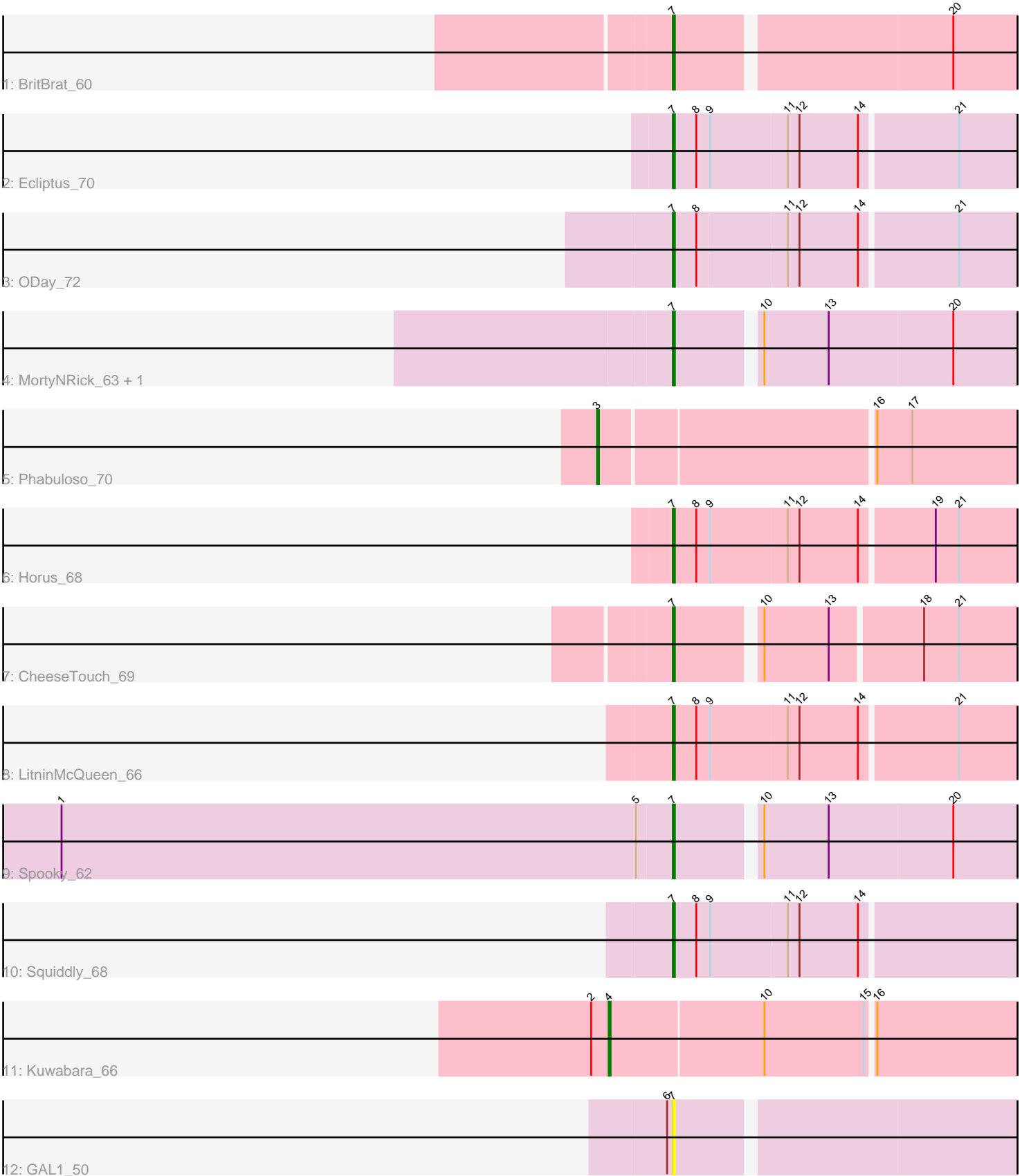


Pham 87421



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 87421 Report

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

Pham number 87421 has 13 members, 2 are drafts.

