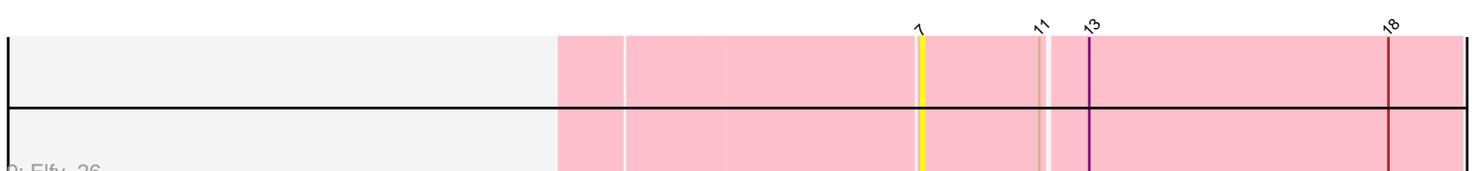
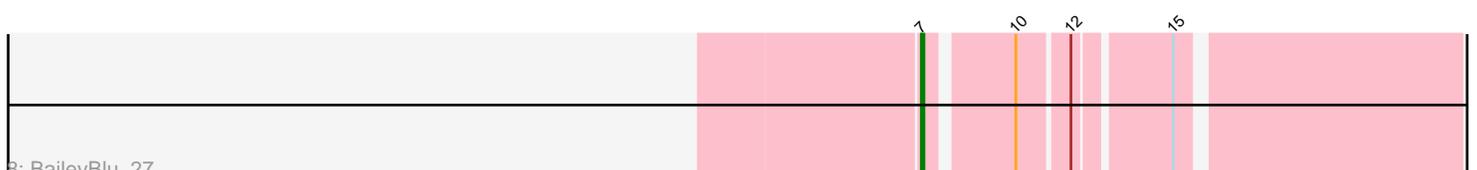
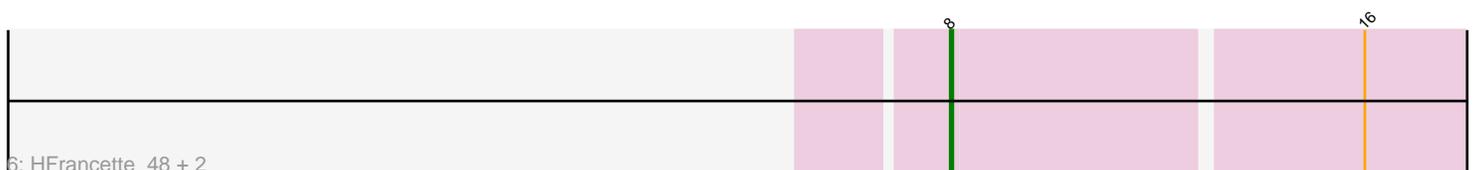
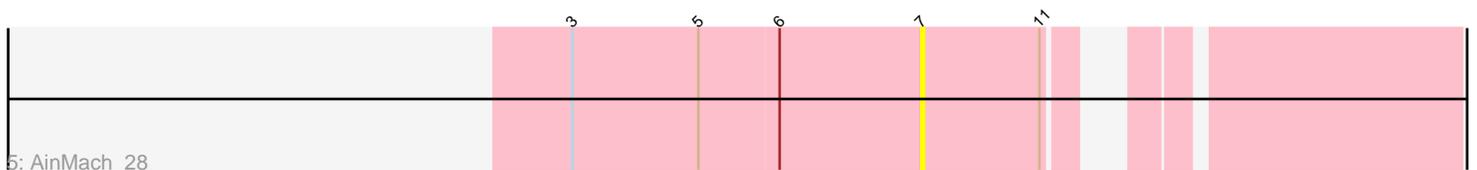
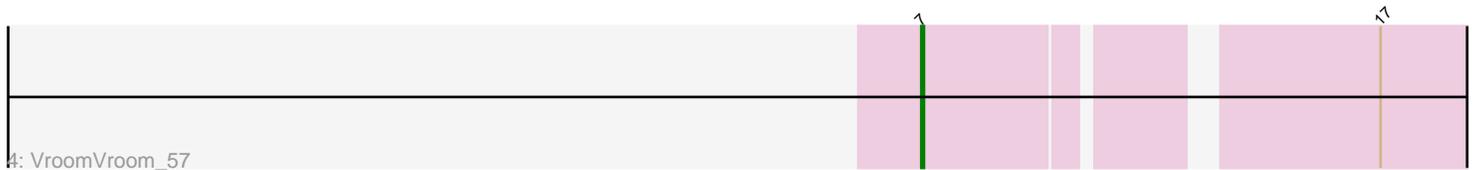
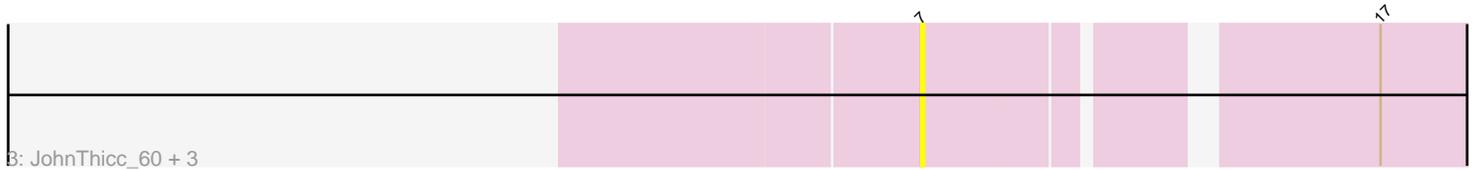
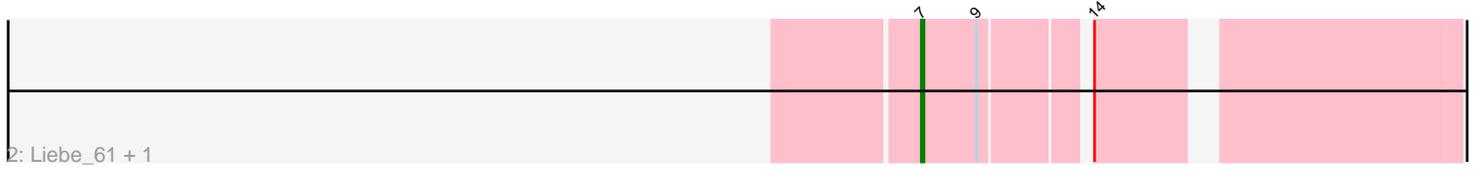
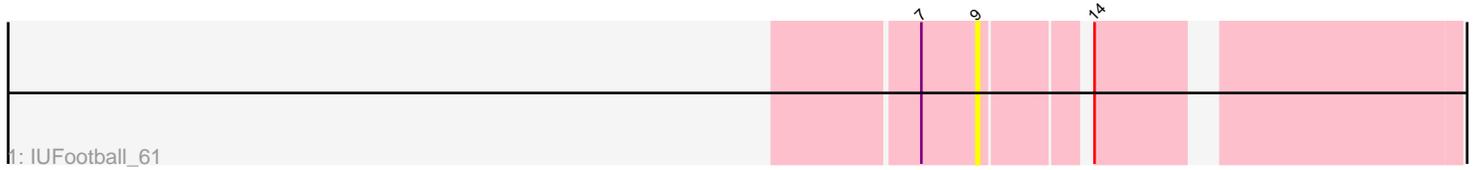


