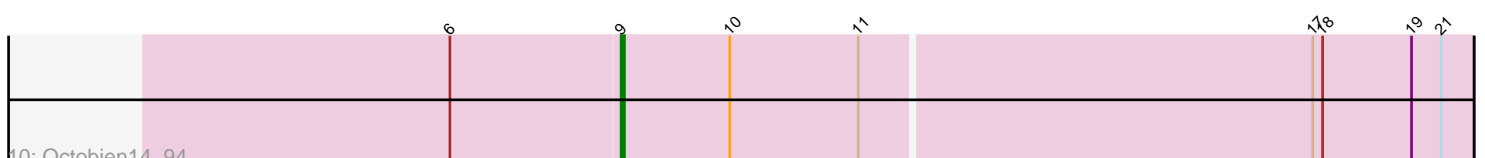
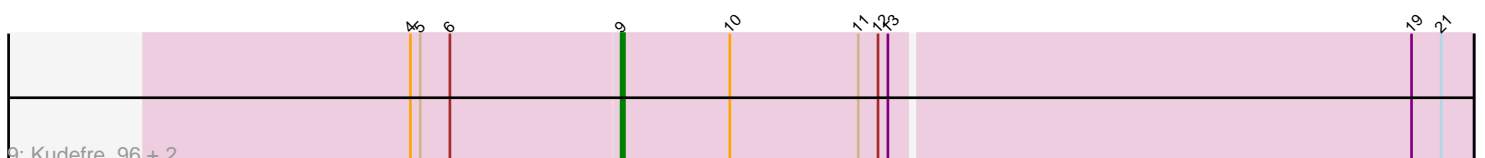
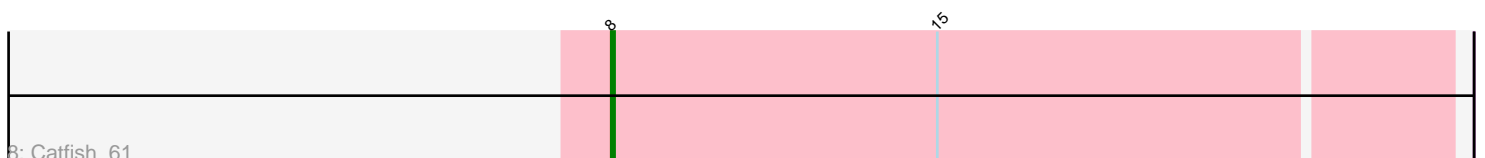
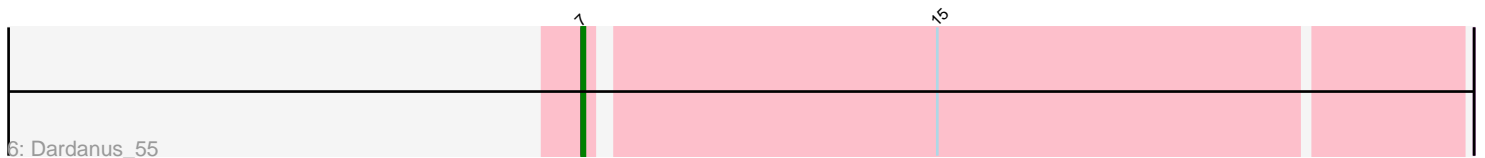
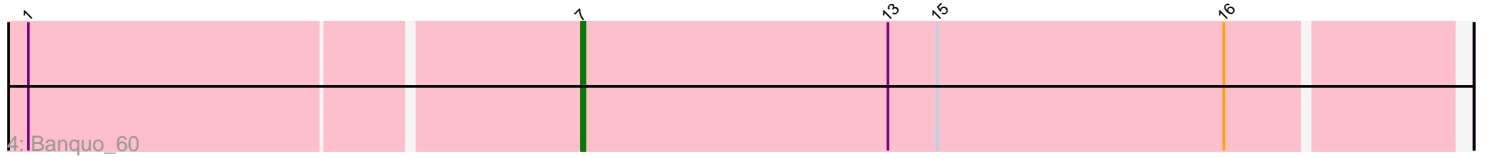
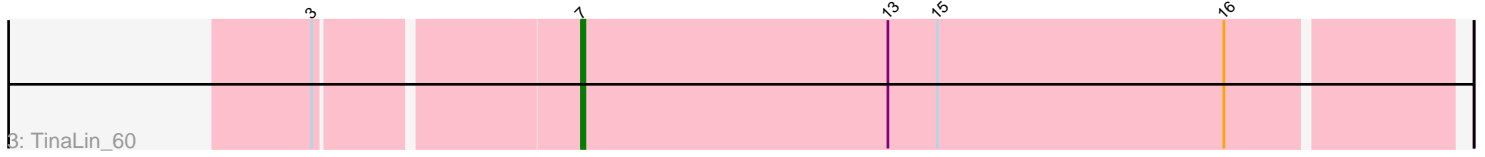
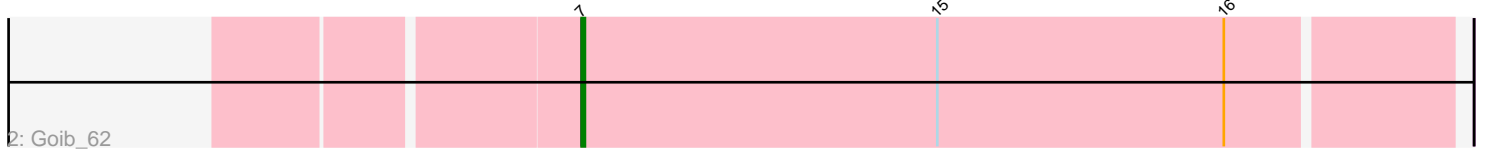
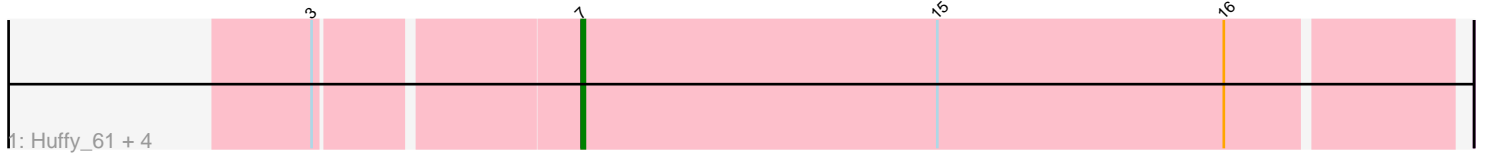


