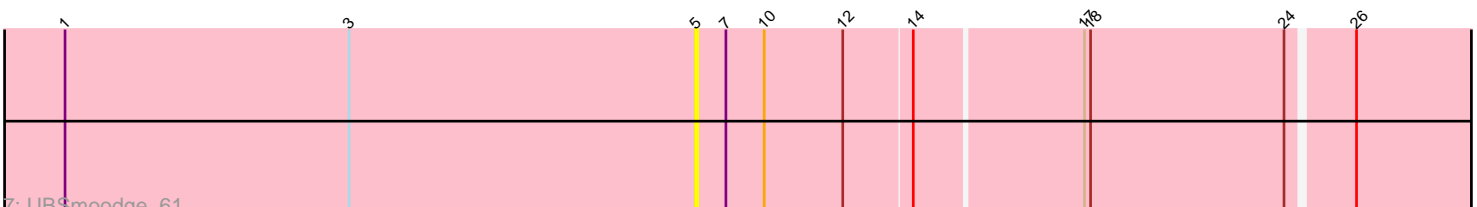
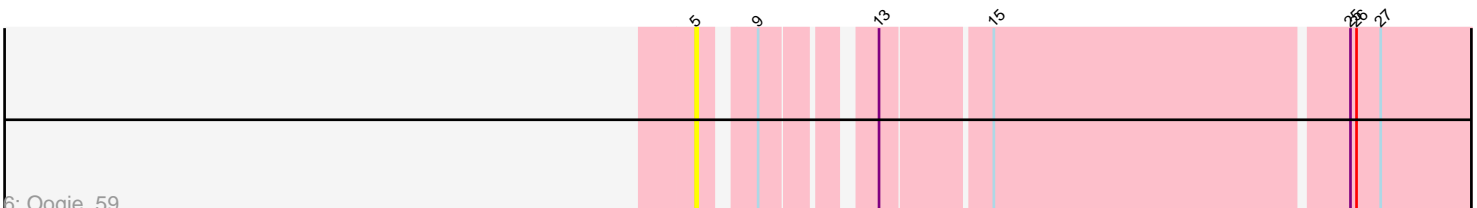
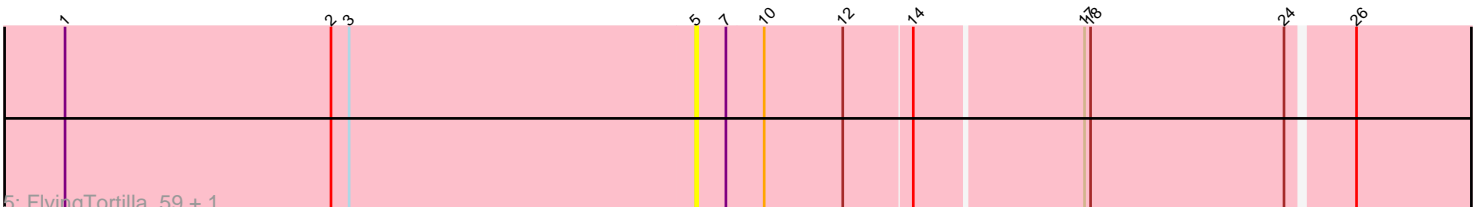
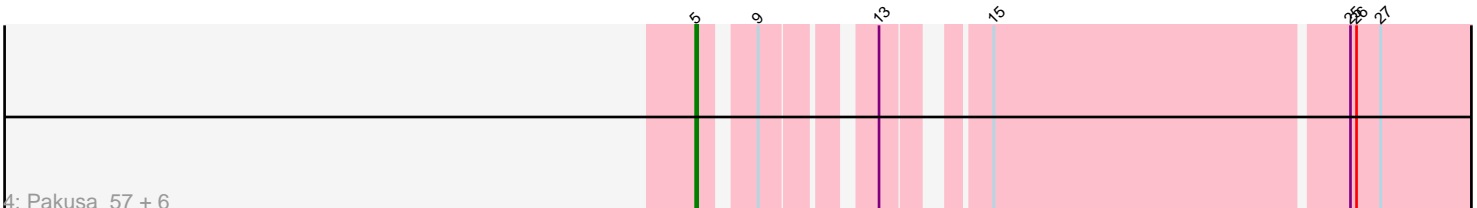
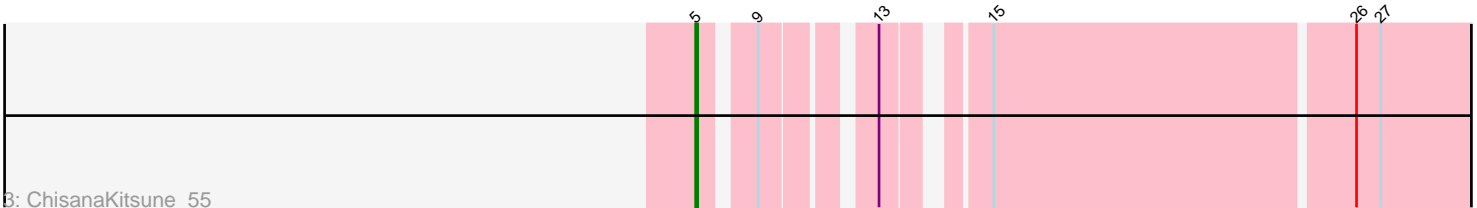
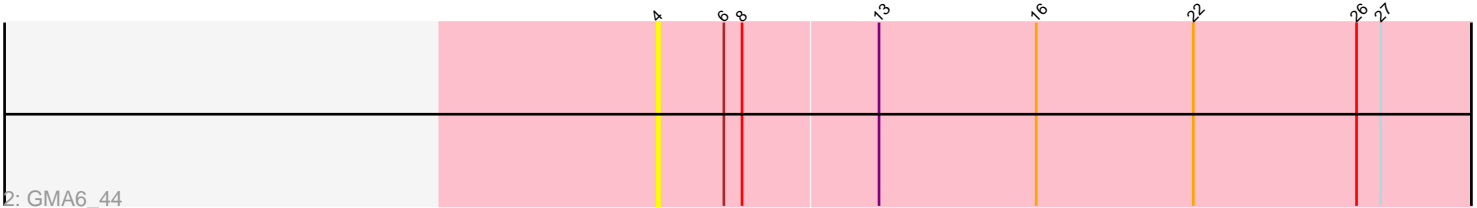
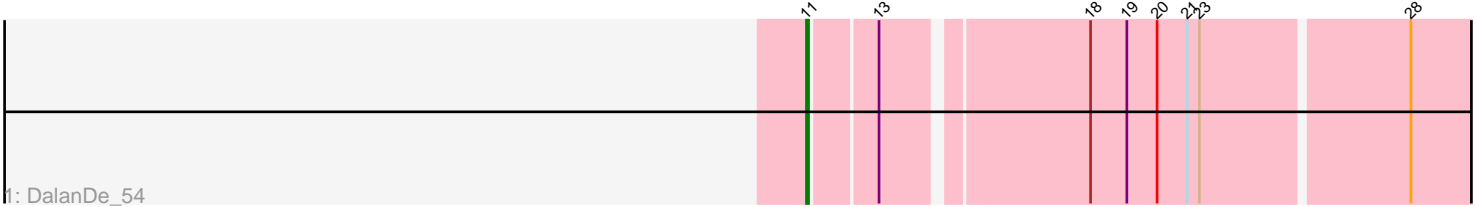


