Pham 87611

1: Ruchi_31 + 2

2: Galaxy_31 + 1

3: Melons_36 + 1

4: Kepler_36

5: Kuleana_35

6: SJReid_347 + 1

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 87611 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87611 has 11 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Ruchi_31, Basilisk_32, Brynnie_31
• Track 2 : Galaxy_31, Vulpecula_31
• Track 3 : Melons_36, Lunar_36
• Track 4 : Kepler_36
• Track 5 : Kuleana_35
• Track 6 : SJReid_347, SJReid_36

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

Genes that call this "Most Annotated" start:
• Basilisk_32, Brynnie_31, Galaxy_31, Kepler_36, Kuleana_35, Lunar_36, Melons_36, Ruchi_31, Vulpecula_31,

Genes that have the "Most Annotated" start but do not call it:
• SJReid_347, SJReid_36,

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

Summary by start number:

Start 4:
• Found in 2 of 11 (18.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SJReid_347 (FC), SJReid_36 (FC),

Start 6:
• Found in 11 of 11 (100.0%) of genes in pham
• Manual Annotations of this start: 9 of 9
• Called 81.8% of time when present

• Phage (with cluster) where this start called: Basilisk_32 (AS1), Brynnie_31 (AS1), Galaxy_31 (AS1), Kepler_36 (AS2), Kuleana_35 (AS2), Lunar_36 (AS2), Melons_36 (AS2), Ruchi_31 (AS1), Vulpecula_31 (AS1),

Summary by clusters:

There are 3 clusters represented in this pham: AS2, AS1, FC,

Info for manual annotations of cluster AS1:
•Start number 6 was manually annotated 5 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 6 was manually annotated 4 times for cluster AS2.

Gene Information:
Gene: Basilisk_32 Start: 23038, Stop: 22781, Start Num: 6
Candidate Starts for Basilisk_32:
(Start: 6 @23038 has 9 MA's),

Gene: Brynnie_31 Start: 22916, Stop: 22659, Start Num: 6
Candidate Starts for Brynnie_31:
(Start: 6 @22916 has 9 MA's),

Gene: Galaxy_31 Start: 22327, Stop: 22070, Start Num: 6
Candidate Starts for Galaxy_31:
(2, 22696), (3, 22609), (Start: 6 @22327 has 9 MA's),

Gene: Kepler_36 Start: 23057, Stop: 22815, Start Num: 6
Candidate Starts for Kepler_36:
(1, 23423), (Start: 6 @23057 has 9 MA's),

Gene: Kuleana_35 Start: 22489, Stop: 22223, Start Num: 6
Candidate Starts for Kuleana_35:
(1, 22861), (Start: 6 @22489 has 9 MA's),

Gene: Lunar_36 Start: 22974, Stop: 22708, Start Num: 6
Candidate Starts for Lunar_36:
(Start: 6 @22974 has 9 MA's),

Gene: Melons_36 Start: 22790, Stop: 22524, Start Num: 6
Candidate Starts for Melons_36:
(Start: 6 @22790 has 9 MA's),

Gene: Ruchi_31 Start: 22984, Stop: 22727, Start Num: 6
Candidate Starts for Ruchi_31:
(Start: 6 @22984 has 9 MA's),

Gene: SJReid_347 Start: 187843, Stop: 188181, Start Num: 4
Candidate Starts for SJReid_347:

(4, 187843), (5, 187864), (Start: 6 @187888 has 9 MA's), (7, 187939), (8, 187966), (9, 188044),

Gene: SJReid_36 Start: 15004, Stop: 15342, Start Num: 4
Candidate Starts for SJReid_36:
(4, 15004), (5, 15025), (Start: 6 @15049 has 9 MA's), (7, 15100), (8, 15127), (9, 15205),

Gene: Vulpecula_31 Start: 22660, Stop: 22403, Start Num: 6
Candidate Starts for Vulpecula_31:
(2, 23029), (3, 22942), (Start: 6 @22660 has 9 MA's),