Pham 295173



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 295173 Report

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

Pham number 295173 has 16 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Huffy\_61, Splinter\_61, Vendetta\_61, TZGordon\_62, DinoDaryn\_61
- Track 2 : Goib\_62
- Track 3 : TinaLin\_60
- Track 4 : Banquo\_60
- Track 5 : Gsput1\_53
- Track 6 : Dardanus\_55
- Track 7 : Schmidt\_55
- Track 8 : Catfish\_61
- Track 9 : Kudrefre\_96, Syleon\_96, Sephiroth\_93
- Track 10 : Octobien14\_94

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

The start number called the most often in the published annotations is 7, it was called in 10 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Banquo\_60, Dardanus\_55, DinoDaryn\_61, Goib\_62, Gsput1\_53, Huffy\_61, Schmidt\_55, Splinter\_61, TZGordon\_62, TinaLin\_60, Vendetta\_61,

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

- 

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

- Catfish\_61, Kudrefre\_96, Octobien14\_94, Sephiroth\_93, Syleon\_96,

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

Start 7:

- Found in 11 of 16 ( 68.8% ) of genes in pham
- Manual Annotations of this start: 10 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Banquo\_60 (CU1), Dardanus\_55 (CU3), DinoDaryn\_61 (CU1), Goib\_62 (CU1), Gsput1\_53 (CU2), Huffy\_61 (CU1),

Schmidt\_55 (CU4), Splinter\_61 (CU1), TZGordon\_62 (CU1), TinaLin\_60 (CU1), Vendetta\_61 (CU1),

Start 8:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Catfish\_61 (CU5),

Start 9:

- Found in 4 of 16 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 4 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kudrefre\_96 (DU1), Octobien14\_94 (DU1), Sephiroth\_93 (DU1), Syleon\_96 (DU1),

### **Summary by clusters:**

There are 6 clusters represented in this pham: CU5, CU4, CU3, CU2, CU1, DU1,

Info for manual annotations of cluster CU1:

- Start number 7 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 7 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 7 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:

- Start number 8 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DU1:

- Start number 9 was manually annotated 4 times for cluster DU1.

