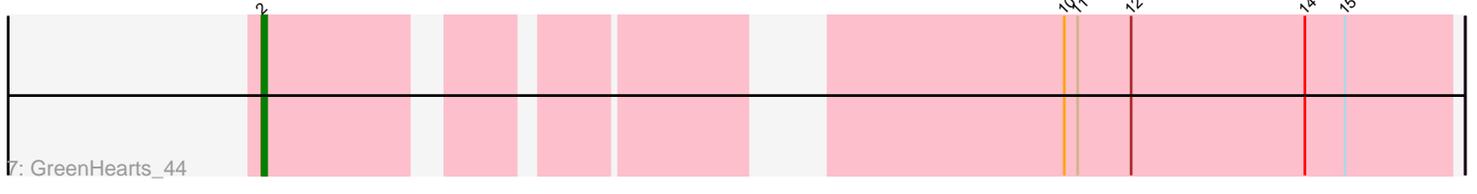
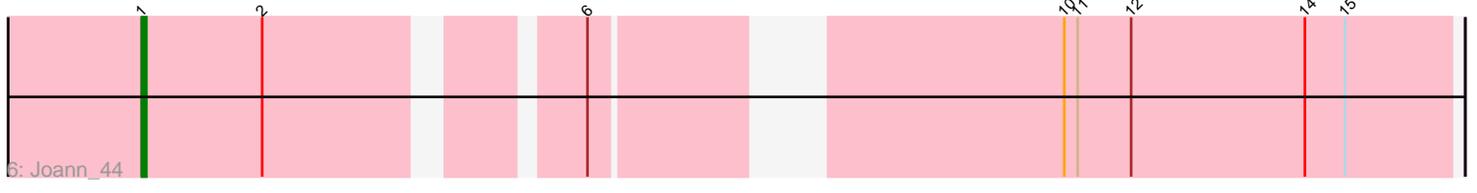
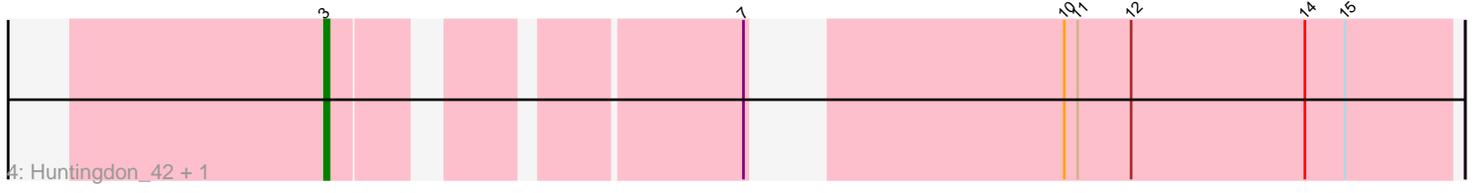
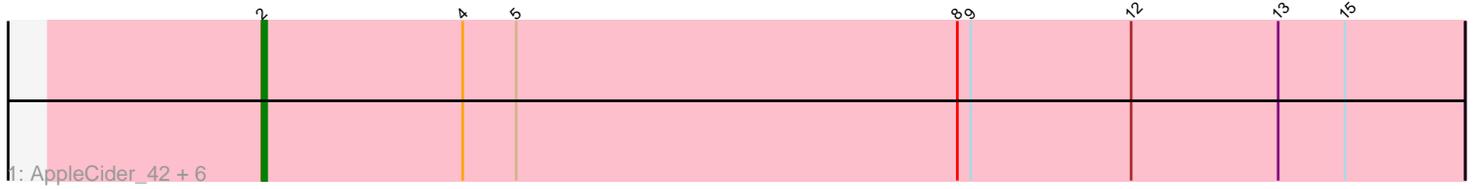


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 289827 Report

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

Pham number 289827 has 17 members, 0 are drafts.

Phages represented in each track:

- Track 1 : AppleCider\_42, Suppi\_42, CallieOMalley\_42, Wayne\_42, Canowicakte\_42, PartyCup\_43, Litotes\_42
- Track 2 : Albanese\_43
- Track 3 : Greenhouse\_44, Oxynfrius\_43, Lakshmi\_43
- Track 4 : Huntingdon\_42, RcigaStruga\_42
- Track 5 : Nubia\_43
- Track 6 : Joann\_44
- Track 7 : GreenHearts\_44
- Track 8 : Misaeng\_42

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

The start number called the most often in the published annotations is 2, it was called in 13 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Albanese\_43, AppleCider\_42, CallieOMalley\_42, Canowicakte\_42, GreenHearts\_44, Greenhouse\_44, Lakshmi\_43, Litotes\_42, Nubia\_43, Oxynfrius\_43, PartyCup\_43, Suppi\_42, Wayne\_42,

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

- Joann\_44,

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

- Huntingdon\_42, Misaeng\_42, RcigaStruga\_42,

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

Start 1:

- Found in 1 of 17 ( 5.9% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Joann\_44 (AK),

#### Start 2:

- Found in 14 of 17 ( 82.4% ) of genes in pham
- Manual Annotations of this start: 13 of 17
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Albanese\_43 (AK), AppleCider\_42 (AK), CallieOMalley\_42 (AK), Canowicakte\_42 (AK), GreenHearts\_44 (AK), Greenhouse\_44 (AK), Lakshmi\_43 (AK), Litotes\_42 (AK), Nubia\_43 (AK), Oxyntrius\_43 (AK), PartyCup\_43 (AK), Suppi\_42 (AK), Wayne\_42 (AK),

#### Start 3:

- Found in 3 of 17 ( 17.6% ) of genes in pham
- Manual Annotations of this start: 3 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Huntingdon\_42 (AK), Misaeng\_42 (AK), RcigaStruga\_42 (AK),

### Summary by clusters:

There is one cluster represented in this pham: AK

Info for manual annotations of cluster AK:

- Start number 1 was manually annotated 1 time for cluster AK.
- Start number 2 was manually annotated 13 times for cluster AK.
- Start number 3 was manually annotated 3 times for cluster AK.

