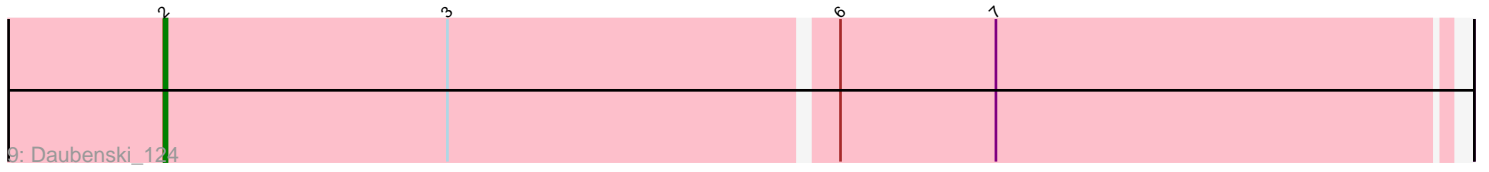
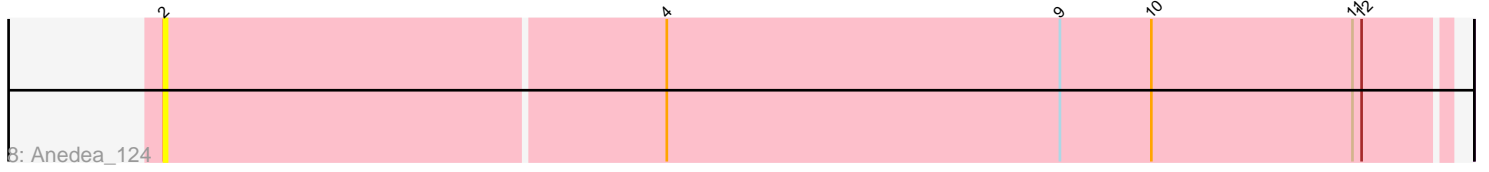
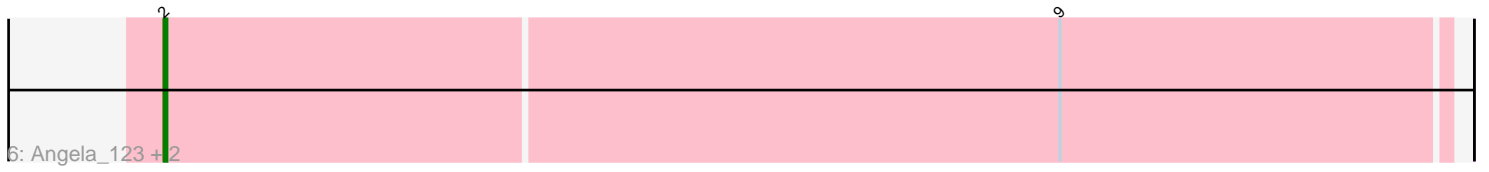
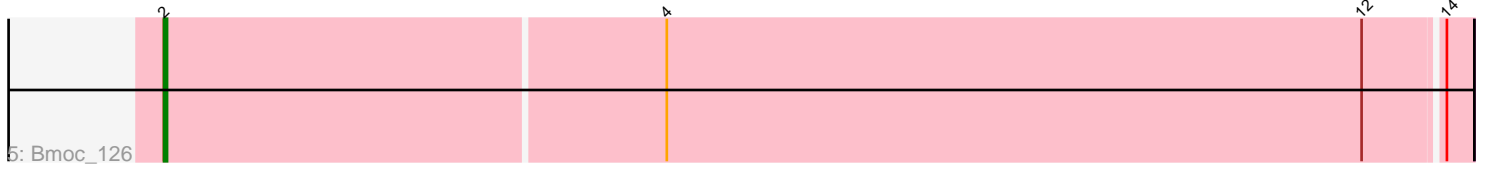
