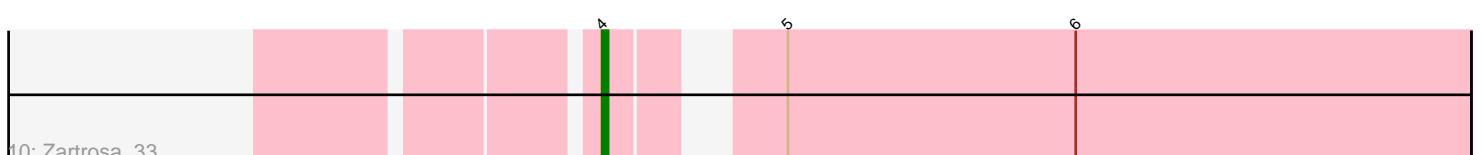
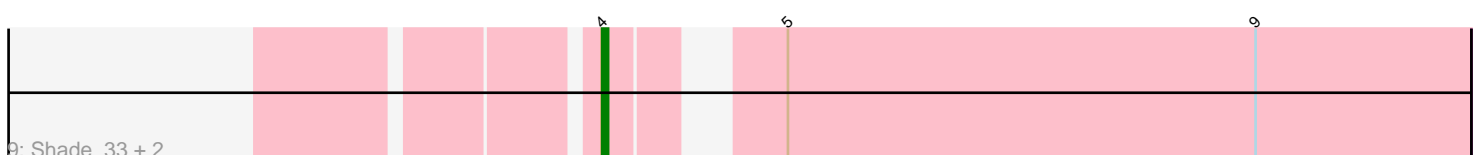
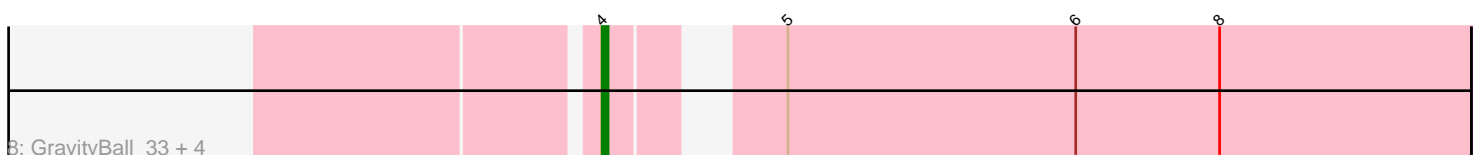
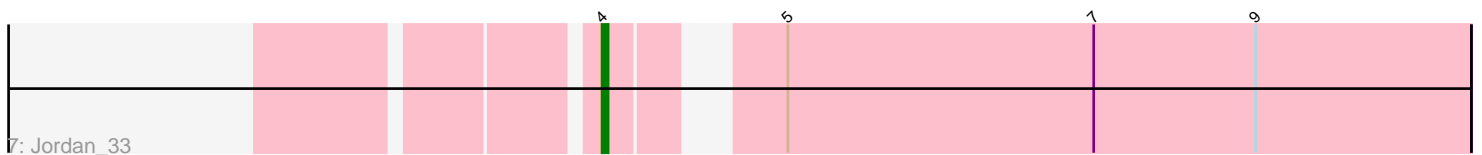
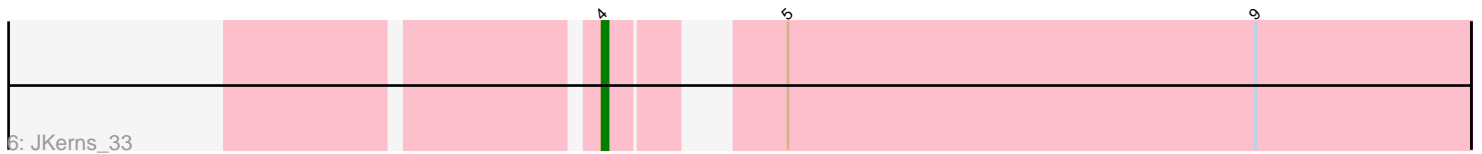
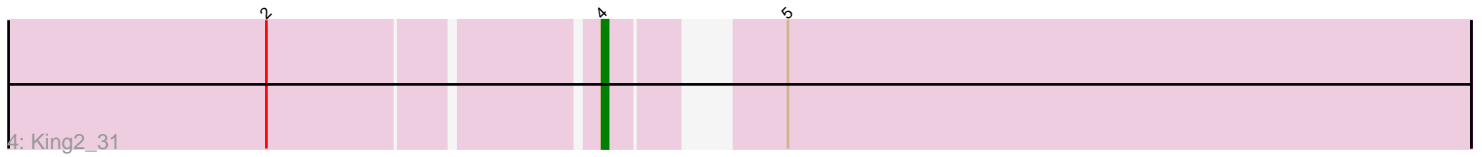
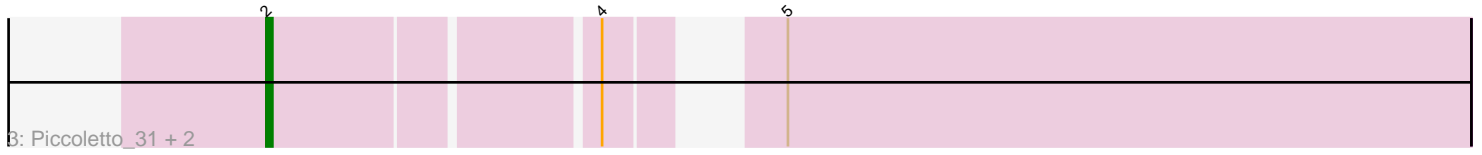
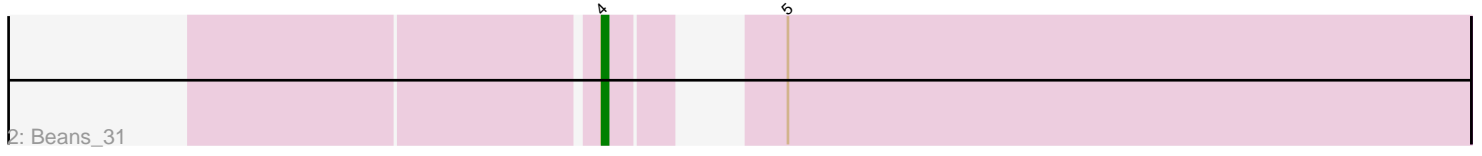