Pham 291551



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 291551 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291551 has 20 members, 7 are drafts.

Phages represented in each track:

- Track 1 : IUFootball\_61
- Track 2 : Liebe\_61, Maureen\_61
- Track 3 : JohnThicc\_60, FiveHead\_61, Origami\_59, LadyAstra\_60
- Track 4 : VroomVroom\_57
- Track 5 : AinMach\_28
- Track 6 : HFrancette\_48, Vondra\_47, Ignacio\_47
- Track 7 : Cumberbatch\_49, Piccadilly\_48, FrumpyGal\_49, ArizonaGT\_49, Eastland\_48, Eklok\_48
- Track 8 : BaileyBlu\_27
- Track 9 : Elfy\_26

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

The start number called the most often in the published annotations is 8, it was called in 9 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArizonaGT\_49, Cumberbatch\_49, Eastland\_48, Eklok\_48, FrumpyGal\_49, HFrancette\_48, Ignacio\_47, Piccadilly\_48, Vondra\_47,

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

- 

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

- AinMach\_28, BaileyBlu\_27, Elfy\_26, FiveHead\_61, IUFootball\_61, JohnThicc\_60, LadyAstra\_60, Liebe\_61, Maureen\_61, Origami\_59, VroomVroom\_57,

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

Start 7:

- Found in 11 of 20 ( 55.0% ) of genes in pham
- Manual Annotations of this start: 4 of 13
- Called 90.9% of time when present

- Phage (with cluster) where this start called: AinMach\_28 (AZ7), BaileyBlu\_27 (FP), Elfy\_26 (FP), FiveHead\_61 (AZ4), JohnThicc\_60 (AZ4), LadyAstra\_60 (AZ4), Liebe\_61 (AZ2), Maureen\_61 (AZ2), Origami\_59 (AZ4), VroomVroom\_57 (AZ4),

Start 8:

- Found in 9 of 20 ( 45.0% ) of genes in pham
- Manual Annotations of this start: 9 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArizonaGT\_49 (BP), Cumberbatch\_49 (BP), Eastland\_48 (BP), Eklok\_48 (BP), FrumpyGal\_49 (BP), HFrancette\_48 (BP), Ignacio\_47 (BP), Piccadilly\_48 (BP), Vondra\_47 (BP),

Start 9:

- Found in 3 of 20 ( 15.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: IUFootball\_61 (AZ2),

**Summary by clusters:**

There are 5 clusters represented in this pham: FP, BP, AZ2, AZ4, AZ7,

Info for manual annotations of cluster AZ2:

- Start number 7 was manually annotated 2 times for cluster AZ2.