Pham 132551



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 132551 Report

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

Pham number 132551 has 14 members, 7 are drafts.

Phages represented in each track:

- Track 1 : DalanDe\_54
- Track 2 : GMA6\_44
- Track 3 : ChisanaKitsune\_55
- Track 4 : Pakusa\_57, Schomber\_58, Hanem\_59, Gray\_59, Kabocha\_60, Alok\_57, Chidiebere\_59
- Track 5 : FlyingTortilla\_59, ScarletRaider\_58
- Track 6 : Oogie\_59
- Track 7 : UBSmoodge\_61

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

The start number called the most often in the published annotations is 5, it was called in 6 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alok\_57, Chidiebere\_59, ChisanaKitsune\_55, FlyingTortilla\_59, Gray\_59, Hanem\_59, Kabocha\_60, Oogie\_59, Pakusa\_57, ScarletRaider\_58, Schomber\_58, UBSmoodge\_61,

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

- 

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

- DalanDe\_54, GMA6\_44,

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

Start 4:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA6\_44 (DQ),

Start 5:

- Found in 12 of 14 ( 85.7% ) 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\_i\_57 (DQ), Chidiebere\_59 (DQ), ChisanaKitsune\_55 (DQ), FlyingTortilla\_59 (DQ), Gray\_59 (DQ), Hanem\_59 (DQ), Kabocha\_60 (DQ), Oogie\_59 (DQ), Pakusa\_57 (DQ), ScarletRaider\_58 (DQ), Schomber\_58 (DQ), UBSmoodge\_61 (DQ),

Start 11:

- 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\_54 (DQ),

### Summary by clusters:

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:

- Start number 5 was manually annotated 6 times for cluster DQ.
- Start number 11 was manually annotated 1 time for cluster DQ.

