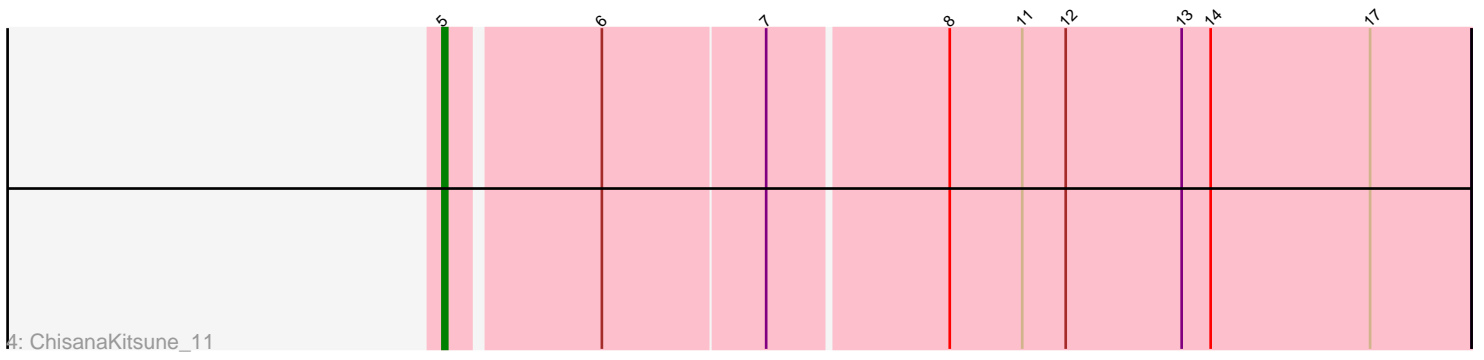
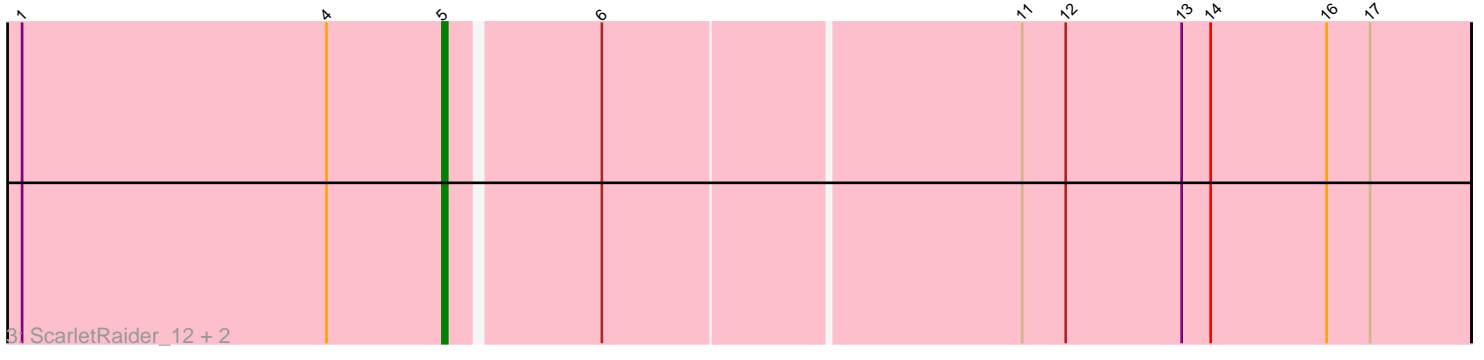
