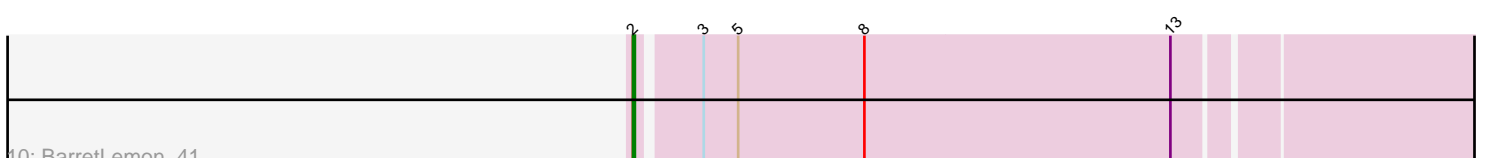
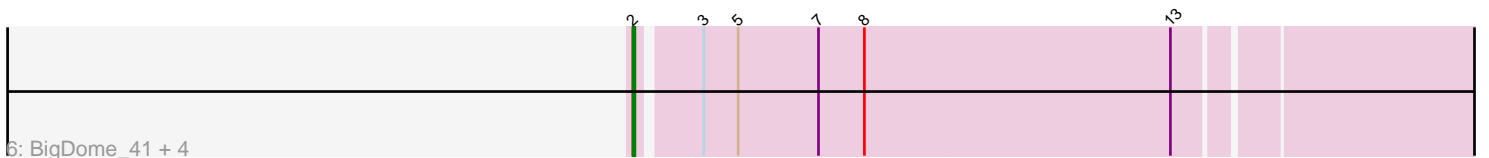
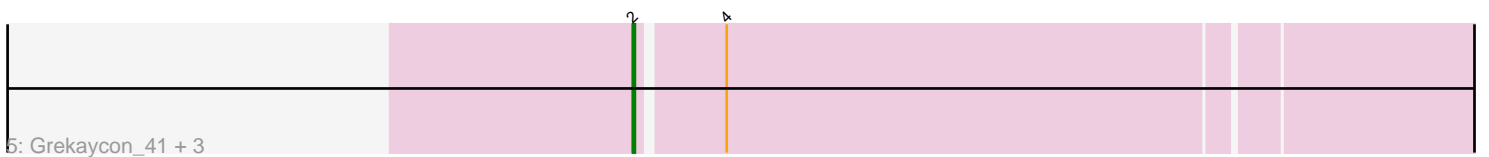
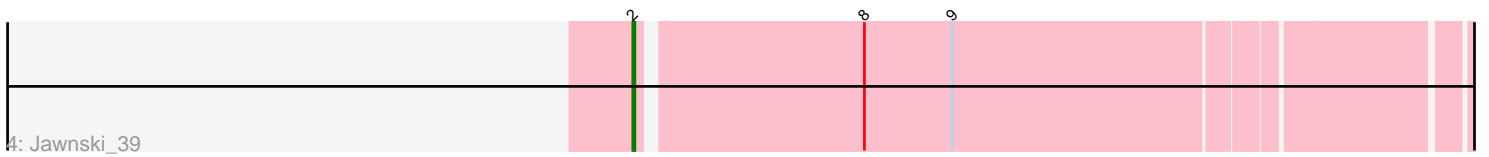
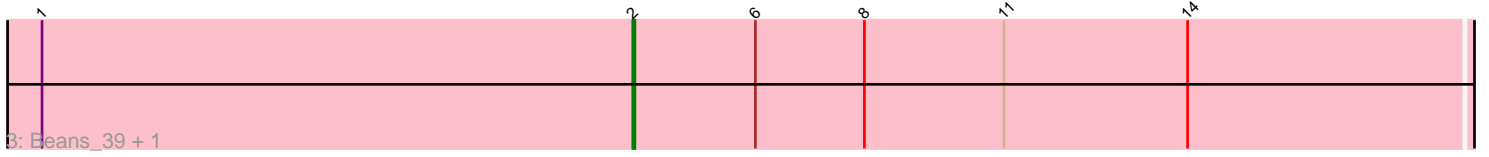
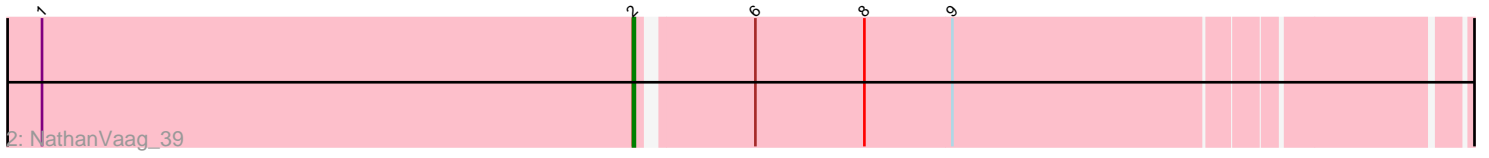
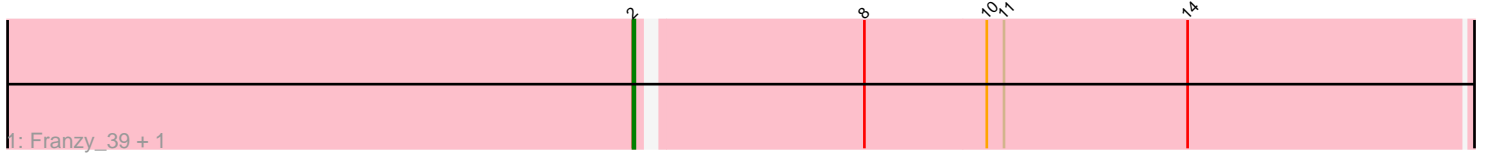