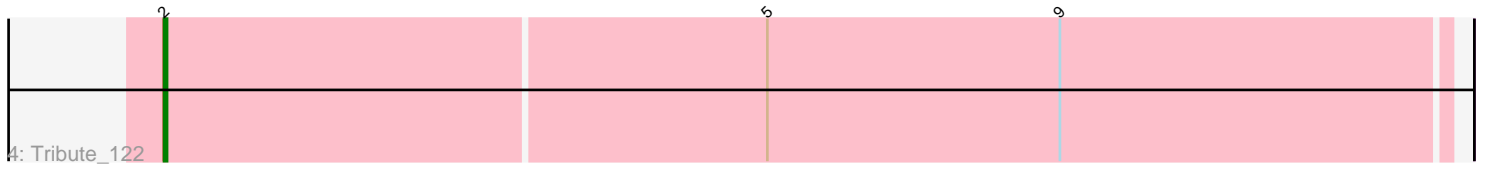
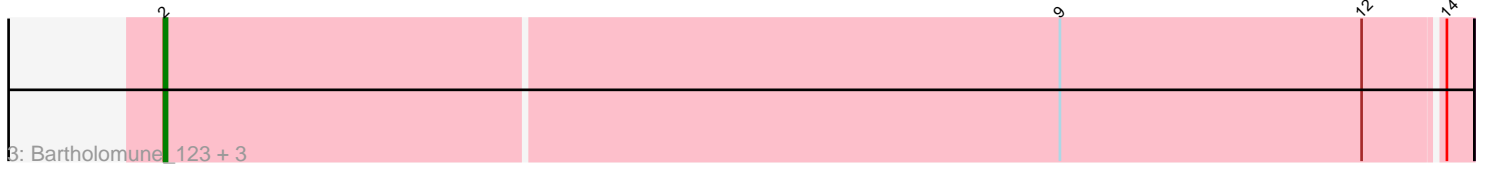
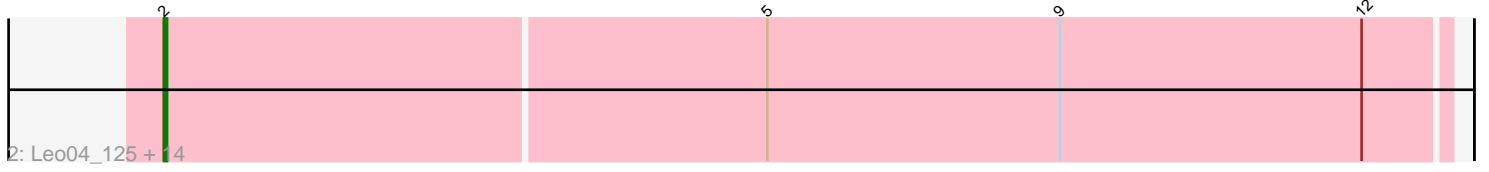
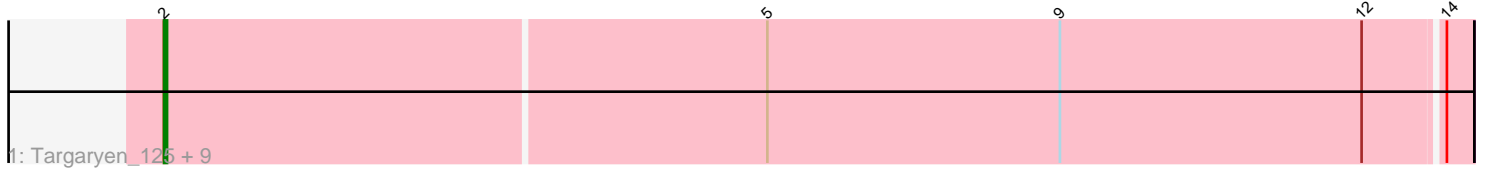