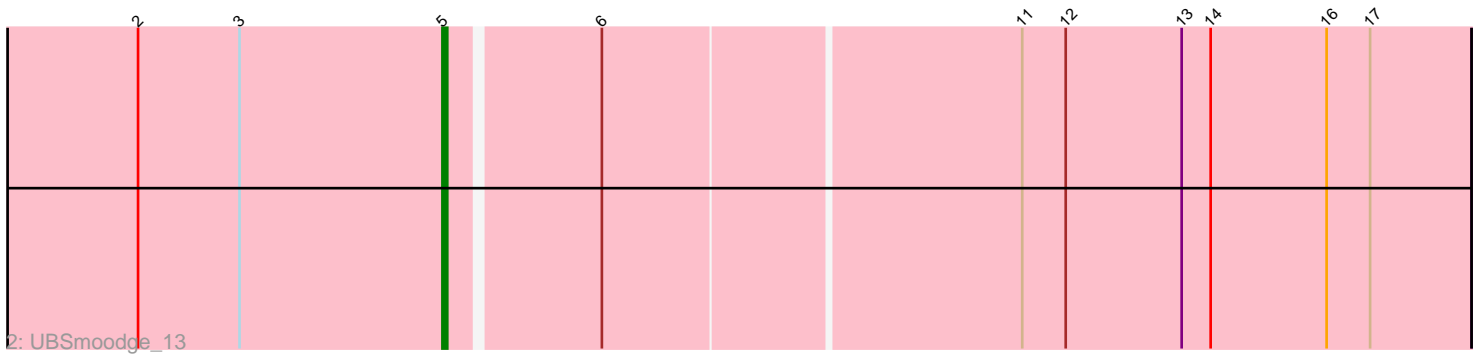
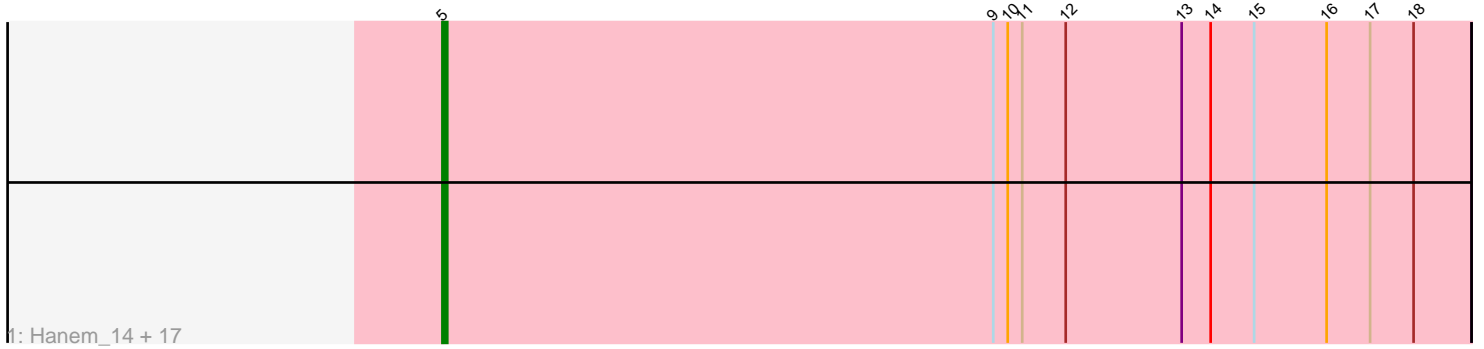