Phages represented in each track:

- Track 1 : BritBrat\_60
- Track 2 : Ecliptus\_70
- Track 3 : ODay\_72
- Track 4 : MortyNRick\_63, BearBQ\_65
- Track 5 : Phabuloso\_70
- Track 6 : Horus\_68
- Track 7 : CheeseTouch\_69
- Track 8 : LitninMcQueen\_66
- Track 9 : Spooky\_62
- Track 10 : Squiddly\_68
- Track 11 : Kuwabara\_66
- Track 12 : GAL1\_50

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

The start number called the most often in the published annotations is 7, it was called in 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BearBQ\_65, BritBrat\_60, CheeseTouch\_69, Ecliptus\_70, GAL1\_50, Horus\_68, LitninMcQueen\_66, MortyNRick\_63, ODay\_72, Spooky\_62, Squiddly\_68,

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

- 

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

- Kuwabara\_66, Phabuloso\_70,

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

Start 3:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Phabuloso\_70 (DN1),

Start 4:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kuwabara\_66 (DN4),

Start 7:

- Found in 11 of 13 ( 84.6% ) of genes in pham
- Manual Annotations of this start: 9 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BearBQ\_65 (DN), BritBrat\_60 (CY2), CheeseTouch\_69 (DN1), Ecliptus\_70 (DN), GAL1\_50 (singleton), Horus\_68 (DN1), LitninMcQueen\_66 (DN1), MortyNRick\_63 (DN), ODay\_72 (DN), Spooky\_62 (DN2), Squiddly\_68 (DN2),

### **Summary by clusters:**

There are 6 clusters represented in this pham: DN, CY2, singleton, DN4, DN1, DN2,

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 3 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 3 was manually annotated 1 time for cluster DN1.
- Start number 7 was manually annotated 3 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 7 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN4:

- Start number 4 was manually annotated 1 time for cluster DN4.

### **Gene Information:**

Gene: BearBQ\_65 Start: 41742, Stop: 41960, Start Num: 7

Candidate Starts for BearBQ\_65:

(Start: 7 @41742 has 9 MA's), (10, 41781), (13, 41814), (20, 41877),

Gene: BritBrat\_60 Start: 41074, Stop: 41292, Start Num: 7

Candidate Starts for BritBrat\_60:

(Start: 7 @41074 has 9 MA's), (20, 41209),

Gene: CheeseTouch\_69 Start: 37175, Stop: 37390, Start Num: 7

Candidate Starts for CheeseTouch\_69:

(Start: 7 @37175 has 9 MA's), (10, 37214), (13, 37247), (18, 37292), (21, 37310),

Gene: Ecliptus\_70 Start: 42604, Stop: 42825, Start Num: 7

Candidate Starts for Ecliptus\_70:

(Start: 7 @42604 has 9 MA's), (8, 42616), (9, 42622), (11, 42661), (12, 42667), (14, 42697), (21, 42745),

Gene: GAL1\_50 Start: 35370, Stop: 35588, Start Num: 7

Candidate Starts for GAL1\_50:

(6, 35367), (Start: 7 @35370 has 9 MA's),

Gene: Horus\_68 Start: 41809, Stop: 42030, Start Num: 7

Candidate Starts for Horus\_68:

(Start: 7 @41809 has 9 MA's), (8, 41821), (9, 41827), (11, 41866), (12, 41872), (14, 41902), (19, 41938), (21, 41950),

Gene: Kuwabara\_66 Start: 41575, Stop: 41829, Start Num: 4

Candidate Starts for Kuwabara\_66:

(2, 41566), (Start: 4 @41575 has 1 MA's), (10, 41653), (15, 41704), (16, 41707),

Gene: LitninMcQueen\_66 Start: 40759, Stop: 40980, Start Num: 7

Candidate Starts for LitninMcQueen\_66:

(Start: 7 @40759 has 9 MA's), (8, 40771), (9, 40777), (11, 40816), (12, 40822), (14, 40852), (21, 40900),

Gene: MortyNRick\_63 Start: 41867, Stop: 42085, Start Num: 7

Candidate Starts for MortyNRick\_63:

(Start: 7 @41867 has 9 MA's), (10, 41906), (13, 41939), (20, 42002),

Gene: ODay\_72 Start: 42752, Stop: 42973, Start Num: 7

Candidate Starts for ODay\_72:

(Start: 7 @42752 has 9 MA's), (8, 42764), (11, 42809), (12, 42815), (14, 42845), (21, 42893),

Gene: Phabuloso\_70 Start: 41178, Stop: 41435, Start Num: 3

Candidate Starts for Phabuloso\_70:

(Start: 3 @41178 has 1 MA's), (16, 41313), (17, 41331),

Gene: Spooky\_62 Start: 39581, Stop: 39799, Start Num: 7

Candidate Starts for Spooky\_62:

(1, 39269), (5, 39563), (Start: 7 @39581 has 9 MA's), (10, 39620), (13, 39653), (20, 39716),

Gene: Squiddly\_68 Start: 44420, Stop: 44641, Start Num: 7

Candidate Starts for Squiddly\_68:

(Start: 7 @44420 has 9 MA's), (8, 44432), (9, 44438), (11, 44477), (12, 44483), (14, 44513),