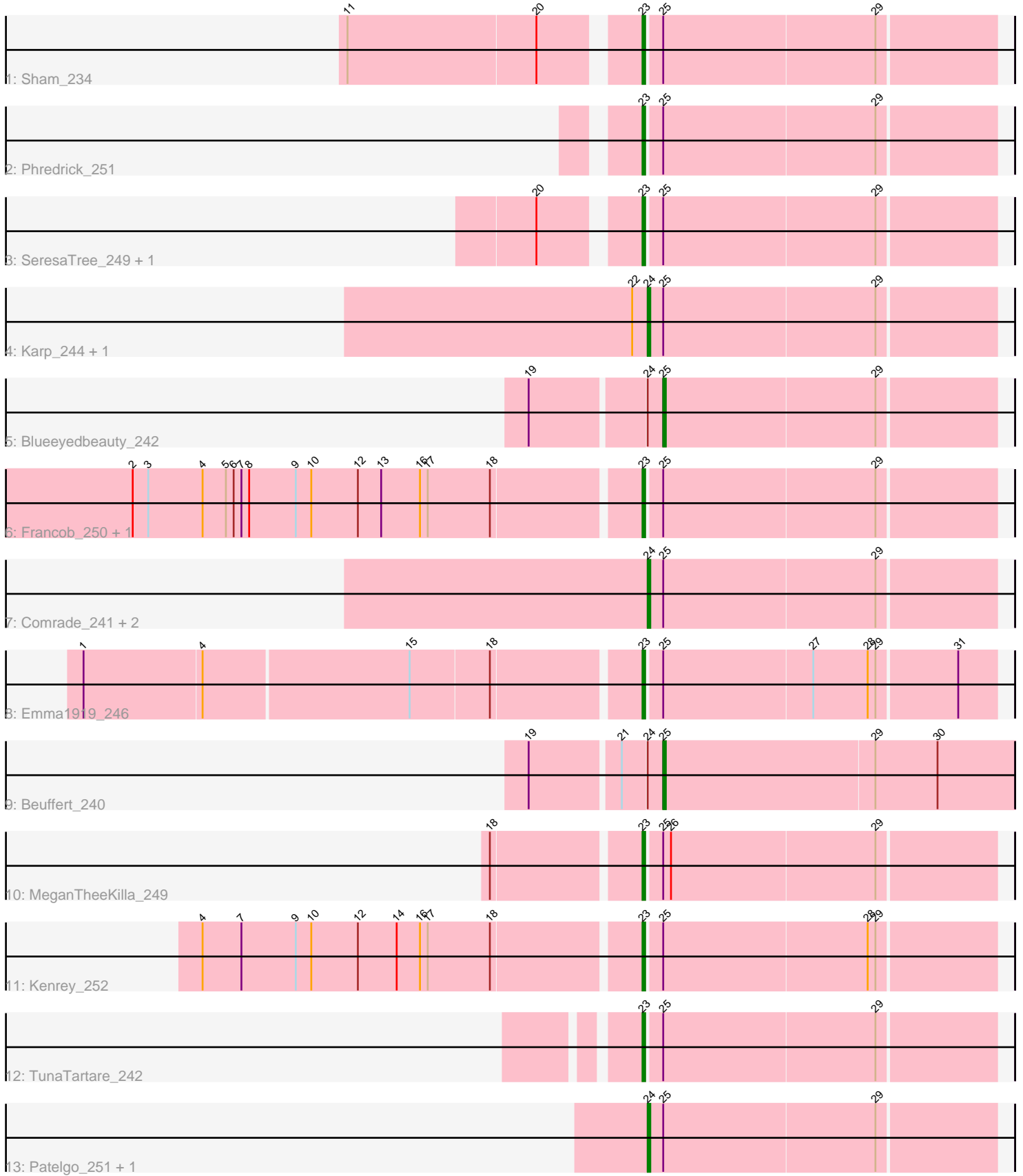


# Pham 4733



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 4733 Report

This analysis was run 07/09/24 on database version 566.