Pham 295051



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 295051 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295051 has 23 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Hanem\_14, Kabocha\_14, Lenoshki\_15, Pakusa\_14, Twin\_14, Oogie\_15, Farrylious\_14, Amoonguss\_14, Mikronejon\_14, MintFritos\_14, Alok\_14, Argena\_14, Beted\_15, Gray\_14, Toneprano\_14, Chidiebere\_14, EmoNemo\_14, Schomber\_14
- Track 2 : UBSmoodge\_13
- Track 3 : ScarletRaider\_12, FruityLoops\_11, FlyingTortilla\_12
- Track 4 : ChisanaKitsune\_11

### ***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 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alok\_14, Amoonguss\_14, Argena\_14, Beted\_15, Chidiebere\_14, ChisanaKitsune\_11, EmoNemo\_14, Farrylious\_14, FlyingTortilla\_12, FruityLoops\_11, Gray\_14, Hanem\_14, Kabocha\_14, Lenoshki\_15, Mikronejon\_14, MintFritos\_14, Oogie\_15, Pakusa\_14, ScarletRaider\_12, Schomber\_14, Toneprano\_14, Twin\_14, UBSmoodge\_13,

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 5:

- Found in 23 of 23 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alok\_14 (DQ), Amoonguss\_14 (DQ), Argena\_14 (DQ), Beted\_15 (DQ), Chidiebere\_14 (DQ), ChisanaKitsune\_11 (DQ), EmoNemo\_14 (DQ), Farrylious\_14 (DQ), FlyingTortilla\_12 (DQ), FruityLoops\_11

(DQ), Gray\_14 (DQ), Hanem\_14 (DQ), Kabocha\_14 (DQ), Lenoshki\_15 (DQ), Mikronejon\_14 (DQ), MintFritos\_14 (DQ), Oogie\_15 (DQ), Pakusa\_14 (DQ), ScarletRaider\_12 (DQ), Schomber\_14 (DQ), Toneprano\_14 (DQ), Twin\_14 (DQ), UBSmoodge\_13 (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 9 times for cluster DQ.

### **Gene Information:**

Gene: Aloki\_14 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for Aloki\_14:

(Start: 5 @5685 has 9 MA's), (9, 5799), (10, 5802), (11, 5805), (12, 5814), (13, 5838), (14, 5844), (15, 5853), (16, 5868), (17, 5877), (18, 5886),

Gene: Amoonguss\_14 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for Amoonguss\_14:

(Start: 5 @5685 has 9 MA's), (9, 5799), (10, 5802), (11, 5805), (12, 5814), (13, 5838), (14, 5844), (15, 5853), (16, 5868), (17, 5877), (18, 5886),

Gene: Argena\_14 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for Argena\_14:

(Start: 5 @5685 has 9 MA's), (9, 5799), (10, 5802), (11, 5805), (12, 5814), (13, 5838), (14, 5844), (15, 5853), (16, 5868), (17, 5877), (18, 5886),

Gene: Beted\_15 Start: 5582, Stop: 5794, Start Num: 5

Candidate Starts for Beted\_15:

(Start: 5 @5582 has 9 MA's), (9, 5696), (10, 5699), (11, 5702), (12, 5711), (13, 5735), (14, 5741), (15, 5750), (16, 5765), (17, 5774), (18, 5783),

Gene: Chidiebere\_14 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for Chidiebere\_14:

(Start: 5 @5685 has 9 MA's), (9, 5799), (10, 5802), (11, 5805), (12, 5814), (13, 5838), (14, 5844), (15, 5853), (16, 5868), (17, 5877), (18, 5886),

Gene: ChisanaKitsune\_11 Start: 4663, Stop: 4869, Start Num: 5

Candidate Starts for ChisanaKitsune\_11:

(Start: 5 @4663 has 9 MA's), (6, 4693), (7, 4726), (8, 4762), (11, 4777), (12, 4786), (13, 4810), (14, 4816), (17, 4849),

Gene: EmoNemo\_14 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for EmoNemo\_14:

(Start: 5 @5685 has 9 MA's), (9, 5799), (10, 5802), (11, 5805), (12, 5814), (13, 5838), (14, 5844), (15, 5853), (16, 5868), (17, 5877), (18, 5886),

Gene: Farrylious\_14 Start: 5709, Stop: 5921, Start Num: 5

Candidate Starts for Farrylious\_14:

(Start: 5 @5709 has 9 MA's), (9, 5823), (10, 5826), (11, 5829), (12, 5838), (13, 5862), (14, 5868), (15, 5877), (16, 5892), (17, 5901), (18, 5910),

Gene: FlyingTortilla\_12 Start: 6471, Stop: 6677, Start Num: 5

Candidate Starts for FlyingTortilla\_12:

(1, 6384), (4, 6447), (Start: 5 @6471 has 9 MA's), (6, 6501), (11, 6585), (12, 6594), (13, 6618), (14, 6624), (16, 6648), (17, 6657),

Gene: FruityLoops\_11 Start: 6380, Stop: 6586, Start Num: 5

Candidate Starts for FruityLoops\_11:

(1, 6293), (4, 6356), (Start: 5 @6380 has 9 MA's), (6, 6410), (11, 6494), (12, 6503), (13, 6527), (14, 6533), (16, 6557), (17, 6566),

Gene: Gray\_14 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for Gray\_14:

(Start: 5 @5685 has 9 MA's), (9, 5799), (10, 5802), (11, 5805), (12, 5814), (13, 5838), (14, 5844), (15, 5853), (16, 5868), (17, 5877), (18, 5886),

Gene: Hanem\_14 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for Hanem\_14:

(Start: 5 @5685 has 9 MA's), (9, 5799), (10, 5802), (11, 5805), (12, 5814), (13, 5838), (14, 5844), (15, 5853), (16, 5868), (17, 5877), (18, 5886),

Gene: Kabocha\_14 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for Kabocha\_14:

(Start: 5 @5685 has 9 MA's), (9, 5799), (10, 5802), (11, 5805), (12, 5814), (13, 5838), (14, 5844), (15, 5853), (16, 5868), (17, 5877), (18, 5886),

Gene: Lenoshki\_15 Start: 5582, Stop: 5794, Start Num: 5

Candidate Starts for Lenoshki\_15:

(Start: 5 @5582 has 9 MA's), (9, 5696), (10, 5699), (11, 5702), (12, 5711), (13, 5735), (14, 5741), (15, 5750), (16, 5765), (17, 5774), (18, 5783),

Gene: Mikronejon\_14 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for Mikronejon\_14:

(Start: 5 @5685 has 9 MA's), (9, 5799), (10, 5802), (11, 5805), (12, 5814), (13, 5838), (14, 5844), (15, 5853), (16, 5868), (17, 5877), (18, 5886),

Gene: MintFritos\_14 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for MintFritos\_14:

(Start: 5 @5685 has 9 MA's), (9, 5799), (10, 5802), (11, 5805), (12, 5814), (13, 5838), (14, 5844), (15, 5853), (16, 5868), (17, 5877), (18, 5886),

Gene: Oogie\_15 Start: 5582, Stop: 5794, Start Num: 5

Candidate Starts for Oogie\_15:

(Start: 5 @5582 has 9 MA's), (9, 5696), (10, 5699), (11, 5702), (12, 5711), (13, 5735), (14, 5741), (15, 5750), (16, 5765), (17, 5774), (18, 5783),

Gene: Pakusa\_14 Start: 5427, Stop: 5639, Start Num: 5

Candidate Starts for Pakusa\_14:

(Start: 5 @5427 has 9 MA's), (9, 5541), (10, 5544), (11, 5547), (12, 5556), (13, 5580), (14, 5586), (15, 5595), (16, 5610), (17, 5619), (18, 5628),

Gene: ScarletRaider\_12 Start: 6498, Stop: 6704, Start Num: 5

Candidate Starts for ScarletRaider\_12:

(1, 6411), (4, 6474), (Start: 5 @6498 has 9 MA's), (6, 6528), (11, 6612), (12, 6621), (13, 6645), (14, 6651), (16, 6675), (17, 6684),

Gene: Schomber\_14 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for Schomber\_14:

(Start: 5 @5685 has 9 MA's), (9, 5799), (10, 5802), (11, 5805), (12, 5814), (13, 5838), (14, 5844), (15, 5853), (16, 5868), (17, 5877), (18, 5886),

Gene: Toneprano\_14 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for Toneprano\_14:

(Start: 5 @5685 has 9 MA's), (9, 5799), (10, 5802), (11, 5805), (12, 5814), (13, 5838), (14, 5844), (15, 5853), (16, 5868), (17, 5877), (18, 5886),

Gene: Twin\_14 Start: 5685, Stop: 5897, Start Num: 5

Candidate Starts for Twin\_14:

(Start: 5 @5685 has 9 MA's), (9, 5799), (10, 5802), (11, 5805), (12, 5814), (13, 5838), (14, 5844), (15, 5853), (16, 5868), (17, 5877), (18, 5886),

Gene: UBSmoodge\_13 Start: 6871, Stop: 7077, Start Num: 5

Candidate Starts for UBSmoodge\_13:

(2, 6808), (3, 6829), (Start: 5 @6871 has 9 MA's), (6, 6901), (11, 6985), (12, 6994), (13, 7018), (14, 7024), (16, 7048), (17, 7057),