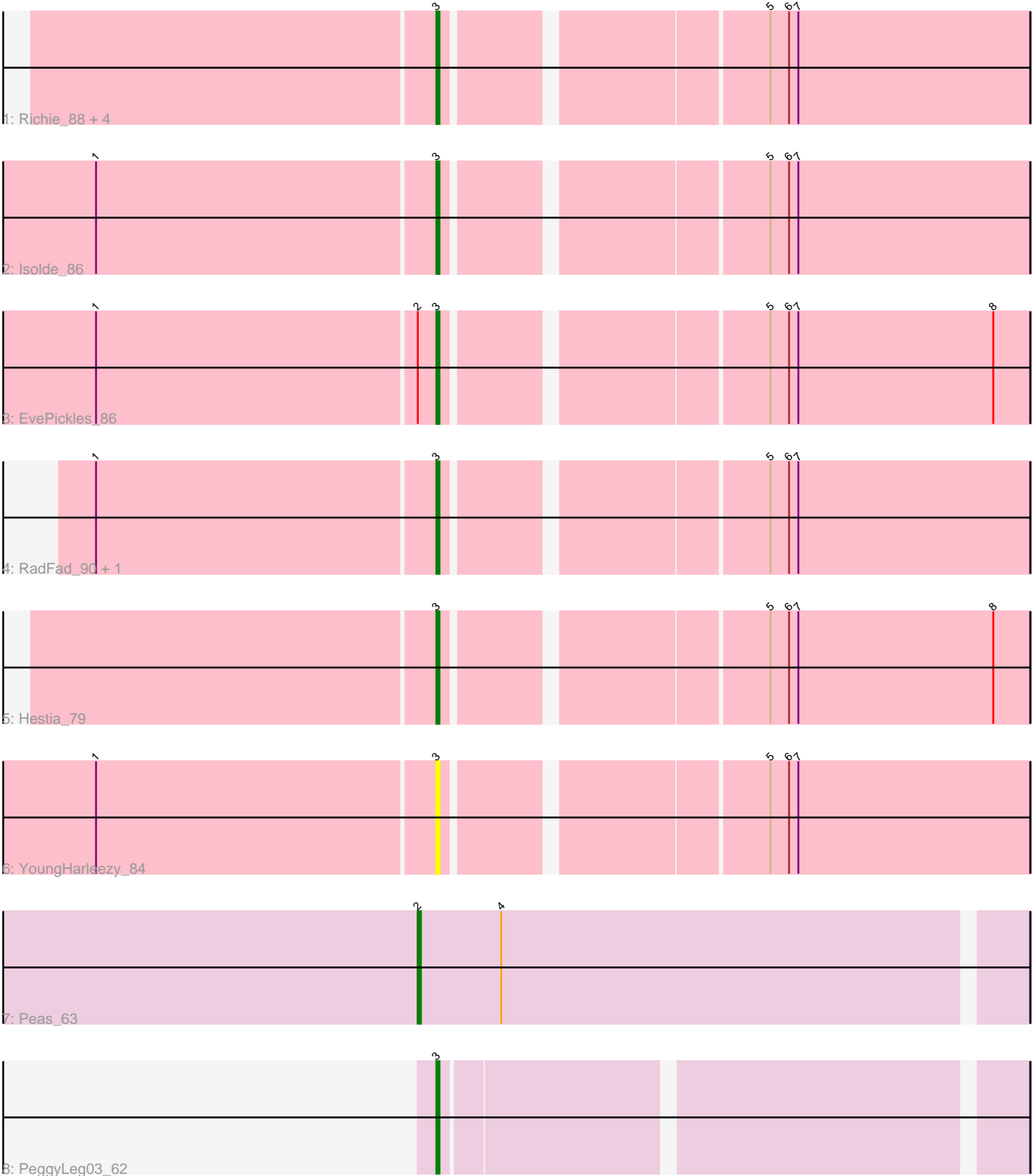


Pham 6435



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 6435 Report

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

Pham number 6435 has 13 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Richie\_88, MidnightRain\_91, BillyTP\_84, Raphaella\_83, BenchScraper\_82
- Track 2 : Isolde\_86
- Track 3 : EvePickles\_86
- Track 4 : RadFad\_90, Hillester\_89
- Track 5 : Hestia\_79
- Track 6 : YoungHarleezy\_84
- Track 7 : Peas\_63
- Track 8 : PeggyLeg03\_62