Pham number 4733 has 19 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Sham\_234
- Track 2 : Phredrick\_251
- Track 3 : SeresaTree\_249, Faust\_245
- Track 4 : Karp\_244, SparkleGoddess\_246
- Track 5 : Blueeyedbeauty\_242
- Track 6 : Francob\_250, Gilson\_246
- Track 7 : Comrade\_241, Belfort\_245, Stigma\_243
- Track 8 : Emma1919\_246
- Track 9 : Beuffert\_240
- Track 10 : MeganTheeKilla\_249
- Track 11 : Kenrey\_252
- Track 12 : TunaTartare\_242
- Track 13 : Patelgo\_251, Moab\_250

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

The start number called the most often in the published annotations is 23, it was called in 9 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Emma1919\_246, Faust\_245, Francob\_250, Gilson\_246, Kenrey\_252, MeganTheeKilla\_249, Phredrick\_251, SeresaTree\_249, Sham\_234, TunaTartare\_242,

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

- 

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

- Belfort\_245, Beuffert\_240, Blueeyedbeauty\_242, Comrade\_241, Karp\_244, Moab\_250, Patelgo\_251, SparkleGoddess\_246, Stigma\_243,

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

Start 23:

- Found in 10 of 19 ( 52.6% ) of genes in pham
- Manual Annotations of this start: 9 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emma1919\_246 (BK1), Faust\_245 (BK1), Francob\_250 (BK1), Gilson\_246 (BK1), Kenrey\_252 (BK1), MeganTheeKilla\_249 (BK1), Phredrick\_251 (BK1), SeresaTree\_249 (BK1), Sham\_234 (BK1), TunaTartare\_242 (BK1),

#### Start 24:

- Found in 9 of 19 ( 47.4% ) of genes in pham
- Manual Annotations of this start: 7 of 18
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Belfort\_245 (BK1), Comrade\_241 (BK1), Karp\_244 (BK1), Moab\_250 (BK1), Patelgo\_251 (BK1), SparkleGoddess\_246 (BK1), Stigma\_243 (BK1),

#### Start 25:

- Found in 19 of 19 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 10.5% of time when present
- Phage (with cluster) where this start called: Beuffert\_240 (BK1), Blueeyedbeauty\_242 (BK1),

### Summary by clusters:

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:

- Start number 23 was manually annotated 9 times for cluster BK1.
- Start number 24 was manually annotated 7 times for cluster BK1.
- Start number 25 was manually annotated 2 times for cluster BK1.

### **Gene Information:**

Gene: Belfort\_245 Start: 117535, Stop: 117666, Start Num: 24

Candidate Starts for Belfort\_245:

(Start: 24 @117535 has 7 MA's), (Start: 25 @117541 has 2 MA's), (29, 117622),

Gene: Beuffert\_240 Start: 116682, Stop: 116816, Start Num: 25

Candidate Starts for Beuffert\_240:

(19, 116634), (21, 116667), (Start: 24 @116676 has 7 MA's), (Start: 25 @116682 has 2 MA's), (29, 116763), (30, 116787),

Gene: Blueeyedbeauty\_242 Start: 116508, Stop: 116633, Start Num: 25

Candidate Starts for Blueeyedbeauty\_242:

(19, 116460), (Start: 24 @116502 has 7 MA's), (Start: 25 @116508 has 2 MA's), (29, 116589),

Gene: Comrade\_241 Start: 117759, Stop: 117890, Start Num: 24

Candidate Starts for Comrade\_241:

(Start: 24 @117759 has 7 MA's), (Start: 25 @117765 has 2 MA's), (29, 117846),

Gene: Emma1919\_246 Start: 116032, Stop: 116163, Start Num: 23  
Candidate Starts for Emma1919\_246:  
(1, 115825), (4, 115870), (15, 115948), (18, 115978), (Start: 23 @116032 has 9 MA's), (Start: 25 @116038 has 2 MA's), (27, 116095), (28, 116116), (29, 116119), (31, 116149),

Gene: Faust\_245 Start: 118504, Stop: 118635, Start Num: 23  
Candidate Starts for Faust\_245:  
(20, 118471), (Start: 23 @118504 has 9 MA's), (Start: 25 @118510 has 2 MA's), (29, 118591),

