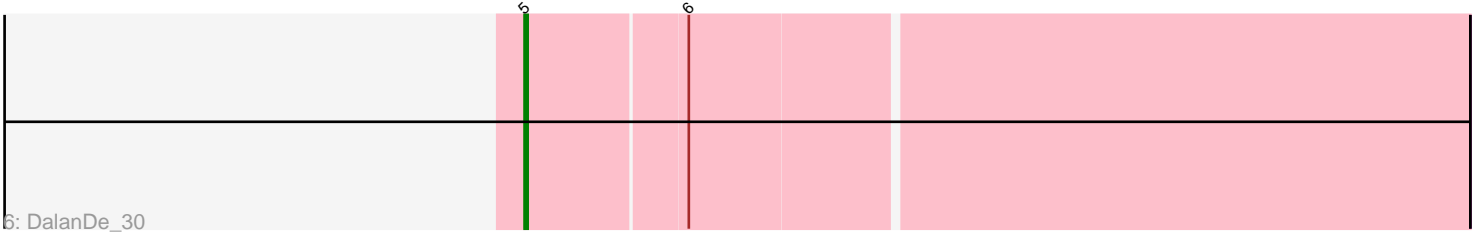
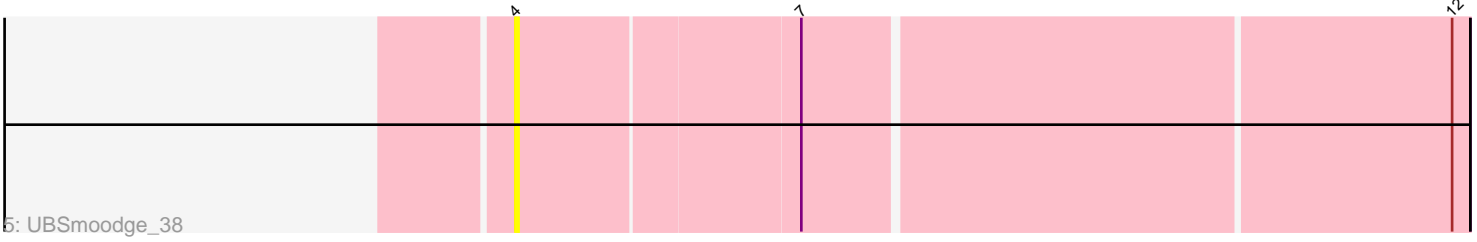
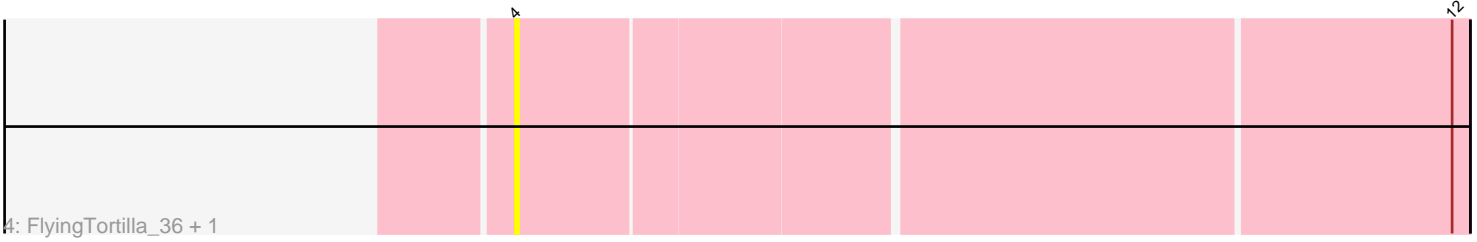
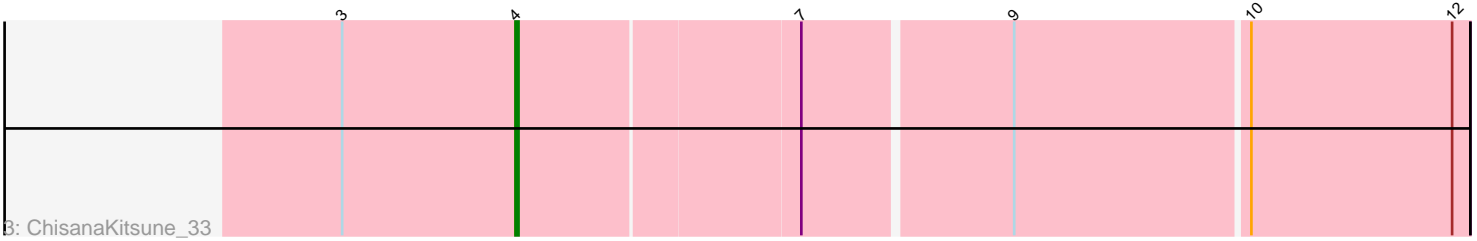
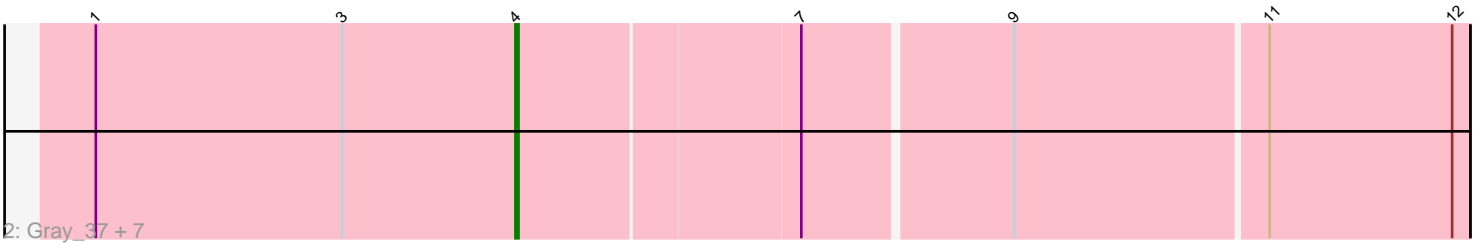
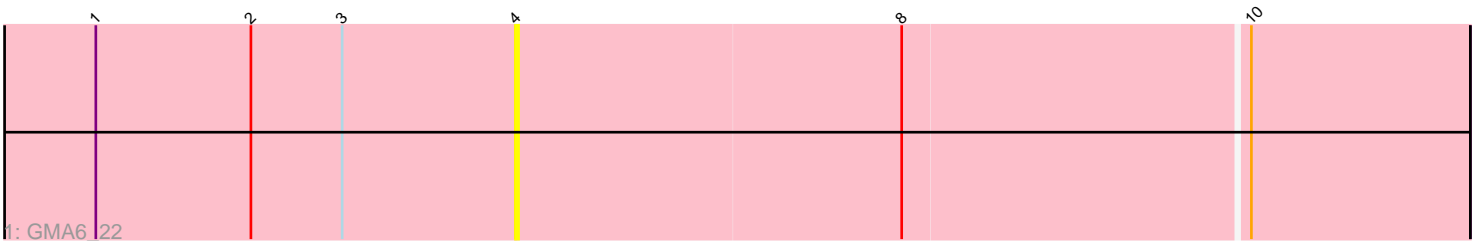