### **Gene Information:**

Gene: Banquo\_60 Start: 38293, Stop: 38553, Start Num: 7

Candidate Starts for Banquo\_60:

(1, 38131), (Start: 7 @38293 has 10 MA's), (13, 38386), (15, 38401), (16, 38488),

Gene: Catfish\_61 Start: 40297, Stop: 40548, Start Num: 8

Candidate Starts for Catfish\_61:

(Start: 8 @40297 has 1 MA's), (15, 40396),

Gene: Dardanus\_55 Start: 36561, Stop: 36818, Start Num: 7

Candidate Starts for Dardanus\_55:

(Start: 7 @36561 has 10 MA's), (15, 36663),

Gene: DinoDaryn\_61 Start: 38377, Stop: 38637, Start Num: 7

Candidate Starts for DinoDaryn\_61:  
(3, 38302), (Start: 7 @38377 has 10 MA's), (15, 38485), (16, 38572),

Gene: Goib\_62 Start: 39493, Stop: 39753, Start Num: 7  
Candidate Starts for Goib\_62:  
(Start: 7 @39493 has 10 MA's), (15, 39601), (16, 39688),

Gene: Gspu1\_53 Start: 36846, Stop: 37109, Start Num: 7  
Candidate Starts for Gspu1\_53:  
(Start: 7 @36846 has 10 MA's), (13, 36936), (15, 36951), (20, 37098),

Gene: Huffu\_61 Start: 38377, Stop: 38637, Start Num: 7  
Candidate Starts for Huffu\_61:  
(3, 38302), (Start: 7 @38377 has 10 MA's), (15, 38485), (16, 38572),

Gene: Kudrefre\_96 Start: 57441, Stop: 57695, Start Num: 9  
Candidate Starts for Kudrefre\_96:  
(4, 57378), (5, 57381), (6, 57390), (Start: 9 @57441 has 4 MA's), (10, 57474), (11, 57513), (12, 57519),  
(13, 57522), (19, 57678), (21, 57687),

Gene: Octobien14\_94 Start: 56819, Stop: 57073, Start Num: 9  
Candidate Starts for Octobien14\_94:  
(6, 56768), (Start: 9 @56819 has 4 MA's), (10, 56852), (11, 56891), (17, 57026), (18, 57029), (19,  
57056), (21, 57065),

Gene: Schmidt\_55 Start: 35988, Stop: 36248, Start Num: 7  
Candidate Starts for Schmidt\_55:  
(2, 35889), (Start: 7 @35988 has 10 MA's), (14, 36090), (15, 36096), (16, 36183),

Gene: Sephiroth\_93 Start: 57410, Stop: 57664, Start Num: 9  
Candidate Starts for Sephiroth\_93:  
(4, 57347), (5, 57350), (6, 57359), (Start: 9 @57410 has 4 MA's), (10, 57443), (11, 57482), (12, 57488),  
(13, 57491), (19, 57647), (21, 57656),

Gene: Splinter\_61 Start: 39464, Stop: 39724, Start Num: 7  
Candidate Starts for Splinter\_61:  
(3, 39389), (Start: 7 @39464 has 10 MA's), (15, 39572), (16, 39659),

Gene: Syleon\_96 Start: 57360, Stop: 57614, Start Num: 9  
Candidate Starts for Syleon\_96:  
(4, 57297), (5, 57300), (6, 57309), (Start: 9 @57360 has 4 MA's), (10, 57393), (11, 57432), (12, 57438),  
(13, 57441), (19, 57597), (21, 57606),

Gene: TZGordon\_62 Start: 38353, Stop: 38613, Start Num: 7  
Candidate Starts for TZGordon\_62:  
(3, 38278), (Start: 7 @38353 has 10 MA's), (15, 38461), (16, 38548),

Gene: TinaLin\_60 Start: 38216, Stop: 38476, Start Num: 7  
Candidate Starts for TinaLin\_60:  
(3, 38141), (Start: 7 @38216 has 10 MA's), (13, 38309), (15, 38324), (16, 38411),

Gene: Vendetta\_61 Start: 39464, Stop: 39724, Start Num: 7  
Candidate Starts for Vendetta\_61:

(3, 39389), (Start: 7 @39464 has 10 MA's), (15, 39572), (16, 39659),