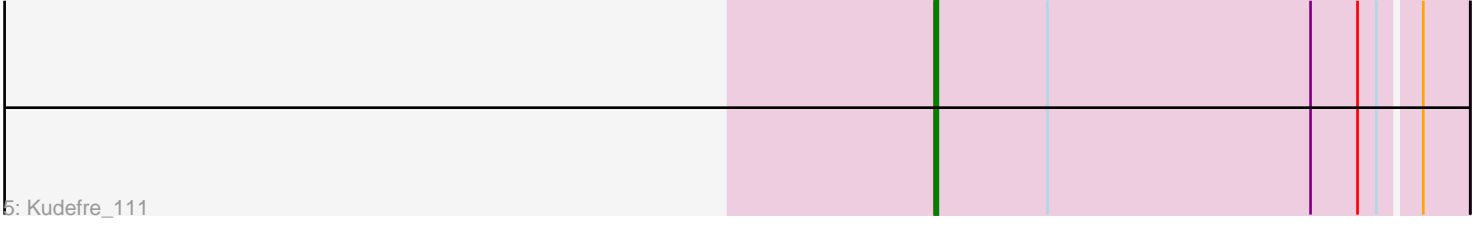
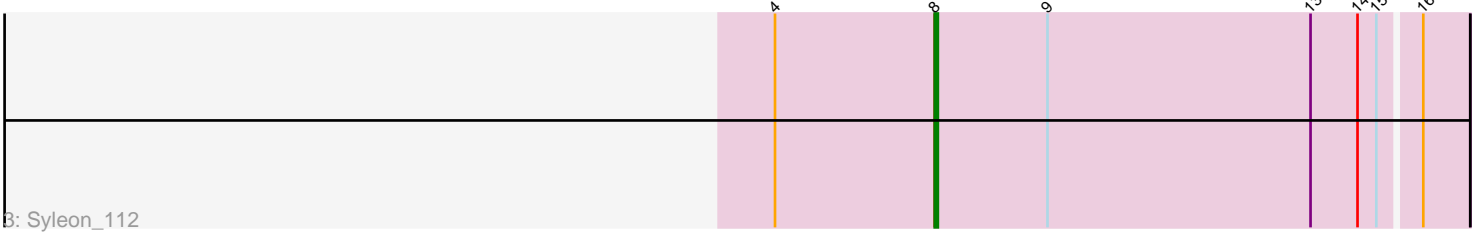
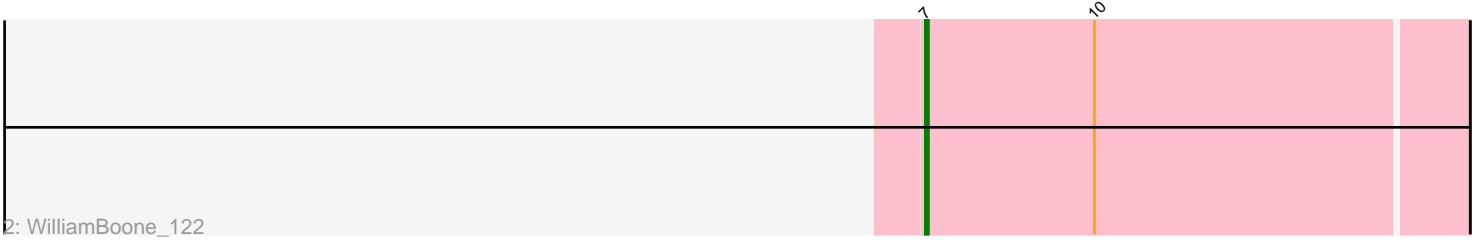
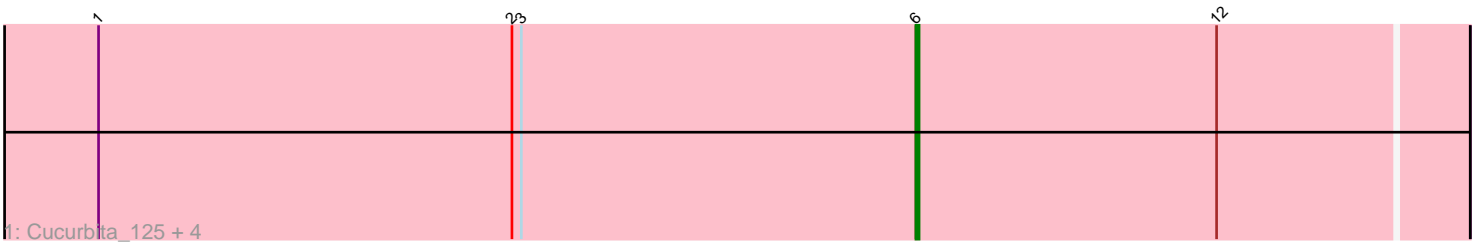


