



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 87032 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87032 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : HumptyDumpty\_70, Scavito\_71, Linus\_70, Chocolat\_70, RosiePosie\_70, EdgarPoe\_69, Conboy\_69, Chipper1996\_710, Tophat\_71, PrincessTrina\_71
- Track 2 : ArV1\_058
- Track 3 : Chubster\_71, Kabreeze\_70
- Track 4 : Lymara\_66

### ***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 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chipper1996\_710, Chocolat\_70, Chubster\_71, Conboy\_69, EdgarPoe\_69, HumptyDumpty\_70, Kabreeze\_70, Linus\_70, PrincessTrina\_71, RosiePosie\_70, Scavito\_71, Tophat\_71,

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

- ArV1\_058, Lymara\_66,

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

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

Start 6:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV1\_058 (AR),

Start 7:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 13
- Called 85.7% of time when present

- Phage (with cluster) where this start called: Chipper1996\_710 (AR), Chocolat\_70 (AR), Chubster\_71 (AR), Conboy\_69 (AR), EdgarPoe\_69 (AR), HumptyDumpty\_70 (AR), Kabreeze\_70 (AR), Linus\_70 (AR), PrincessTrina\_71 (AR), RosiePosie\_70 (AR), Scavito\_71 (AR), Tophat\_71 (AR),

Start 8:

- Found in 2 of 14 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Lymara\_66 (AR),

### **Summary by clusters:**

There is one cluster represented in this pham: AR

Info for manual annotations of cluster AR:

- Start number 7 was manually annotated 12 times for cluster AR.
- Start number 8 was manually annotated 1 time for cluster AR.

### **Gene Information:**

Gene: ArV1\_058 Start: 46273, Stop: 46575, Start Num: 6

Candidate Starts for ArV1\_058:

(6, 46273), (Start: 7 @46345 has 12 MA's), (Start: 8 @46360 has 1 MA's), (9, 46408), (10, 46414), (11, 46468),

Gene: Chipper1996\_710 Start: 47630, Stop: 47860, Start Num: 7

Candidate Starts for Chipper1996\_710:

(1, 47423), (2, 47432), (3, 47435), (4, 47459), (5, 47489), (Start: 7 @47630 has 12 MA's), (9, 47693), (10, 47699), (12, 47828),

Gene: Chocolat\_70 Start: 47655, Stop: 47885, Start Num: 7

Candidate Starts for Chocolat\_70:

(1, 47448), (2, 47457), (3, 47460), (4, 47484), (5, 47514), (Start: 7 @47655 has 12 MA's), (9, 47718), (10, 47724), (12, 47853),

Gene: Chubster\_71 Start: 47827, Stop: 48057, Start Num: 7

Candidate Starts for Chubster\_71:

(Start: 7 @47827 has 12 MA's), (9, 47890), (10, 47896), (12, 48025),

Gene: Conboy\_69 Start: 47494, Stop: 47724, Start Num: 7

Candidate Starts for Conboy\_69:

(1, 47287), (2, 47296), (3, 47299), (4, 47323), (5, 47353), (Start: 7 @47494 has 12 MA's), (9, 47557), (10, 47563), (12, 47692),

Gene: EdgarPoe\_69 Start: 47494, Stop: 47724, Start Num: 7

Candidate Starts for EdgarPoe\_69:

(1, 47287), (2, 47296), (3, 47299), (4, 47323), (5, 47353), (Start: 7 @47494 has 12 MA's), (9, 47557), (10, 47563), (12, 47692),

Gene: HumptyDumpty\_70 Start: 47615, Stop: 47845, Start Num: 7

Candidate Starts for HumptyDumpty\_70:

(1, 47408), (2, 47417), (3, 47420), (4, 47444), (5, 47474), (Start: 7 @47615 has 12 MA's), (9, 47678), (10, 47684), (12, 47813),

Gene: Kabreeze\_70 Start: 47672, Stop: 47902, Start Num: 7

Candidate Starts for Kabreeze\_70:

(Start: 7 @47672 has 12 MA's), (9, 47735), (10, 47741), (12, 47870),

Gene: Linus\_70 Start: 47793, Stop: 48023, Start Num: 7

Candidate Starts for Linus\_70:

(1, 47586), (2, 47595), (3, 47598), (4, 47622), (5, 47652), (Start: 7 @47793 has 12 MA's), (9, 47856), (10, 47862), (12, 47991),

Gene: Lymara\_66 Start: 45942, Stop: 46157, Start Num: 8

Candidate Starts for Lymara\_66:

(Start: 7 @45927 has 12 MA's), (Start: 8 @45942 has 1 MA's), (9, 45990), (10, 45996), (12, 46125),

Gene: PrincessTrina\_71 Start: 47698, Stop: 47928, Start Num: 7

Candidate Starts for PrincessTrina\_71:

(1, 47491), (2, 47500), (3, 47503), (4, 47527), (5, 47557), (Start: 7 @47698 has 12 MA's), (9, 47761), (10, 47767), (12, 47896),

Gene: RosiePosie\_70 Start: 47482, Stop: 47712, Start Num: 7

Candidate Starts for RosiePosie\_70:

(1, 47275), (2, 47284), (3, 47287), (4, 47311), (5, 47341), (Start: 7 @47482 has 12 MA's), (9, 47545), (10, 47551), (12, 47680),

Gene: Scavito\_71 Start: 47760, Stop: 47990, Start Num: 7

Candidate Starts for Scavito\_71:

(1, 47553), (2, 47562), (3, 47565), (4, 47589), (5, 47619), (Start: 7 @47760 has 12 MA's), (9, 47823), (10, 47829), (12, 47958),

Gene: Tophat\_71 Start: 47631, Stop: 47861, Start Num: 7

Candidate Starts for Tophat\_71:

(1, 47424), (2, 47433), (3, 47436), (4, 47460), (5, 47490), (Start: 7 @47631 has 12 MA's), (9, 47694), (10, 47700), (12, 47829),