Gene: Francob\_250 Start: 117637, Stop: 117768, Start Num: 23  
Candidate Starts for Francob\_250:  
(2, 117445), (3, 117451), (4, 117472), (5, 117481), (6, 117484), (7, 117487), (8, 117490), (9, 117508), (10, 117514), (12, 117532), (13, 117541), (16, 117556), (17, 117559), (18, 117583), (Start: 23 @117637 has 9 MA's), (Start: 25 @117643 has 2 MA's), (29, 117724),

Gene: Gilson\_246 Start: 116902, Stop: 117033, Start Num: 23  
Candidate Starts for Gilson\_246:  
(2, 116710), (3, 116716), (4, 116737), (5, 116746), (6, 116749), (7, 116752), (8, 116755), (9, 116773), (10, 116779), (12, 116797), (13, 116806), (16, 116821), (17, 116824), (18, 116848), (Start: 23 @116902 has 9 MA's), (Start: 25 @116908 has 2 MA's), (29, 116989),

Gene: Karp\_244 Start: 119133, Stop: 119264, Start Num: 24  
Candidate Starts for Karp\_244:  
(22, 119127), (Start: 24 @119133 has 7 MA's), (Start: 25 @119139 has 2 MA's), (29, 119220),

Gene: Kenrey\_252 Start: 117850, Stop: 117981, Start Num: 23  
Candidate Starts for Kenrey\_252:  
(4, 117685), (7, 117700), (9, 117721), (10, 117727), (12, 117745), (14, 117760), (16, 117769), (17, 117772), (18, 117796), (Start: 23 @117850 has 9 MA's), (Start: 25 @117856 has 2 MA's), (28, 117934), (29, 117937),

Gene: MeganTheeKilla\_249 Start: 116859, Stop: 116990, Start Num: 23  
Candidate Starts for MeganTheeKilla\_249:  
(18, 116805), (Start: 23 @116859 has 9 MA's), (Start: 25 @116865 has 2 MA's), (26, 116868), (29, 116946),

Gene: Moab\_250 Start: 119511, Stop: 119642, Start Num: 24  
Candidate Starts for Moab\_250:  
(Start: 24 @119511 has 7 MA's), (Start: 25 @119517 has 2 MA's), (29, 119598),

Gene: Patelgo\_251 Start: 120192, Stop: 120323, Start Num: 24  
Candidate Starts for Patelgo\_251:  
(Start: 24 @120192 has 7 MA's), (Start: 25 @120198 has 2 MA's), (29, 120279),

Gene: Phredrick\_251 Start: 116768, Stop: 116899, Start Num: 23  
Candidate Starts for Phredrick\_251:  
(Start: 23 @116768 has 9 MA's), (Start: 25 @116774 has 2 MA's), (29, 116855),

Gene: SeresaTree\_249 Start: 118729, Stop: 118860, Start Num: 23  
Candidate Starts for SeresaTree\_249:  
(20, 118696), (Start: 23 @118729 has 9 MA's), (Start: 25 @118735 has 2 MA's), (29, 118816),

Gene: Sham\_234 Start: 118071, Stop: 118202, Start Num: 23

Candidate Starts for Sham\_234:

(11, 117966), (20, 118038), (Start: 23 @118071 has 9 MA's), (Start: 25 @118077 has 2 MA's), (29, 118158),

Gene: SparkleGoddess\_246 Start: 118407, Stop: 118538, Start Num: 24

Candidate Starts for SparkleGoddess\_246:

(22, 118401), (Start: 24 @118407 has 7 MA's), (Start: 25 @118413 has 2 MA's), (29, 118494),

Gene: Stigma\_243 Start: 118120, Stop: 118251, Start Num: 24

Candidate Starts for Stigma\_243:

(Start: 24 @118120 has 7 MA's), (Start: 25 @118126 has 2 MA's), (29, 118207),

Gene: TunaTartare\_242 Start: 119936, Stop: 120067, Start Num: 23

Candidate Starts for TunaTartare\_242:

(Start: 23 @119936 has 9 MA's), (Start: 25 @119942 has 2 MA's), (29, 120023),