# Pham 162173



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 162173 Report

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

Pham number 162173 has 21 members, 1 are drafts.

Phages represented in each track:

- Track 1 : EastWest\_34
- Track 2 : Beans\_31
- Track 3 : Piccoletto\_31, Jawnski\_31, NathanVaag\_31
- Track 4 : King2\_31
- Track 5 : TaeYoung\_33, Grekaycon\_33, BossLady\_33, Martha\_33
- Track 6 : JKerns\_33
- Track 7 : Jordan\_33
- Track 8 : GravityBall\_33, StevieBAY\_33, LeeroyJ\_33, BarretLemon\_33, Timinator\_33
- Track 9 : Shade\_33, Pippa\_33, Sonny\_33
- Track 10 : Zartrosa\_33

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

The start number called the most often in the published annotations is 4, it was called in 16 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BarretLemon\_33, Beans\_31, BossLady\_33, GravityBall\_33, Grekaycon\_33, JKerns\_33, Jordan\_33, King2\_31, LeeroyJ\_33, Martha\_33, Pippa\_33, Shade\_33, Sonny\_33, StevieBAY\_33, TaeYoung\_33, Timinator\_33, Zartrosa\_33,

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

- Jawnski\_31, NathanVaag\_31, Piccoletto\_31,

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

- EastWest\_34,

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

Start 2:

- Found in 4 of 21 ( 19.0% ) of genes in pham
- Manual Annotations of this start: 3 of 20
- Called 75.0% of time when present

- Phage (with cluster) where this start called: Jawnski\_31 (AO1), NathanVaag\_31 (AO1), Piccoletto\_31 (AO1),

Start 3:

- Found in 1 of 21 ( 4.8% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EastWest\_34 (AO),

Start 4:

- Found in 20 of 21 ( 95.2% ) of genes in pham
- Manual Annotations of this start: 16 of 20
- Called 85.0% of time when present
- Phage (with cluster) where this start called: BarretLemon\_33 (AO2), Beans\_31 (AO1), BossLady\_33 (AO2), GravityBall\_33 (AO2), Grekaycon\_33 (AO2), JKerns\_33 (AO2), Jordan\_33 (AO2), King2\_31 (AO1), LeeroyJ\_33 (AO2), Martha\_33 (AO2), Pippa\_33 (AO2), Shade\_33 (AO2), Sonny\_33 (AO2), StevieBAY\_33 (AO2), TaeYoung\_33 (AO2), Timinator\_33 (AO2), Zartrosa\_33 (AO2),

**Summary by clusters:**

There are 3 clusters represented in this pham: AO, AO2, AO1,

Info for manual annotations of cluster AO:

- Start number 3 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:

- Start number 2 was manually annotated 3 times for cluster AO1.
- Start number 4 was manually annotated 2 times for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 4 was manually annotated 14 times for cluster AO2.