Info for manual annotations of cluster AZ4:

- Start number 7 was manually annotated 1 time for cluster AZ4.

Info for manual annotations of cluster BP:

- Start number 8 was manually annotated 9 times for cluster BP.

Info for manual annotations of cluster FP:

- Start number 7 was manually annotated 1 time for cluster FP.

**Gene Information:**

Gene: AinMach\_28 Start: 23053, Stop: 23250, Start Num: 7

Candidate Starts for AinMach\_28:

(3, 22921), (5, 22969), (6, 22999), (Start: 7 @23053 has 4 MA's), (11, 23098),

Gene: ArizonaGT\_49 Start: 32249, Stop: 32467, Start Num: 8

Candidate Starts for ArizonaGT\_49:

(1, 31925), (2, 31949), (4, 32156), (Start: 8 @32249 has 9 MA's), (16, 32399),

Gene: BaileyBlu\_27 Start: 21867, Stop: 22073, Start Num: 7

Candidate Starts for BaileyBlu\_27:

(Start: 7 @21867 has 4 MA's), (10, 21897), (12, 21915), (15, 21948),

Gene: Cumberbatch\_49 Start: 32249, Stop: 32467, Start Num: 8

Candidate Starts for Cumberbatch\_49:

(1, 31925), (2, 31949), (4, 32156), (Start: 8 @32249 has 9 MA's), (16, 32399),

Gene: Eastland\_48 Start: 32209, Stop: 32427, Start Num: 8

Candidate Starts for Eastland\_48:

(1, 31885), (2, 31909), (4, 32116), (Start: 8 @32209 has 9 MA's), (16, 32359),

Gene: Eklok\_48 Start: 32008, Stop: 32226, Start Num: 8

Candidate Starts for Eklok\_48:

(1, 31684), (2, 31708), (4, 31915), (Start: 8 @32008 has 9 MA's), (16, 32158),

Gene: Elfy\_26 Start: 21645, Stop: 21869, Start Num: 7

Candidate Starts for Elfy\_26:

(Start: 7 @21645 has 4 MA's), (11, 21690), (13, 21705), (18, 21819),

Gene: FiveHead\_61 Start: 39410, Stop: 39622, Start Num: 7

Candidate Starts for FiveHead\_61:

(Start: 7 @39410 has 4 MA's), (17, 39563),

Gene: FrumpyGal\_49 Start: 32209, Stop: 32427, Start Num: 8

Candidate Starts for FrumpyGal\_49:

(1, 31885), (2, 31909), (4, 32116), (Start: 8 @32209 has 9 MA's), (16, 32359),

Gene: HFrancette\_48 Start: 32550, Stop: 32768, Start Num: 8

Candidate Starts for HFrancette\_48:

(Start: 8 @32550 has 9 MA's), (16, 32700),

Gene: IUFootball\_61 Start: 42065, Stop: 42256, Start Num: 9

Candidate Starts for IUFootball\_61:

(Start: 7 @42044 has 4 MA's), (9, 42065), (14, 42098),

Gene: Ignacio\_47 Start: 32453, Stop: 32671, Start Num: 8

Candidate Starts for Ignacio\_47:

(Start: 8 @32453 has 9 MA's), (16, 32603),

Gene: JohnThicc\_60 Start: 39410, Stop: 39622, Start Num: 7

Candidate Starts for JohnThicc\_60:

(Start: 7 @39410 has 4 MA's), (17, 39563),

Gene: LadyAstra\_60 Start: 39510, Stop: 39722, Start Num: 7

Candidate Starts for LadyAstra\_60:

(Start: 7 @39510 has 4 MA's), (17, 39663),

Gene: Liebe\_61 Start: 42044, Stop: 42256, Start Num: 7

Candidate Starts for Liebe\_61:

(Start: 7 @42044 has 4 MA's), (9, 42065), (14, 42098),

Gene: Maureen\_61 Start: 42043, Stop: 42255, Start Num: 7

Candidate Starts for Maureen\_61:

(Start: 7 @42043 has 4 MA's), (9, 42064), (14, 42097),

Gene: Origami\_59 Start: 39302, Stop: 39514, Start Num: 7

Candidate Starts for Origami\_59:

(Start: 7 @39302 has 4 MA's), (17, 39455),

Gene: Piccadilly\_48 Start: 32208, Stop: 32426, Start Num: 8

Candidate Starts for Piccadilly\_48:

(1, 31884), (2, 31908), (4, 32115), (Start: 8 @32208 has 9 MA's), (16, 32358),

Gene: Vondra\_47 Start: 31794, Stop: 32012, Start Num: 8

Candidate Starts for Vondra\_47:

(Start: 8 @31794 has 9 MA's), (16, 31944),

Gene: VroomVroom\_57 Start: 39455, Stop: 39667, Start Num: 7

Candidate Starts for VroomVroom\_57:

(Start: 7 @39455 has 4 MA's), (17, 39608),