Pham 5812



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 5812 Report

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

Pham number 5812 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Cucurbita\_125, PhinkBoden\_124, Engineer\_126, Bachita\_127, Toniann\_124
- Track 2 : WilliamBoone\_122
- Track 3 : Syleon\_112
- Track 4 : Sephiroth\_107
- Track 5 : Kudefre\_111
- Track 6 : SJReid\_241

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

The start number called the most often in the published annotations is 6, it was called in 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bachita\_127, Cucurbita\_125, Engineer\_126, PhinkBoden\_124, Toniann\_124,

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

- 

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

- Kudefre\_111, SJReid\_241, Sephiroth\_107, Syleon\_112, WilliamBoone\_122,

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

Start 6:

- Found in 5 of 10 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 5 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bachita\_127 (CQ1), Cucurbita\_125 (CQ1), Engineer\_126 (CQ1), PhinkBoden\_124 (CQ1), Toniann\_124 (CQ1),

Start 7:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9

- Called 100.0% of time when present
- Phage (with cluster) where this start called: SJReid\_241 (FC), WilliamBoone\_122 (CQ1),

Start 8:

- Found in 3 of 10 ( 30.0% ) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kudrefre\_111 (DU1), Sephiroth\_107 (DU1), Syleon\_112 (DU1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: DU1, CQ1, FC,

Info for manual annotations of cluster CQ1:

- Start number 6 was manually annotated 5 times for cluster CQ1.
- Start number 7 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster DU1:

- Start number 8 was manually annotated 3 times for cluster DU1.

### **Gene Information:**

Gene: Bachita\_127 Start: 71827, Stop: 72000, Start Num: 6

Candidate Starts for Bachita\_127:

(1, 71566), (2, 71698), (3, 71701), (Start: 6 @71827 has 5 MA's), (12, 71923),

Gene: Cucurbita\_125 Start: 72140, Stop: 72313, Start Num: 6

Candidate Starts for Cucurbita\_125:

(1, 71879), (2, 72011), (3, 72014), (Start: 6 @72140 has 5 MA's), (12, 72236),

Gene: Engineer\_126 Start: 71800, Stop: 71973, Start Num: 6

Candidate Starts for Engineer\_126:

(1, 71539), (2, 71671), (3, 71674), (Start: 6 @71800 has 5 MA's), (12, 71896),

Gene: Kudrefre\_111 Start: 61580, Stop: 61747, Start Num: 8

Candidate Starts for Kudrefre\_111:

(Start: 8 @61580 has 3 MA's), (9, 61616), (13, 61700), (14, 61715), (15, 61721), (16, 61733),

Gene: PhinkBoden\_124 Start: 71745, Stop: 71918, Start Num: 6

Candidate Starts for PhinkBoden\_124:

(1, 71484), (2, 71616), (3, 71619), (Start: 6 @71745 has 5 MA's), (12, 71841),

Gene: SJReid\_241 Start: 146993, Stop: 147163, Start Num: 7

Candidate Starts for SJReid\_241:

(5, 146987), (Start: 7 @146993 has 1 MA's), (11, 147065),

Gene: Sephiroth\_107 Start: 61332, Stop: 61502, Start Num: 8

Candidate Starts for Sephiroth\_107:

(Start: 8 @61332 has 3 MA's), (16, 61488),

Gene: Syleon\_112 Start: 62117, Stop: 62284, Start Num: 8

Candidate Starts for Syleon\_112:

(4, 62066), (Start: 8 @62117 has 3 MA's), (9, 62153), (13, 62237), (14, 62252), (15, 62258), (16, 62270),

Gene: Toniann\_124 Start: 70990, Stop: 71163, Start Num: 6

Candidate Starts for Toniann\_124:

(1, 70729), (2, 70861), (3, 70864), (Start: 6 @70990 has 5 MA's), (12, 71086),

Gene: WilliamBoone\_122 Start: 68235, Stop: 68405, Start Num: 7

Candidate Starts for WilliamBoone\_122:

(Start: 7 @68235 has 1 MA's), (10, 68289),