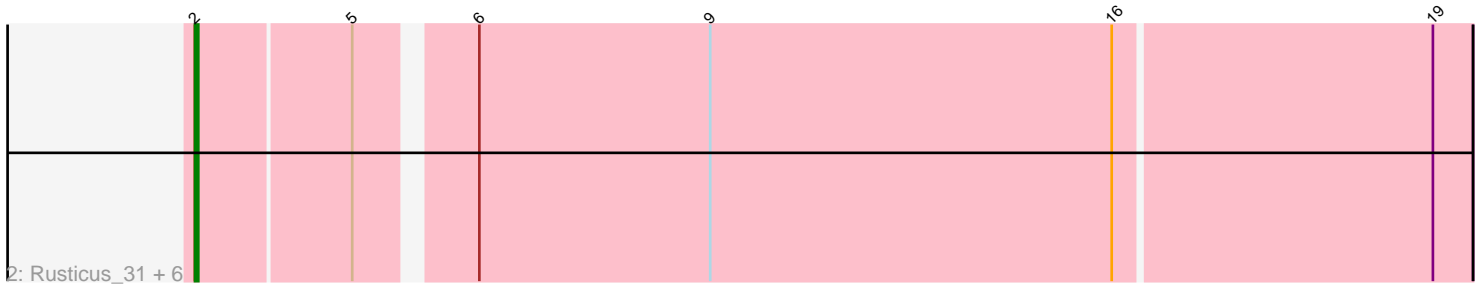
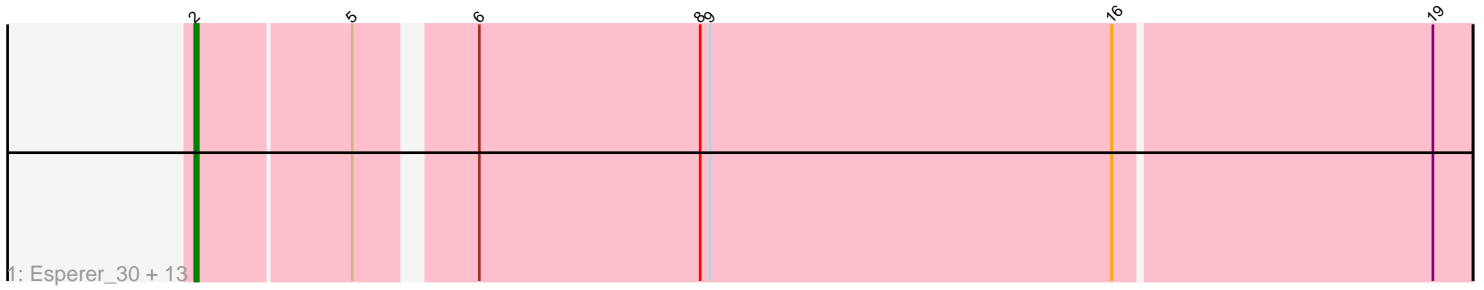


Pham 223373



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 223373 Report

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

Pham number 223373 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),