### Gene Information:

Gene: Alok\_i\_57 Start: 46420, Stop: 46755, Start Num: 5

Candidate Starts for Alok\_i\_57:

(Start: 5 @46420 has 6 MA's), (9, 46441), (13, 46486), (15, 46525), (25, 46696), (26, 46699), (27, 46711),

Gene: Chidiebere\_59 Start: 46420, Stop: 46755, Start Num: 5

Candidate Starts for Chidiebere\_59:

(Start: 5 @46420 has 6 MA's), (9, 46441), (13, 46486), (15, 46525), (25, 46696), (26, 46699), (27, 46711),

Gene: ChisanaKitsune\_55 Start: 45214, Stop: 45549, Start Num: 5

Candidate Starts for ChisanaKitsune\_55:

(Start: 5 @45214 has 6 MA's), (9, 45235), (13, 45280), (15, 45319), (26, 45493), (27, 45505),

Gene: DalanDe\_54 Start: 49352, Stop: 49678, Start Num: 11

Candidate Starts for DalanDe\_54:

(Start: 11 @49352 has 1 MA's), (13, 49382), (18, 49475), (19, 49493), (20, 49508), (21, 49523), (23, 49529), (28, 49628),

Gene: FlyingTortilla\_59 Start: 50003, Stop: 50374, Start Num: 5

Candidate Starts for FlyingTortilla\_59:

(1, 49691), (2, 49823), (3, 49832), (Start: 5 @50003 has 6 MA's), (7, 50018), (10, 50036), (12, 50075), (14, 50108), (17, 50189), (18, 50192), (24, 50288), (26, 50318),

Gene: GMA6\_44 Start: 37736, Stop: 38137, Start Num: 4

Candidate Starts for GMA6\_44:

(4, 37736), (6, 37769), (8, 37778), (13, 37844), (16, 37922), (22, 38000), (26, 38081), (27, 38093),

Gene: Gray\_59 Start: 46421, Stop: 46756, Start Num: 5

Candidate Starts for Gray\_59:

(Start: 5 @46421 has 6 MA's), (9, 46442), (13, 46487), (15, 46526), (25, 46697), (26, 46700), (27, 46712),

Gene: Hanem\_59 Start: 46420, Stop: 46755, Start Num: 5

Candidate Starts for Hanem\_59:

(Start: 5 @46420 has 6 MA's), (9, 46441), (13, 46486), (15, 46525), (25, 46696), (26, 46699), (27, 46711),

Gene: Kabocha\_60 Start: 47233, Stop: 47568, Start Num: 5

Candidate Starts for Kabocha\_60:

(Start: 5 @47233 has 6 MA's), (9, 47254), (13, 47299), (15, 47338), (25, 47509), (26, 47512), (27, 47524),

Gene: Oogie\_59 Start: 48129, Stop: 48476, Start Num: 5

Candidate Starts for Oogie\_59:

(Start: 5 @48129 has 6 MA's), (9, 48150), (13, 48195), (15, 48246), (25, 48417), (26, 48420), (27, 48432),

Gene: Pakusa\_57 Start: 46162, Stop: 46497, Start Num: 5

Candidate Starts for Pakusa\_57:

(Start: 5 @46162 has 6 MA's), (9, 46183), (13, 46228), (15, 46267), (25, 46438), (26, 46441), (27, 46453),

Gene: ScarletRaider\_58 Start: 49311, Stop: 49682, Start Num: 5

Candidate Starts for ScarletRaider\_58:

(1, 48999), (2, 49131), (3, 49140), (Start: 5 @49311 has 6 MA's), (7, 49326), (10, 49344), (12, 49383), (14, 49416), (17, 49497), (18, 49500), (24, 49596), (26, 49626),

Gene: Schomber\_58 Start: 46170, Stop: 46505, Start Num: 5

Candidate Starts for Schomber\_58:

(Start: 5 @46170 has 6 MA's), (9, 46191), (13, 46236), (15, 46275), (25, 46446), (26, 46449), (27, 46461),

Gene: UBSmoodge\_61 Start: 49769, Stop: 50140, Start Num: 5

Candidate Starts for UBSmoodge\_61:

(1, 49457), (3, 49598), (Start: 5 @49769 has 6 MA's), (7, 49784), (10, 49802), (12, 49841), (14, 49874), (17, 49955), (18, 49958), (24, 50054), (26, 50084),