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

The start number called the most often in the published annotations is 3, it was called in 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BenchScraper\_82, BillyTP\_84, EvePickles\_86, Hestia\_79, Hillester\_89, Isolde\_86, MidnightRain\_91, PeggyLeg03\_62, RadFad\_90, Raphaella\_83, Richie\_88, YoungHarleezy\_84,

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

- 

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

- Peas\_63,

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

Start 2:

- Found in 2 of 13 ( 15.4% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Peas\_63 (FA),

Start 3:

- Found in 12 of 13 ( 92.3% ) of genes in pham
- Manual Annotations of this start: 7 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BenchScraper\_82 (AY), BillyTP\_84 (AY), EvePickles\_86 (AY), Hestia\_79 (AY), Hillester\_89 (AY), Isolde\_86 (AY), MidnightRain\_91 (AY), PeggyLeg03\_62 (FA), RadFad\_90 (AY), Raphaella\_83 (AY), Richie\_88 (AY), YoungHarleezy\_84 (AY),

### **Summary by clusters:**

There are 2 clusters represented in this pham: AY, FA,

Info for manual annotations of cluster AY:

- Start number 3 was manually annotated 6 times for cluster AY.

Info for manual annotations of cluster FA:

- Start number 2 was manually annotated 1 time for cluster FA.
- Start number 3 was manually annotated 1 time for cluster FA.

### **Gene Information:**

Gene: BenchScraper\_82 Start: 46811, Stop: 46990, Start Num: 3

Candidate Starts for BenchScraper\_82:

(Start: 3 @46811 has 7 MA's), (5, 46907), (6, 46913), (7, 46916),

Gene: BillyTP\_84 Start: 48917, Stop: 49096, Start Num: 3

Candidate Starts for BillyTP\_84:

(Start: 3 @48917 has 7 MA's), (5, 49013), (6, 49019), (7, 49022),

Gene: EvePickles\_86 Start: 49283, Stop: 49462, Start Num: 3

Candidate Starts for EvePickles\_86:

(1, 49175), (Start: 2 @49277 has 1 MA's), (Start: 3 @49283 has 7 MA's), (5, 49379), (6, 49385), (7, 49388), (8, 49451),

Gene: Hestia\_79 Start: 45786, Stop: 45965, Start Num: 3

Candidate Starts for Hestia\_79:

(Start: 3 @45786 has 7 MA's), (5, 45882), (6, 45888), (7, 45891), (8, 45954),

Gene: Hillester\_89 Start: 48533, Stop: 48712, Start Num: 3

Candidate Starts for Hillester\_89:

(1, 48425), (Start: 3 @48533 has 7 MA's), (5, 48629), (6, 48635), (7, 48638),

Gene: Isolde\_86 Start: 49022, Stop: 49201, Start Num: 3

Candidate Starts for Isolde\_86:

(1, 48914), (Start: 3 @49022 has 7 MA's), (5, 49118), (6, 49124), (7, 49127),

Gene: MidnightRain\_91 Start: 49369, Stop: 49548, Start Num: 3

Candidate Starts for MidnightRain\_91:

(Start: 3 @49369 has 7 MA's), (5, 49465), (6, 49471), (7, 49474),

Gene: Peas\_63 Start: 41407, Stop: 41598, Start Num: 2

Candidate Starts for Peas\_63:  
(Start: 2 @41407 has 1 MA's), (4, 41434),

Gene: PeggyLeg03\_62 Start: 40414, Stop: 40590, Start Num: 3  
Candidate Starts for PeggyLeg03\_62:  
(Start: 3 @40414 has 7 MA's),

Gene: RadFad\_90 Start: 48533, Stop: 48712, Start Num: 3  
Candidate Starts for RadFad\_90:  
(1, 48425), (Start: 3 @48533 has 7 MA's), (5, 48629), (6, 48635), (7, 48638),

Gene: Raphaella\_83 Start: 47150, Stop: 47329, Start Num: 3  
Candidate Starts for Raphaella\_83:  
(Start: 3 @47150 has 7 MA's), (5, 47246), (6, 47252), (7, 47255),

Gene: Richie\_88 Start: 49383, Stop: 49562, Start Num: 3  
Candidate Starts for Richie\_88:  
(Start: 3 @49383 has 7 MA's), (5, 49479), (6, 49485), (7, 49488),

Gene: YoungHarleezy\_84 Start: 48663, Stop: 48842, Start Num: 3  
Candidate Starts for YoungHarleezy\_84:  
(1, 48555), (Start: 3 @48663 has 7 MA's), (5, 48759), (6, 48765), (7, 48768),