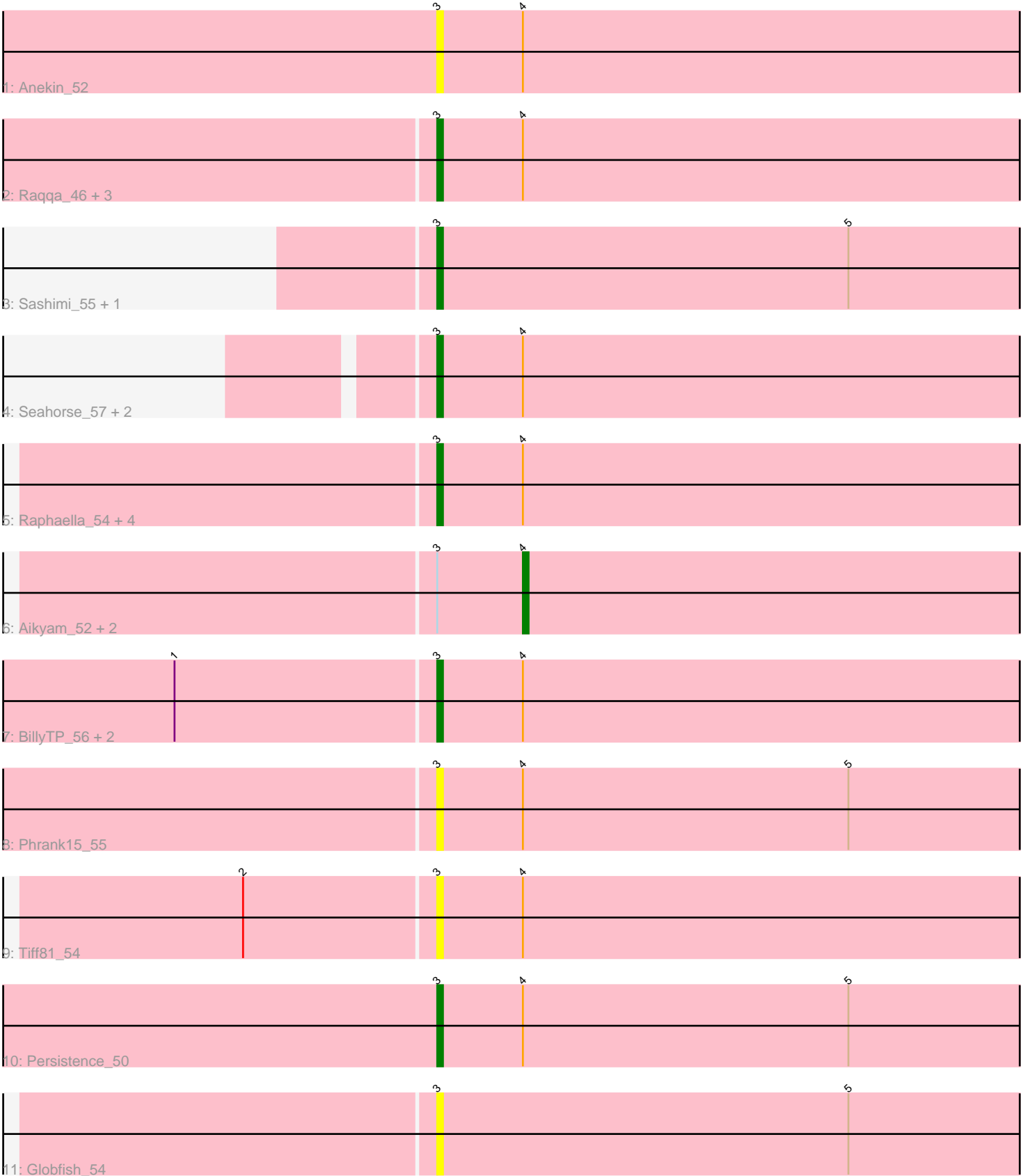


Pham 86877



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 86877 Report

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

Pham number 86877 has 25 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Anekin\_52
- Track 2 : Raqqa\_46, Hillester\_58, BenchScraper\_53, RadFad\_58
- Track 3 : Sashimi\_55, EvePickles\_50
- Track 4 : Seahorse\_57, Auxilium\_50, AbbyDaisy\_53
- Track 5 : Raphaella\_54, Sakai\_53, CookieBear\_54, Isolde\_53, Gorpy\_54
- Track 6 : Aikyam\_52, Richie\_56, YoungHarleezy\_54
- Track 7 : BillyTP\_56, Faja\_55, MidnightRain\_58
- Track 8 : Phrank15\_55
- Track 9 : Tiff81\_54
- Track 10 : Persistence\_50
- Track 11 : Globfish\_54

