Pham 5812

1: Cucurbita_125 + 4

2: WilliamBoone_122

3: Syleon_112

4: Sephiroth_107

5: Kudefre_111

6: SJReid_241
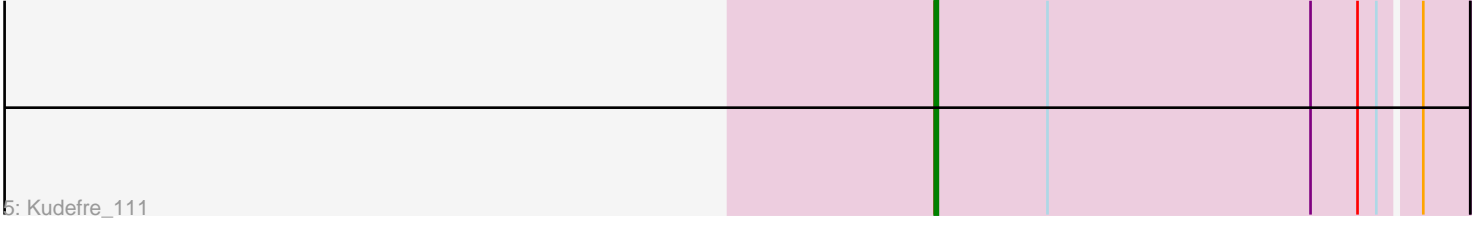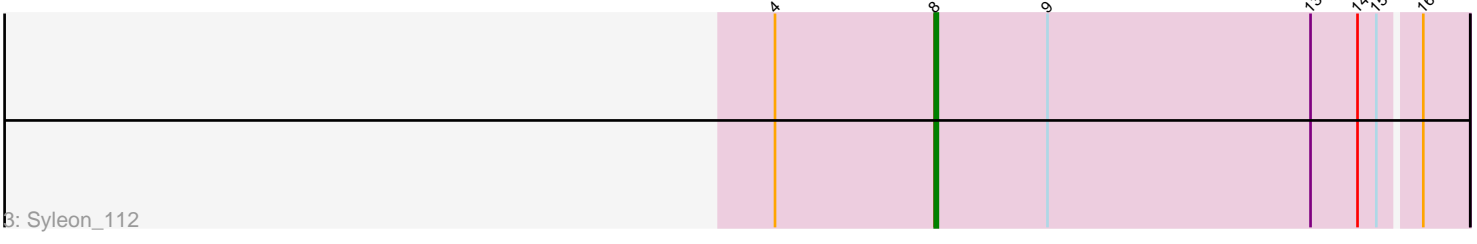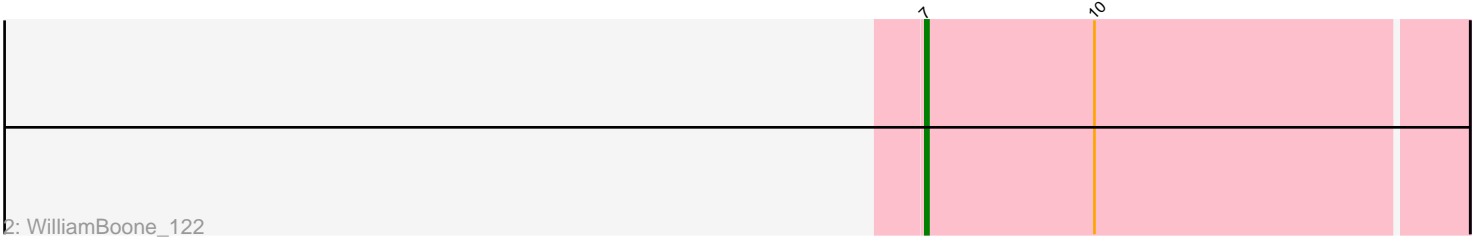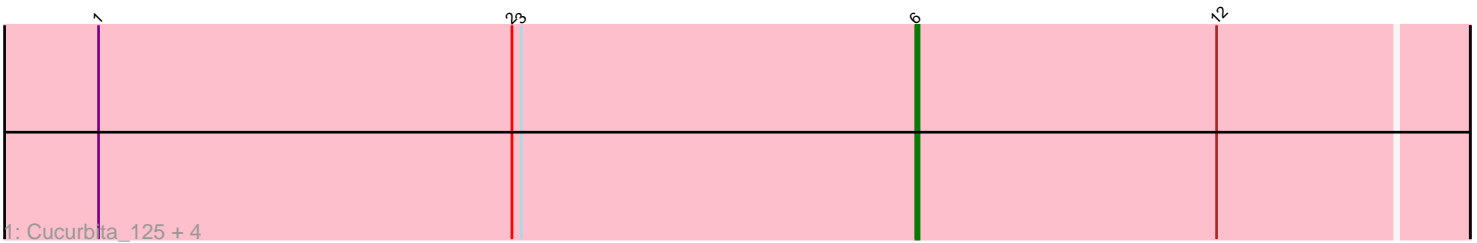
Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 04/28/24 on database version 559.

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: Kudefre_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: Kudefre_111 Start: 61580, Stop: 61747, Start Num: 8
Candidate Starts for Kudefre_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),