### **Gene Information:**

Gene: Albanese\_43 Start: 29112, Stop: 29345, Start Num: 2

Candidate Starts for Albanese\_43:

(Start: 2 @29112 has 13 MA's), (10, 29259), (11, 29262), (12, 29274), (15, 29322),

Gene: AppleCider\_42 Start: 28492, Stop: 28761, Start Num: 2

Candidate Starts for AppleCider\_42:

(Start: 2 @28492 has 13 MA's), (4, 28537), (5, 28549), (8, 28648), (9, 28651), (12, 28687), (13, 28720), (15, 28735),

Gene: CallieOMalley\_42 Start: 28492, Stop: 28761, Start Num: 2

Candidate Starts for CallieOMalley\_42:

(Start: 2 @28492 has 13 MA's), (4, 28537), (5, 28549), (8, 28648), (9, 28651), (12, 28687), (13, 28720), (15, 28735),

Gene: Canowicakte\_42 Start: 28527, Stop: 28796, Start Num: 2

Candidate Starts for Canowicakte\_42:

(Start: 2 @28527 has 13 MA's), (4, 28572), (5, 28584), (8, 28683), (9, 28686), (12, 28722), (13, 28755), (15, 28770),

Gene: GreenHearts\_44 Start: 29403, Stop: 29636, Start Num: 2

Candidate Starts for GreenHearts\_44:

(Start: 2 @29403 has 13 MA's), (10, 29550), (11, 29553), (12, 29565), (14, 29604), (15, 29613),

Gene: Greenhouse\_44 Start: 29123, Stop: 29356, Start Num: 2

Candidate Starts for Greenhouse\_44:

(Start: 2 @29123 has 13 MA's), (10, 29270), (11, 29273), (12, 29285), (14, 29324), (15, 29333),

Gene: Huntingdon\_42 Start: 28950, Stop: 29168, Start Num: 3

Candidate Starts for Huntingdon\_42:

(Start: 3 @28950 has 3 MA's), (7, 29028), (10, 29082), (11, 29085), (12, 29097), (14, 29136), (15, 29145),

Gene: Joann\_44 Start: 29171, Stop: 29431, Start Num: 1

Candidate Starts for Joann\_44:

(Start: 1 @29171 has 1 MA's), (Start: 2 @29198 has 13 MA's), (6, 29258), (10, 29345), (11, 29348), (12, 29360), (14, 29399), (15, 29408),

Gene: Lakshmi\_43 Start: 29086, Stop: 29319, Start Num: 2

Candidate Starts for Lakshmi\_43:

(Start: 2 @29086 has 13 MA's), (10, 29233), (11, 29236), (12, 29248), (14, 29287), (15, 29296),

Gene: Litotes\_42 Start: 28480, Stop: 28749, Start Num: 2

Candidate Starts for Litotes\_42:

(Start: 2 @28480 has 13 MA's), (4, 28525), (5, 28537), (8, 28636), (9, 28639), (12, 28675), (13, 28708), (15, 28723),

Gene: Misaeng\_42 Start: 29074, Stop: 29292, Start Num: 3

Candidate Starts for Misaeng\_42:

(Start: 3 @29074 has 3 MA's), (10, 29206), (11, 29209), (12, 29221), (14, 29260), (15, 29269),

Gene: Nubia\_43 Start: 29031, Stop: 29264, Start Num: 2

Candidate Starts for Nubia\_43:

(Start: 2 @29031 has 13 MA's), (11, 29181), (12, 29193), (15, 29241),

Gene: Oxynfrius\_43 Start: 29052, Stop: 29285, Start Num: 2

Candidate Starts for Oxynfrius\_43:

(Start: 2 @29052 has 13 MA's), (10, 29199), (11, 29202), (12, 29214), (14, 29253), (15, 29262),

Gene: PartyCup\_43 Start: 28706, Stop: 28975, Start Num: 2

Candidate Starts for PartyCup\_43:

(Start: 2 @28706 has 13 MA's), (4, 28751), (5, 28763), (8, 28862), (9, 28865), (12, 28901), (13, 28934), (15, 28949),

Gene: RcigaStruga\_42 Start: 28950, Stop: 29168, Start Num: 3

Candidate Starts for RcigaStruga\_42:

(Start: 3 @28950 has 3 MA's), (7, 29028), (10, 29082), (11, 29085), (12, 29097), (14, 29136), (15, 29145),

Gene: Suppi\_42 Start: 28527, Stop: 28796, Start Num: 2

Candidate Starts for Suppi\_42:

(Start: 2 @28527 has 13 MA's), (4, 28572), (5, 28584), (8, 28683), (9, 28686), (12, 28722), (13, 28755), (15, 28770),

Gene: Wayne\_42 Start: 28573, Stop: 28842, Start Num: 2

Candidate Starts for Wayne\_42:

(Start: 2 @28573 has 13 MA's), (4, 28618), (5, 28630), (8, 28729), (9, 28732), (12, 28768), (13, 28801), (15, 28816),