### ***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 11 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbyDaisy\_53, Anekin\_52, Auxilium\_50, BenchScraper\_53, BillyTP\_56, CookieBear\_54, EvePickles\_50, Faja\_55, Globfish\_54, Gorpy\_54, Hillester\_58, Isolde\_53, MidnightRain\_58, Persistence\_50, Phrank15\_55, RadFad\_58, Raphaella\_54, Raqqa\_46, Sakai\_53, Sashimi\_55, Seahorse\_57, Tiff81\_54,

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

- Aikyam\_52, Richie\_56, YoungHarleezy\_54,

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

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

Start 3:

- Found in 25 of 25 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 12

- Called 88.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy\_53 (AY), Anekin\_52 (AY), Auxilium\_50 (AY), BenchScraper\_53 (AY), BillyTP\_56 (AY), CookieBear\_54 (AY), EvePickles\_50 (AY), Faja\_55 (AY), Globfish\_54 (AY), Gorpy\_54 (AY), Hillester\_58 (AY), Isolde\_53 (AY), MidnightRain\_58 (AY), Persistence\_50 (AY), Phrank15\_55 (AY), RadFad\_58 (AY), Raphaella\_54 (AY), Raqqa\_46 (AY), Sakai\_53 (AY), Sashimi\_55 (AY), Seahorse\_57 (AY), Tiff81\_54 (AY),

Start 4:

- Found in 22 of 25 ( 88.0% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 13.6% of time when present
- Phage (with cluster) where this start called: Aikyam\_52 (AY), Richie\_56 (AY), YoungHarleezy\_54 (AY),

### **Summary by clusters:**

There is one cluster represented in this pham: AY

Info for manual annotations of cluster AY:

- Start number 3 was manually annotated 11 times for cluster AY.
- Start number 4 was manually annotated 1 time for cluster AY.

### **Gene Information:**

Gene: AbbyDaisy\_53 Start: 32841, Stop: 33065, Start Num: 3

Candidate Starts for AbbyDaisy\_53:

(Start: 3 @32841 has 11 MA's), (Start: 4 @32856 has 1 MA's),

Gene: Aikyam\_52 Start: 30569, Stop: 30778, Start Num: 4

Candidate Starts for Aikyam\_52:

(Start: 3 @30554 has 11 MA's), (Start: 4 @30569 has 1 MA's),

Gene: Anekin\_52 Start: 32394, Stop: 32618, Start Num: 3

Candidate Starts for Anekin\_52:

(Start: 3 @32394 has 11 MA's), (Start: 4 @32409 has 1 MA's),

Gene: Auxilium\_50 Start: 30112, Stop: 30336, Start Num: 3

Candidate Starts for Auxilium\_50:

(Start: 3 @30112 has 11 MA's), (Start: 4 @30127 has 1 MA's),

Gene: BenchScraper\_53 Start: 32279, Stop: 32503, Start Num: 3

Candidate Starts for BenchScraper\_53:

(Start: 3 @32279 has 11 MA's), (Start: 4 @32294 has 1 MA's),

Gene: BillyTP\_56 Start: 34150, Stop: 34374, Start Num: 3

Candidate Starts for BillyTP\_56:

(1, 34105), (Start: 3 @34150 has 11 MA's), (Start: 4 @34165 has 1 MA's),

Gene: CookieBear\_54 Start: 32534, Stop: 32758, Start Num: 3

Candidate Starts for CookieBear\_54:

(Start: 3 @32534 has 11 MA's), (Start: 4 @32549 has 1 MA's),

Gene: EvePickles\_50 Start: 32734, Stop: 32958, Start Num: 3

Candidate Starts for EvePickles\_50:

(Start: 3 @32734 has 11 MA's), (5, 32806),

Gene: Faja\_55 Start: 34118, Stop: 34342, Start Num: 3

Candidate Starts for Faja\_55:

(1, 34073), (Start: 3 @34118 has 11 MA's), (Start: 4 @34133 has 1 MA's),

Gene: Globfish\_54 Start: 32633, Stop: 32857, Start Num: 3

Candidate Starts for Globfish\_54:

(Start: 3 @32633 has 11 MA's), (5, 32705),

Gene: Gorpy\_54 Start: 33526, Stop: 33750, Start Num: 3

Candidate Starts for Gorpy\_54:

(Start: 3 @33526 has 11 MA's), (Start: 4 @33541 has 1 MA's),

Gene: Hillester\_58 Start: 33876, Stop: 34100, Start Num: 3

Candidate Starts for Hillester\_58:

(Start: 3 @33876 has 11 MA's), (Start: 4 @33891 has 1 MA's),

Gene: Isolde\_53 Start: 32203, Stop: 32427, Start Num: 3

Candidate Starts for Isolde\_53:

(Start: 3 @32203 has 11 MA's), (Start: 4 @32218 has 1 MA's),

Gene: MidnightRain\_58 Start: 34057, Stop: 34281, Start Num: 3

Candidate Starts for MidnightRain\_58:

(1, 34012), (Start: 3 @34057 has 11 MA's), (Start: 4 @34072 has 1 MA's),

Gene: Persistence\_50 Start: 31673, Stop: 31897, Start Num: 3

Candidate Starts for Persistence\_50:

(Start: 3 @31673 has 11 MA's), (Start: 4 @31688 has 1 MA's), (5, 31745),

Gene: Phrank15\_55 Start: 32437, Stop: 32661, Start Num: 3

Candidate Starts for Phrank15\_55:

(Start: 3 @32437 has 11 MA's), (Start: 4 @32452 has 1 MA's), (5, 32509),

Gene: RadFad\_58 Start: 33876, Stop: 34100, Start Num: 3

Candidate Starts for RadFad\_58:

(Start: 3 @33876 has 11 MA's), (Start: 4 @33891 has 1 MA's),

Gene: Raphaella\_54 Start: 32135, Stop: 32359, Start Num: 3

Candidate Starts for Raphaella\_54:

(Start: 3 @32135 has 11 MA's), (Start: 4 @32150 has 1 MA's),

Gene: Raqqa\_46 Start: 29741, Stop: 29965, Start Num: 3

Candidate Starts for Raqqa\_46:

(Start: 3 @29741 has 11 MA's), (Start: 4 @29756 has 1 MA's),

Gene: Richie\_56 Start: 33219, Stop: 33428, Start Num: 4

Candidate Starts for Richie\_56:

(Start: 3 @33204 has 11 MA's), (Start: 4 @33219 has 1 MA's),

Gene: Sakai\_53 Start: 32237, Stop: 32461, Start Num: 3  
Candidate Starts for Sakai\_53:  
(Start: 3 @32237 has 11 MA's), (Start: 4 @32252 has 1 MA's),

Gene: Sashimi\_55 Start: 33468, Stop: 33692, Start Num: 3  
Candidate Starts for Sashimi\_55:  
(Start: 3 @33468 has 11 MA's), (5, 33540),

Gene: Seahorse\_57 Start: 34470, Stop: 34694, Start Num: 3  
Candidate Starts for Seahorse\_57:  
(Start: 3 @34470 has 11 MA's), (Start: 4 @34485 has 1 MA's),

Gene: Tiff81\_54 Start: 30648, Stop: 30872, Start Num: 3  
Candidate Starts for Tiff81\_54:  
(2, 30615), (Start: 3 @30648 has 11 MA's), (Start: 4 @30663 has 1 MA's),

Gene: YoungHarleezy\_54 Start: 32716, Stop: 32925, Start Num: 4  
Candidate Starts for YoungHarleezy\_54:  
(Start: 3 @32701 has 11 MA's), (Start: 4 @32716 has 1 MA's),