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 163761 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163761 has 37 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Targaryen\_125, Paradiddles\_119, Evy\_122, Liandry\_123, Jay2Jay\_129, Squillium\_124, NootNoot\_120, Braelyn\_124, Warpy\_128, PinkiePie\_121
- Track 2 : Leo04\_125, BlueOtter\_127, Sushi23\_123, PacManQ\_126, EGole\_127, Peebs\_122, Lululemon\_126, Cross\_124, Larnav\_131, Teutsch\_123, Samisti12\_125, Cursive\_122, Watermoore\_123, HangryHippo\_127, Pepperwood\_124
- Track 3 : Bartholomune\_123, Persimmon\_123, Navo\_125, WhereRU\_125
- Track 4 : Tribute\_122
- Track 5 : Bmoc\_126
- Track 6 : Angela\_123, MulchMansion\_122, LilMartin\_122
- Track 7 : Mildred21\_130
- Track 8 : Anedea\_124
- Track 9 : Daubenski\_124

### ***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 29 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anedea\_124, Angela\_123, Bartholomune\_123, BlueOtter\_127, Bmoc\_126, Braelyn\_124, Cross\_124, Cursive\_122, Daubenski\_124, EGole\_127, Evy\_122, HangryHippo\_127, Jay2Jay\_129, Larnav\_131, Leo04\_125, Liandry\_123, LilMartin\_122, Lululemon\_126, Mildred21\_130, MulchMansion\_122, Navo\_125, NootNoot\_120, PacManQ\_126, Paradiddles\_119, Peebs\_122, Pepperwood\_124, Persimmon\_123, PinkiePie\_121, Samisti12\_125, Squillium\_124, Sushi23\_123, Targaryen\_125, Teutsch\_123, Tribute\_122, Warpy\_128, Watermoore\_123, WhereRU\_125,

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

- 

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

-

## Summary by start number:

Start 2:

- Found in 37 of 37 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 29 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anedea\_124 (BE1), Angela\_123 (BE1), Bartholomune\_123 (BE1), BlueOtter\_127 (BE1), Bmoc\_126 (BE1), Braelyn\_124 (BE1), Cross\_124 (BE1), Cursive\_122 (BE1), Daubenski\_124 (BE1), EGole\_127 (BE1), Evy\_122 (BE1), HangryHippo\_127 (BE1), Jay2Jay\_129 (BE1), Larnav\_131 (BE1), Leo04\_125 (BE1), Liandry\_123 (BE1), LiiMartin\_122 (BE1), Lululemon\_126 (BE1), Mildred21\_130 (BE1), MulchMansion\_122 (BE1), Navo\_125 (BE1), NootNoot\_120 (BE1), PacManQ\_126 (BE1), Paradiddles\_119 (BE1), Peebs\_122 (BE1), Pepperwood\_124 (BE1), Persimmon\_123 (BE1), PinkiePie\_121 (BE1), Samisti12\_125 (BE1), Squillium\_124 (BE1), Sushi23\_123 (BE1), Targaryen\_125 (BE1), Teutsch\_123 (BE1), Tribute\_122 (BE1), Warpy\_128 (BE1), Watermoore\_123 (BE1), WhereRU\_125 (BE1),

## Summary by clusters:

There is one cluster represented in this pham: BE1

Info for manual annotations of cluster BE1:

- Start number 2 was manually annotated 29 times for cluster BE1.

### **Gene Information:**

Gene: Anedea\_124 Start: 79387, Stop: 79803, Start Num: 2

Candidate Starts for Anedea\_124:

(Start: 2 @79387 has 29 MA's), (4, 79549), (9, 79678), (10, 79708), (11, 79774), (12, 79777),

Gene: Angela\_123 Start: 79460, Stop: 79876, Start Num: 2

Candidate Starts for Angela\_123:

(Start: 2 @79460 has 29 MA's), (9, 79751),

Gene: Bartholomune\_123 Start: 79645, Stop: 80067, Start Num: 2

Candidate Starts for Bartholomune\_123:

(Start: 2 @79645 has 29 MA's), (9, 79936), (12, 80035), (14, 80059),

Gene: BlueOtter\_127 Start: 81894, Stop: 82310, Start Num: 2

Candidate Starts for BlueOtter\_127:

(Start: 2 @81894 has 29 MA's), (5, 82089), (9, 82185), (12, 82284),

Gene: Bmoc\_126 Start: 79770, Stop: 80192, Start Num: 2

Candidate Starts for Bmoc\_126:

(Start: 2 @79770 has 29 MA's), (4, 79932), (12, 80160), (14, 80184),

Gene: Braelyn\_124 Start: 80531, Stop: 80953, Start Num: 2

Candidate Starts for Braelyn\_124:

(Start: 2 @80531 has 29 MA's), (5, 80726), (9, 80822), (12, 80921), (14, 80945),

Gene: Cross\_124 Start: 81895, Stop: 82311, Start Num: 2  
Candidate Starts for Cross\_124:  
(Start: 2 @81895 has 29 MA's), (5, 82090), (9, 82186), (12, 82285),

Gene: Cursive\_122 Start: 80104, Stop: 80520, Start Num: 2  
Candidate Starts for Cursive\_122:  
(Start: 2 @80104 has 29 MA's), (5, 80299), (9, 80395), (12, 80494),

Gene: Daubenski\_124 Start: 81481, Stop: 81894, Start Num: 2  
Candidate Starts for Daubenski\_124:  
(Start: 2 @81481 has 29 MA's), (3, 81574), (6, 81697), (7, 81748),

Gene: EGole\_127 Start: 82928, Stop: 83344, Start Num: 2  
Candidate Starts for EGole\_127:  
(Start: 2 @82928 has 29 MA's), (5, 83123), (9, 83219), (12, 83318),

Gene: Evy\_122 Start: 81803, Stop: 82225, Start Num: 2  
Candidate Starts for Evy\_122:  
(Start: 2 @81803 has 29 MA's), (5, 81998), (9, 82094), (12, 82193), (14, 82217),

Gene: HangryHippo\_127 Start: 81894, Stop: 82310, Start Num: 2  
Candidate Starts for HangryHippo\_127:  
(Start: 2 @81894 has 29 MA's), (5, 82089), (9, 82185), (12, 82284),

Gene: Jay2Jay\_129 Start: 82640, Stop: 83062, Start Num: 2  
Candidate Starts for Jay2Jay\_129:  
(Start: 2 @82640 has 29 MA's), (5, 82835), (9, 82931), (12, 83030), (14, 83054),

Gene: Larnav\_131 Start: 81878, Stop: 82294, Start Num: 2  
Candidate Starts for Larnav\_131:  
(Start: 2 @81878 has 29 MA's), (5, 82073), (9, 82169), (12, 82268),

Gene: Leo04\_125 Start: 82394, Stop: 82810, Start Num: 2  
Candidate Starts for Leo04\_125:  
(Start: 2 @82394 has 29 MA's), (5, 82589), (9, 82685), (12, 82784),

Gene: Liandry\_123 Start: 80388, Stop: 80810, Start Num: 2  
Candidate Starts for Liandry\_123:  
(Start: 2 @80388 has 29 MA's), (5, 80583), (9, 80679), (12, 80778), (14, 80802),

Gene: LilMartin\_122 Start: 79365, Stop: 79781, Start Num: 2  
Candidate Starts for LilMartin\_122:  
(Start: 2 @79365 has 29 MA's), (9, 79656),

Gene: Lululemon\_126 Start: 81275, Stop: 81691, Start Num: 2  
Candidate Starts for Lululemon\_126:  
(Start: 2 @81275 has 29 MA's), (5, 81470), (9, 81566), (12, 81665),

Gene: Mildred21\_130 Start: 80335, Stop: 80751, Start Num: 2  
Candidate Starts for Mildred21\_130:  
(1, 80314), (Start: 2 @80335 has 29 MA's), (8, 80605), (13, 80743),

Gene: MulchMansion\_122 Start: 79408, Stop: 79824, Start Num: 2

Candidate Starts for MulchMansion\_122:  
(Start: 2 @79408 has 29 MA's), (9, 79699),

Gene: Navo\_125 Start: 80193, Stop: 80615, Start Num: 2  
Candidate Starts for Navo\_125:  
(Start: 2 @80193 has 29 MA's), (9, 80484), (12, 80583), (14, 80607),

