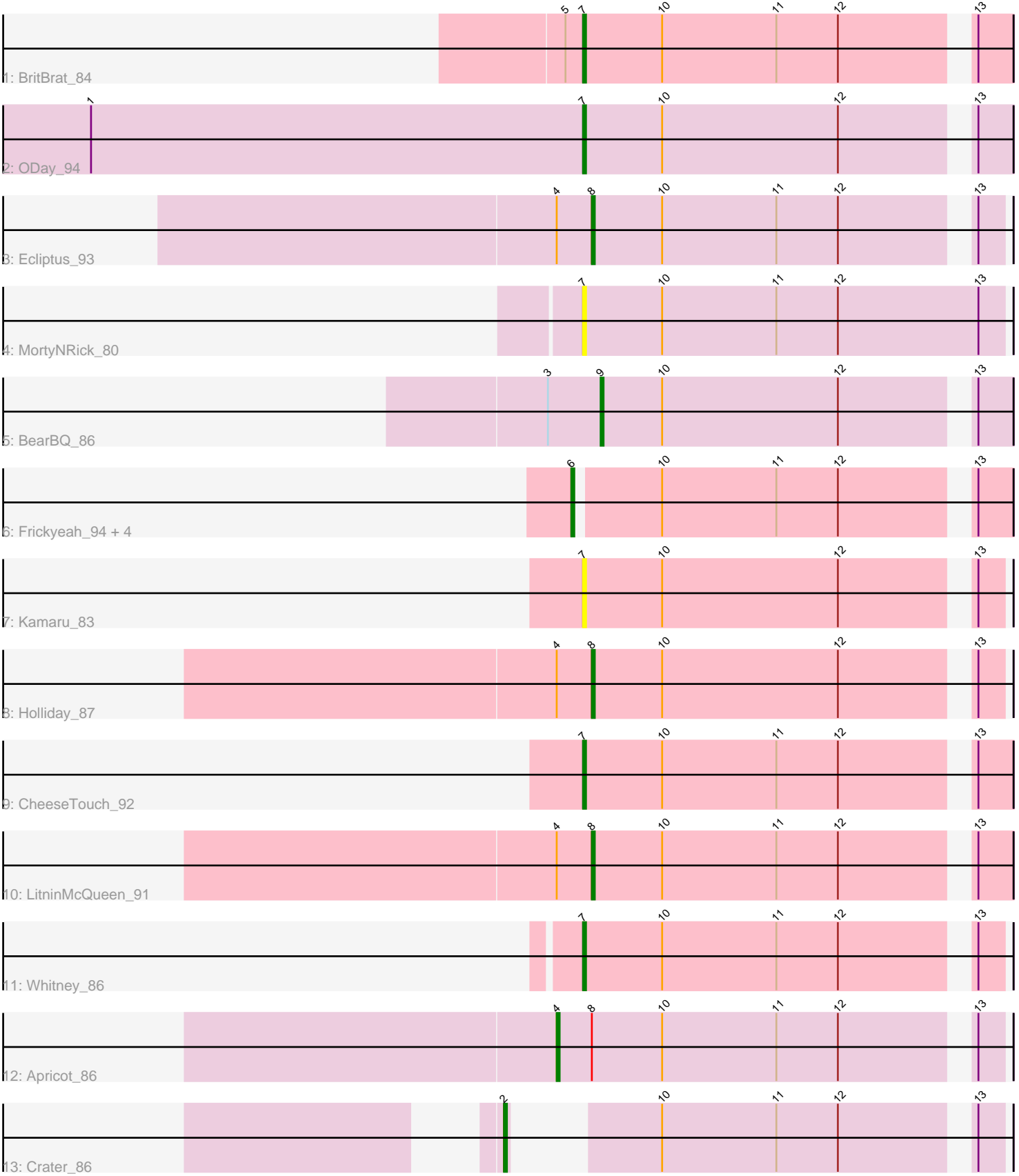


Pham 86920



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 86920 Report

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

Pham number 86920 has 17 members, 3 are drafts.

Phages represented in each track:

- Track 1 : BritBrat\_84
- Track 2 : ODay\_94
- Track 3 : Ecliptus\_93
- Track 4 : MortyNRick\_80
- Track 5 : BearBQ\_86
- Track 6 : Frickyeh\_94, Periwinkle\_96, Horus\_88, Leroy\_87, Phistory\_84
- Track 7 : Kamaru\_83
- Track 8 : Holliday\_87
- Track 9 : CheeseTouch\_92
- Track 10 : LitninMcQueen\_91
- Track 11 : Whitney\_86
- Track 12 : Apricot\_86
- Track 13 : Crater\_86

### ***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 4 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Frickyeh\_94, Horus\_88, Leroy\_87, Periwinkle\_96, Phistory\_84,

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

- 

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

- Apricot\_86, BearBQ\_86, BritBrat\_84, CheeseTouch\_92, Crater\_86, Ecliptus\_93, Holliday\_87, Kamaru\_83, LitninMcQueen\_91, MortyNRick\_80, ODay\_94, Whitney\_86,

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

Start 2:

- Found in 1 of 17 ( 5.9% ) of genes in pham

- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Crater\_86 (DN3),

Start 4:

- Found in 4 of 17 ( 23.5% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Apricot\_86 (DN3),

Start 6:

- Found in 5 of 17 ( 29.4% ) of genes in pham
- Manual Annotations of this start: 4 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Frickyeh\_94 (DN1), Horus\_88 (DN1), Leroy\_87 (DN1), Periwinkle\_96 (DN1), Phistory\_84 (DN1),

Start 7:

- Found in 6 of 17 ( 35.3% ) of genes in pham
- Manual Annotations of this start: 4 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BritBrat\_84 (CY2), CheeseTouch\_92 (DN1), Kamaru\_83 (DN1), MortyNRick\_80 (DN), ODay\_94 (DN), Whitney\_86 (DN1),

Start 8:

- Found in 4 of 17 ( 23.5% ) of genes in pham
- Manual Annotations of this start: 3 of 14
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Ecliptus\_93 (DN), Holliday\_87 (DN1), LitninMcQueen\_91 (DN1),

Start 9:

- Found in 1 of 17 ( 5.9% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BearBQ\_86 (DN),

### **Summary by clusters:**

There are 4 clusters represented in this pham: DN, CY2, DN1, DN3,

Info for manual annotations of cluster CY2:

- Start number 7 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster DN:

- Start number 7 was manually annotated 1 time for cluster DN.
- Start number 8 was manually annotated 1 time for cluster DN.
- Start number 9 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 6 was manually annotated 4 times for cluster DN1.
- Start number 7 was manually annotated 2 times for cluster DN1.
- Start number 8 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster DN3:

- Start number 2 was manually annotated 1 time for cluster DN3.
- Start number 4 was manually annotated 1 time for cluster DN3.

**Gene Information:**

Gene: Apricot\_86 Start: 46949, Stop: 47092, Start Num: 4

Candidate Starts for Apricot\_86:

(Start: 4 @46949 has 1 MA's), (Start: 8 @46961 has 3 MA's), (10, 46985), (11, 47024), (12, 47045), (13, 47084),

Gene: BearBQ\_86 Start: 49168, Stop: 49299, Start Num: 9

Candidate Starts for BearBQ\_86:

(3, 49150), (Start: 9 @49168 has 1 MA's), (10, 49189), (12, 49249), (13, 49288),

Gene: BritBrat\_84 Start: 50092, Stop: 50229, Start Num: 7

Candidate Starts for BritBrat\_84:

(5, 50086), (Start: 7 @50092 has 4 MA's), (10, 50119), (11, 50158), (12, 50179), (13, 50218),

Gene: CheeseTouch\_92 Start: 45624, Stop: 45761, Start Num: 7

Candidate Starts for CheeseTouch\_92:

(Start: 7 @45624 has 4 MA's), (10, 45651), (11, 45690), (12, 45711), (13, 45750),

Gene: Crater\_86 Start: 47302, Stop: 47436, Start Num: 2

Candidate Starts for Crater\_86:

(Start: 2 @47302 has 1 MA's), (10, 47329), (11, 47368), (12, 47389), (13, 47428),

Gene: Ecliptus\_93 Start: 50504, Stop: 50635, Start Num: 8

Candidate Starts for Ecliptus\_93:

(Start: 4 @50492 has 1 MA's), (Start: 8 @50504 has 3 MA's), (10, 50528), (11, 50567), (12, 50588), (13, 50627),

Gene: Frickyeh\_94 Start: 49193, Stop: 49330, Start Num: 6

Candidate Starts for Frickyeh\_94:

(Start: 6 @49193 has 4 MA's), (10, 49220), (11, 49259), (12, 49280), (13, 49319),

Gene: Holliday\_87 Start: 50519, Stop: 50650, Start Num: 8

Candidate Starts for Holliday\_87:

(Start: 4 @50507 has 1 MA's), (Start: 8 @50519 has 3 MA's), (10, 50543), (12, 50603), (13, 50642),

Gene: Horus\_88 Start: 49468, Stop: 49605, Start Num: 6

Candidate Starts for Horus\_88:

(Start: 6 @49468 has 4 MA's), (10, 49495), (11, 49534), (12, 49555), (13, 49594),

Gene: Kamaru\_83 Start: 46898, Stop: 47032, Start Num: 7

Candidate Starts for Kamaru\_83:

(Start: 7 @46898 has 4 MA's), (10, 46925), (12, 46985), (13, 47024),

Gene: Leroy\_87 Start: 47663, Stop: 47800, Start Num: 6

Candidate Starts for Leroy\_87:

(Start: 6 @47663 has 4 MA's), (10, 47690), (11, 47729), (12, 47750), (13, 47789),

Gene: LitninMcQueen\_91 Start: 48817, Stop: 48951, Start Num: 8

Candidate Starts for LitninMcQueen\_91:

(Start: 4 @48805 has 1 MA's), (Start: 8 @48817 has 3 MA's), (10, 48841), (11, 48880), (12, 48901), (13, 48940),

Gene: MortyNRick\_80 Start: 47388, Stop: 47531, Start Num: 7

Candidate Starts for MortyNRick\_80:

(Start: 7 @47388 has 4 MA's), (10, 47415), (11, 47454), (12, 47475), (13, 47523),

Gene: ODay\_94 Start: 50853, Stop: 50990, Start Num: 7

Candidate Starts for ODay\_94:

(1, 50685), (Start: 7 @50853 has 4 MA's), (10, 50880), (12, 50940), (13, 50979),

Gene: Periwinkle\_96 Start: 50470, Stop: 50607, Start Num: 6

Candidate Starts for Periwinkle\_96:

(Start: 6 @50470 has 4 MA's), (10, 50497), (11, 50536), (12, 50557), (13, 50596),

Gene: Phistory\_84 Start: 46566, Stop: 46700, Start Num: 6

Candidate Starts for Phistory\_84:

(Start: 6 @46566 has 4 MA's), (10, 46593), (11, 46632), (12, 46653), (13, 46692),

Gene: Whitney\_86 Start: 49775, Stop: 49909, Start Num: 7

Candidate Starts for Whitney\_86:

(Start: 7 @49775 has 4 MA's), (10, 49802), (11, 49841), (12, 49862), (13, 49901),