Pham 87361



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 87361 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87361 has 14 members, 7 are drafts.

Phages represented in each track:

- Track 1 : GMA6\_22
- Track 2 : Gray\_37, Alok\_35, Kabocha\_38, Pakusa\_35, Chidiebere\_37, Schomber\_36, Hanem\_37, Oogie\_37
- Track 3 : ChisanaKitsune\_33
- Track 4 : FlyingTortilla\_36, ScarletRaider\_36
- Track 5 : UBSmoodge\_38
- Track 6 : DalanDe\_30

### ***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 6 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alok\_35, Chidiebere\_37, ChisanaKitsune\_33, FlyingTortilla\_36, GMA6\_22, Gray\_37, Hanem\_37, Kabocha\_38, Oogie\_37, Pakusa\_35, ScarletRaider\_36, Schomber\_36, UBSmoodge\_38,

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

- 

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

- DalanDe\_30,

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

Start 4:

- Found in 13 of 14 ( 92.9% ) of genes in pham
- Manual Annotations of this start: 6 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alok\_35 (DQ), Chidiebere\_37 (DQ), ChisanaKitsune\_33 (DQ), FlyingTortilla\_36 (DQ), GMA6\_22 (DQ), Gray\_37 (DQ), Hanem\_37 (DQ), Kabocha\_38 (DQ), Oogie\_37 (DQ), Pakusa\_35 (DQ), ScarletRaider\_36 (DQ), Schomber\_36 (DQ), UBSmoodge\_38 (DQ),

Start 5:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DalanDe\_30 (DQ),

### **Summary by clusters:**

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:

- Start number 4 was manually annotated 6 times for cluster DQ.
- Start number 5 was manually annotated 1 time for cluster DQ.