Gene: NootNoot\_120 Start: 79302, Stop: 79724, Start Num: 2  
Candidate Starts for NootNoot\_120:  
(Start: 2 @79302 has 29 MA's), (5, 79497), (9, 79593), (12, 79692), (14, 79716),

Gene: PacManQ\_126 Start: 81275, Stop: 81691, Start Num: 2  
Candidate Starts for PacManQ\_126:  
(Start: 2 @81275 has 29 MA's), (5, 81470), (9, 81566), (12, 81665),

Gene: Paradiddles\_119 Start: 81204, Stop: 81626, Start Num: 2  
Candidate Starts for Paradiddles\_119:  
(Start: 2 @81204 has 29 MA's), (5, 81399), (9, 81495), (12, 81594), (14, 81618),

Gene: Peebs\_122 Start: 81691, Stop: 82107, Start Num: 2  
Candidate Starts for Peebs\_122:  
(Start: 2 @81691 has 29 MA's), (5, 81886), (9, 81982), (12, 82081),

Gene: Pepperwood\_124 Start: 81822, Stop: 82238, Start Num: 2  
Candidate Starts for Pepperwood\_124:  
(Start: 2 @81822 has 29 MA's), (5, 82017), (9, 82113), (12, 82212),

Gene: Persimmon\_123 Start: 79236, Stop: 79658, Start Num: 2  
Candidate Starts for Persimmon\_123:  
(Start: 2 @79236 has 29 MA's), (9, 79527), (12, 79626), (14, 79650),

Gene: PinkiePie\_121 Start: 80388, Stop: 80810, Start Num: 2  
Candidate Starts for PinkiePie\_121:  
(Start: 2 @80388 has 29 MA's), (5, 80583), (9, 80679), (12, 80778), (14, 80802),

Gene: Samisti12\_125 Start: 83070, Stop: 83486, Start Num: 2  
Candidate Starts for Samisti12\_125:  
(Start: 2 @83070 has 29 MA's), (5, 83265), (9, 83361), (12, 83460),

Gene: Squillium\_124 Start: 80390, Stop: 80812, Start Num: 2  
Candidate Starts for Squillium\_124:  
(Start: 2 @80390 has 29 MA's), (5, 80585), (9, 80681), (12, 80780), (14, 80804),

Gene: Sushi23\_123 Start: 82047, Stop: 82463, Start Num: 2  
Candidate Starts for Sushi23\_123:  
(Start: 2 @82047 has 29 MA's), (5, 82242), (9, 82338), (12, 82437),

Gene: Targaryen\_125 Start: 82782, Stop: 83204, Start Num: 2  
Candidate Starts for Targaryen\_125:  
(Start: 2 @82782 has 29 MA's), (5, 82977), (9, 83073), (12, 83172), (14, 83196),

Gene: Teutsch\_123 Start: 82252, Stop: 82668, Start Num: 2  
Candidate Starts for Teutsch\_123:

(Start: 2 @82252 has 29 MA's), (5, 82447), (9, 82543), (12, 82642),

Gene: Tribute\_122 Start: 81901, Stop: 82317, Start Num: 2

Candidate Starts for Tribute\_122:

(Start: 2 @81901 has 29 MA's), (5, 82096), (9, 82192),

Gene: Warpy\_128 Start: 82295, Stop: 82717, Start Num: 2

Candidate Starts for Warpy\_128:

(Start: 2 @82295 has 29 MA's), (5, 82490), (9, 82586), (12, 82685), (14, 82709),

Gene: Watermoore\_123 Start: 82466, Stop: 82882, Start Num: 2

Candidate Starts for Watermoore\_123:

(Start: 2 @82466 has 29 MA's), (5, 82661), (9, 82757), (12, 82856),

Gene: WhereRU\_125 Start: 79988, Stop: 80410, Start Num: 2

Candidate Starts for WhereRU\_125:

(Start: 2 @79988 has 29 MA's), (9, 80279), (12, 80378), (14, 80402),