**Gene Information:**

Gene: BarretLemon\_33 Start: 28674, Stop: 28808, Start Num: 4

Candidate Starts for BarretLemon\_33:

(Start: 4 @28674 has 16 MA's), (5, 28695), (6, 28743), (8, 28767),

Gene: Beans\_31 Start: 28364, Stop: 28495, Start Num: 4

Candidate Starts for Beans\_31:

(Start: 4 @28364 has 16 MA's), (5, 28382),

Gene: BossLady\_33 Start: 28643, Stop: 28777, Start Num: 4

Candidate Starts for BossLady\_33:

(Start: 4 @28643 has 16 MA's), (5, 28664), (9, 28742),

Gene: EastWest\_34 Start: 27868, Stop: 28017, Start Num: 3

Candidate Starts for EastWest\_34:

(1, 27805), (Start: 3 @27868 has 1 MA's), (5, 27904), (10, 27994),

Gene: GravityBall\_33 Start: 28673, Stop: 28807, Start Num: 4  
Candidate Starts for GravityBall\_33:  
(Start: 4 @28673 has 16 MA's), (5, 28694), (6, 28742), (8, 28766),

Gene: Grekaycon\_33 Start: 28589, Stop: 28723, Start Num: 4  
Candidate Starts for Grekaycon\_33:  
(Start: 4 @28589 has 16 MA's), (5, 28610), (9, 28688),

Gene: JKerns\_33 Start: 28535, Stop: 28669, Start Num: 4  
Candidate Starts for JKerns\_33:  
(Start: 4 @28535 has 16 MA's), (5, 28556), (9, 28634),

Gene: Jawnski\_31 Start: 28282, Stop: 28464, Start Num: 2  
Candidate Starts for Jawnski\_31:  
(Start: 2 @28282 has 3 MA's), (Start: 4 @28333 has 16 MA's), (5, 28351),

Gene: Jordan\_33 Start: 28585, Stop: 28719, Start Num: 4  
Candidate Starts for Jordan\_33:  
(Start: 4 @28585 has 16 MA's), (5, 28606), (7, 28657), (9, 28684),

Gene: King2\_31 Start: 28319, Stop: 28453, Start Num: 4  
Candidate Starts for King2\_31:  
(Start: 2 @28268 has 3 MA's), (Start: 4 @28319 has 16 MA's), (5, 28340),

Gene: LeeroyJ\_33 Start: 28673, Stop: 28807, Start Num: 4  
Candidate Starts for LeeroyJ\_33:  
(Start: 4 @28673 has 16 MA's), (5, 28694), (6, 28742), (8, 28766),

Gene: Martha\_33 Start: 28590, Stop: 28724, Start Num: 4  
Candidate Starts for Martha\_33:  
(Start: 4 @28590 has 16 MA's), (5, 28611), (9, 28689),

Gene: NathanVaag\_31 Start: 28285, Stop: 28467, Start Num: 2  
Candidate Starts for NathanVaag\_31:  
(Start: 2 @28285 has 3 MA's), (Start: 4 @28336 has 16 MA's), (5, 28354),

Gene: Piccoletto\_31 Start: 28286, Stop: 28468, Start Num: 2  
Candidate Starts for Piccoletto\_31:  
(Start: 2 @28286 has 3 MA's), (Start: 4 @28337 has 16 MA's), (5, 28355),

Gene: Pippa\_33 Start: 28714, Stop: 28848, Start Num: 4  
Candidate Starts for Pippa\_33:  
(Start: 4 @28714 has 16 MA's), (5, 28735), (9, 28813),

Gene: Shade\_33 Start: 28555, Stop: 28689, Start Num: 4  
Candidate Starts for Shade\_33:  
(Start: 4 @28555 has 16 MA's), (5, 28576), (9, 28654),

Gene: Sonny\_33 Start: 28585, Stop: 28719, Start Num: 4  
Candidate Starts for Sonny\_33:  
(Start: 4 @28585 has 16 MA's), (5, 28606), (9, 28684),

Gene: StevieBAY\_33 Start: 28673, Stop: 28807, Start Num: 4

Candidate Starts for StevieBAY\_33:

(Start: 4 @28673 has 16 MA's), (5, 28694), (6, 28742), (8, 28766),

Gene: TaeYoung\_33 Start: 28590, Stop: 28724, Start Num: 4

Candidate Starts for TaeYoung\_33:

(Start: 4 @28590 has 16 MA's), (5, 28611), (9, 28689),

Gene: Timinator\_33 Start: 28673, Stop: 28807, Start Num: 4

Candidate Starts for Timinator\_33:

(Start: 4 @28673 has 16 MA's), (5, 28694), (6, 28742), (8, 28766),

Gene: Zartrosa\_33 Start: 28498, Stop: 28632, Start Num: 4

Candidate Starts for Zartrosa\_33:

(Start: 4 @28498 has 16 MA's), (5, 28519), (6, 28567),