### **Gene Information:**

Gene: Alok\_i\_35 Start: 26941, Stop: 27243, Start Num: 4

Candidate Starts for Alok\_i\_35:

(1, 26803), (3, 26884), (Start: 4 @26941 has 6 MA's), (7, 27031), (9, 27097), (11, 27178), (12, 27238),

Gene: Chidiebere\_37 Start: 26941, Stop: 27243, Start Num: 4

Candidate Starts for Chidiebere\_37:

(1, 26803), (3, 26884), (Start: 4 @26941 has 6 MA's), (7, 27031), (9, 27097), (11, 27178), (12, 27238),

Gene: ChisanaKitsune\_33 Start: 25734, Stop: 26036, Start Num: 4

Candidate Starts for ChisanaKitsune\_33:

(3, 25677), (Start: 4 @25734 has 6 MA's), (7, 25824), (9, 25890), (10, 25965), (12, 26031),

Gene: DalanDe\_30 Start: 29173, Stop: 29475, Start Num: 5

Candidate Starts for DalanDe\_30:

(Start: 5 @29173 has 1 MA's), (6, 29224),

Gene: FlyingTortilla\_36 Start: 29798, Stop: 30100, Start Num: 4

Candidate Starts for FlyingTortilla\_36:

(Start: 4 @29798 has 6 MA's), (12, 30095),

Gene: GMA6\_22 Start: 18785, Stop: 19093, Start Num: 4

Candidate Starts for GMA6\_22:

(1, 18647), (2, 18698), (3, 18728), (Start: 4 @18785 has 6 MA's), (8, 18911), (10, 19022),

Gene: Gray\_37 Start: 26941, Stop: 27243, Start Num: 4

Candidate Starts for Gray\_37:

(1, 26803), (3, 26884), (Start: 4 @26941 has 6 MA's), (7, 27031), (9, 27097), (11, 27178), (12, 27238),

Gene: Hanem\_37 Start: 26941, Stop: 27243, Start Num: 4

Candidate Starts for Hanem\_37:

(1, 26803), (3, 26884), (Start: 4 @26941 has 6 MA's), (7, 27031), (9, 27097), (11, 27178), (12, 27238),

Gene: Kabocha\_38 Start: 27754, Stop: 28056, Start Num: 4

Candidate Starts for Kabocha\_38:

(1, 27616), (3, 27697), (Start: 4 @27754 has 6 MA's), (7, 27844), (9, 27910), (11, 27991), (12, 28051),

Gene: Oogie\_37 Start: 28647, Stop: 28949, Start Num: 4

Candidate Starts for Oogie\_37:

(1, 28509), (3, 28590), (Start: 4 @28647 has 6 MA's), (7, 28737), (9, 28803), (11, 28884), (12, 28944),

Gene: Pakusa\_35 Start: 26683, Stop: 26985, Start Num: 4

Candidate Starts for Pakusa\_35:

(1, 26545), (3, 26626), (Start: 4 @26683 has 6 MA's), (7, 26773), (9, 26839), (11, 26920), (12, 26980),

Gene: ScarletRaider\_36 Start: 29825, Stop: 30127, Start Num: 4

Candidate Starts for ScarletRaider\_36:

(Start: 4 @29825 has 6 MA's), (12, 30122),

Gene: Schomber\_36 Start: 26691, Stop: 26993, Start Num: 4

Candidate Starts for Schomber\_36:

(1, 26553), (3, 26634), (Start: 4 @26691 has 6 MA's), (7, 26781), (9, 26847), (11, 26928), (12, 26988),

Gene: UBSmoodge\_38 Start: 29559, Stop: 29861, Start Num: 4

Candidate Starts for UBSmoodge\_38:

(Start: 4 @29559 has 6 MA's), (7, 29649), (12, 29856),