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 301751 Report

This analysis was run 06/08/26 on database version 649.

Pham number 301751 has 22 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Franzy\_39, Brent\_39
- Track 2 : NathanVaag\_39
- Track 3 : Beans\_39, Piccoletto\_39
- Track 4 : Jawnski\_39
- Track 5 : Grekaycon\_41, BossLady\_41, Pippa\_41, TaeYoung\_41
- Track 6 : BigDome\_41, Timinator\_41, LeeroyJ\_41, GravityBall\_41, StevieBAY\_41
- Track 7 : Zartrosa\_41, JKerns\_41, Sonny\_41, Jordan\_41
- Track 8 : Martha\_41
- Track 9 : Shade\_41
- Track 10 : BarretLemon\_41

### ***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 21 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BarretLemon\_41, Beans\_39, BigDome\_41, BossLady\_41, Brent\_39, Franzy\_39, GravityBall\_41, Grekaycon\_41, JKerns\_41, Jawnski\_39, Jordan\_41, LeeroyJ\_41, Martha\_41, NathanVaag\_39, Piccoletto\_39, Pippa\_41, Shade\_41, Sonny\_41, StevieBAY\_41, TaeYoung\_41, Timinator\_41, Zartrosa\_41,

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 22 of 22 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 21 of 21
- Called 100.0% of time when present

• Phage (with cluster) where this start called: BarretLemon\_41 (AO2), Beans\_39 (AO1), BigDome\_41 (AO2), BossLady\_41 (AO2), Brent\_39 (AO1), Franzy\_39 (AO1), GravityBall\_41 (AO2), Grekaycon\_41 (AO2), JKerns\_41 (AO2), Jawnski\_39 (AO1), Jordan\_41 (AO2), LeeroyJ\_41 (AO2), Martha\_41 (AO2), NathanVaag\_39 (AO1), Piccoletto\_39 (AO1), Pippa\_41 (AO2), Shade\_41 (AO2), Sonny\_41 (AO2), StevieBAY\_41 (AO2), TaeYoung\_41 (AO2), Timinator\_41 (AO2), Zartrosa\_41 (AO2),

### **Summary by clusters:**

There are 2 clusters represented in this pham: AO2, AO1,

Info for manual annotations of cluster AO1:

•Start number 2 was manually annotated 6 times for cluster AO1.

Info for manual annotations of cluster AO2:

•Start number 2 was manually annotated 15 times for cluster AO2.

### **Gene Information:**

Gene: BarretLemon\_41 Start: 33490, Stop: 34032, Start Num: 2

Candidate Starts for BarretLemon\_41:

(Start: 2 @33490 has 21 MA's), (3, 33520), (5, 33538), (8, 33604), (13, 33763),

Gene: Beans\_39 Start: 33259, Stop: 33819, Start Num: 2

Candidate Starts for Beans\_39:

(1, 32950), (Start: 2 @33259 has 21 MA's), (6, 33322), (8, 33379), (11, 33451), (14, 33547),

Gene: BigDome\_41 Start: 33514, Stop: 34056, Start Num: 2

Candidate Starts for BigDome\_41:

(Start: 2 @33514 has 21 MA's), (3, 33544), (5, 33562), (7, 33604), (8, 33628), (13, 33787),

Gene: BossLady\_41 Start: 33497, Stop: 34015, Start Num: 2

Candidate Starts for BossLady\_41:

(Start: 2 @33497 has 21 MA's), (4, 33539),

Gene: Brent\_39 Start: 33230, Stop: 33781, Start Num: 2

Candidate Starts for Brent\_39:

(Start: 2 @33230 has 21 MA's), (8, 33341), (10, 33404), (11, 33413), (14, 33509),

Gene: Franzy\_39 Start: 33246, Stop: 33797, Start Num: 2

Candidate Starts for Franzy\_39:

(Start: 2 @33246 has 21 MA's), (8, 33357), (10, 33420), (11, 33429), (14, 33525),

Gene: GravityBall\_41 Start: 33520, Stop: 34062, Start Num: 2

Candidate Starts for GravityBall\_41:

(Start: 2 @33520 has 21 MA's), (3, 33550), (5, 33568), (7, 33610), (8, 33634), (13, 33793),

Gene: Grekaycon\_41 Start: 33443, Stop: 33961, Start Num: 2

Candidate Starts for Grekaycon\_41:

(Start: 2 @33443 has 21 MA's), (4, 33485),

Gene: JKerns\_41 Start: 33516, Stop: 34010, Start Num: 2  
Candidate Starts for JKerns\_41:  
(Start: 2 @33516 has 21 MA's), (12, 33735), (15, 33906),

Gene: Jawnski\_39 Start: 33236, Stop: 33769, Start Num: 2  
Candidate Starts for Jawnski\_39:  
(Start: 2 @33236 has 21 MA's), (8, 33347), (9, 33392),

Gene: Jordan\_41 Start: 33553, Stop: 34047, Start Num: 2  
Candidate Starts for Jordan\_41:  
(Start: 2 @33553 has 21 MA's), (12, 33772), (15, 33943),

Gene: LeeroyJ\_41 Start: 33459, Stop: 34001, Start Num: 2  
Candidate Starts for LeeroyJ\_41:  
(Start: 2 @33459 has 21 MA's), (3, 33489), (5, 33507), (7, 33549), (8, 33573), (13, 33732),

Gene: Martha\_41 Start: 33444, Stop: 33938, Start Num: 2  
Candidate Starts for Martha\_41:  
(Start: 2 @33444 has 21 MA's), (12, 33663), (15, 33834),

Gene: NathanVaag\_39 Start: 33235, Stop: 33768, Start Num: 2  
Candidate Starts for NathanVaag\_39:  
(1, 32926), (Start: 2 @33235 has 21 MA's), (6, 33289), (8, 33346), (9, 33391),

Gene: Piccoletto\_39 Start: 33233, Stop: 33793, Start Num: 2  
Candidate Starts for Piccoletto\_39:  
(1, 32924), (Start: 2 @33233 has 21 MA's), (6, 33296), (8, 33353), (11, 33425), (14, 33521),

Gene: Pippa\_41 Start: 33599, Stop: 34117, Start Num: 2  
Candidate Starts for Pippa\_41:  
(Start: 2 @33599 has 21 MA's), (4, 33641),

Gene: Shade\_41 Start: 33527, Stop: 34045, Start Num: 2  
Candidate Starts for Shade\_41:  
(Start: 2 @33527 has 21 MA's), (12, 33746),

Gene: Sonny\_41 Start: 33562, Stop: 34056, Start Num: 2  
Candidate Starts for Sonny\_41:  
(Start: 2 @33562 has 21 MA's), (12, 33781), (15, 33952),

Gene: StevieBAY\_41 Start: 33520, Stop: 34062, Start Num: 2  
Candidate Starts for StevieBAY\_41:  
(Start: 2 @33520 has 21 MA's), (3, 33550), (5, 33568), (7, 33610), (8, 33634), (13, 33793),

Gene: TaeYoung\_41 Start: 33444, Stop: 33962, Start Num: 2  
Candidate Starts for TaeYoung\_41:  
(Start: 2 @33444 has 21 MA's), (4, 33486),

Gene: Timinator\_41 Start: 33459, Stop: 34001, Start Num: 2  
Candidate Starts for Timinator\_41:  
(Start: 2 @33459 has 21 MA's), (3, 33489), (5, 33507), (7, 33549), (8, 33573), (13, 33732),

Gene: Zartrosa\_41 Start: 33469, Stop: 33963, Start Num: 2

Candidate Starts for Zartrosa\_41:  
(Start: 2 @33469 has 21 MA's), (12, 33688), (15, 33859),