



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 87228 Report

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

Pham number 87228 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Salk\_71, Djungelskog\_70, StarLord\_71, Egad\_71, Michelle\_71, Stayer\_71, BronxBay\_71, Shiba\_70, Sloopyjoe\_71, Linda\_71, MrAaronian\_71
- Track 2 : Sporto\_70
- Track 3 : Elver\_129, Qui\_130, Paella\_130

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

The start number called the most often in the published annotations is 2, it was called in 12 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BronxBay\_71, Djungelskog\_70, Egad\_71, Linda\_71, Michelle\_71, MrAaronian\_71, Salk\_71, Shiba\_70, Sloopyjoe\_71, Sporto\_70, StarLord\_71, Stayer\_71,

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

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

- Elver\_129, Paella\_130, Qui\_130,

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

Start 1:

- Found in 3 of 15 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver\_129 (FK), Paella\_130 (FK), Qui\_130 (FK),

Start 2:

- Found in 12 of 15 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 12 of 14
- Called 100.0% of time when present

- Phage (with cluster) where this start called: BronxBay\_71 (AW), Djungelskog\_70 (AW), Egad\_71 (AW), Linda\_71 (AW), Michelle\_71 (AW), MrAaronian\_71 (AW), Salk\_71 (AW), Shiba\_70 (AW), Sloopyjoe\_71 (AW), Sporto\_70 (AW), StarLord\_71 (AW), Stayer\_71 (AW),

### **Summary by clusters:**

There are 2 clusters represented in this pham: FK, AW,

Info for manual annotations of cluster AW:

- Start number 2 was manually annotated 12 times for cluster AW.

Info for manual annotations of cluster FK:

- Start number 1 was manually annotated 2 times for cluster FK.

### **Gene Information:**

Gene: BronxBay\_71 Start: 44793, Stop: 45119, Start Num: 2

Candidate Starts for BronxBay\_71:

(Start: 2 @44793 has 12 MA's), (5, 44859), (8, 44931), (9, 44952), (10, 44958), (11, 44973), (12, 44994), (14, 45027), (15, 45048), (16, 45081),

Gene: Djungelskog\_70 Start: 44795, Stop: 45121, Start Num: 2

Candidate Starts for Djungelskog\_70:

(Start: 2 @44795 has 12 MA's), (5, 44861), (8, 44933), (9, 44954), (10, 44960), (11, 44975), (12, 44996), (14, 45029), (15, 45050), (16, 45083),

Gene: Egad\_71 Start: 44771, Stop: 45097, Start Num: 2

Candidate Starts for Egad\_71:

(Start: 2 @44771 has 12 MA's), (5, 44837), (8, 44909), (9, 44930), (10, 44936), (11, 44951), (12, 44972), (14, 45005), (15, 45026), (16, 45059),

Gene: Elver\_129 Start: 70114, Stop: 70461, Start Num: 1

Candidate Starts for Elver\_129:

(Start: 1 @70114 has 2 MA's), (13, 70372), (14, 70375),

Gene: Linda\_71 Start: 44790, Stop: 45116, Start Num: 2

Candidate Starts for Linda\_71:

(Start: 2 @44790 has 12 MA's), (5, 44856), (8, 44928), (9, 44949), (10, 44955), (11, 44970), (12, 44991), (14, 45024), (15, 45045), (16, 45078),

Gene: Michelle\_71 Start: 44792, Stop: 45118, Start Num: 2

Candidate Starts for Michelle\_71:

(Start: 2 @44792 has 12 MA's), (5, 44858), (8, 44930), (9, 44951), (10, 44957), (11, 44972), (12, 44993), (14, 45026), (15, 45047), (16, 45080),

Gene: MrAaronian\_71 Start: 44792, Stop: 45118, Start Num: 2

Candidate Starts for MrAaronian\_71:

(Start: 2 @44792 has 12 MA's), (5, 44858), (8, 44930), (9, 44951), (10, 44957), (11, 44972), (12, 44993), (14, 45026), (15, 45047), (16, 45080),

Gene: Paella\_130 Start: 70677, Stop: 71024, Start Num: 1

Candidate Starts for Paella\_130:

(Start: 1 @70677 has 2 MA's), (13, 70935), (14, 70938),

Gene: Qui\_130 Start: 70677, Stop: 71024, Start Num: 1

Candidate Starts for Qui\_130:

(Start: 1 @70677 has 2 MA's), (13, 70935), (14, 70938),

Gene: Salk\_71 Start: 44790, Stop: 45116, Start Num: 2

Candidate Starts for Salk\_71:

(Start: 2 @44790 has 12 MA's), (5, 44856), (8, 44928), (9, 44949), (10, 44955), (11, 44970), (12, 44991), (14, 45024), (15, 45045), (16, 45078),

Gene: Shiba\_70 Start: 44448, Stop: 44774, Start Num: 2

Candidate Starts for Shiba\_70:

(Start: 2 @44448 has 12 MA's), (5, 44514), (8, 44586), (9, 44607), (10, 44613), (11, 44628), (12, 44649), (14, 44682), (15, 44703), (16, 44736),

Gene: Sloopyjoe\_71 Start: 44794, Stop: 45120, Start Num: 2

Candidate Starts for Sloopyjoe\_71:

(Start: 2 @44794 has 12 MA's), (5, 44860), (8, 44932), (9, 44953), (10, 44959), (11, 44974), (12, 44995), (14, 45028), (15, 45049), (16, 45082),

Gene: Sporto\_70 Start: 45873, Stop: 46199, Start Num: 2

Candidate Starts for Sporto\_70:

(Start: 2 @45873 has 12 MA's), (3, 45921), (4, 45933), (6, 45969), (7, 45993), (9, 46032), (10, 46038), (11, 46053), (12, 46074), (14, 46107), (15, 46128),

Gene: StarLord\_71 Start: 44787, Stop: 45113, Start Num: 2

Candidate Starts for StarLord\_71:

(Start: 2 @44787 has 12 MA's), (5, 44853), (8, 44925), (9, 44946), (10, 44952), (11, 44967), (12, 44988), (14, 45021), (15, 45042), (16, 45075),

Gene: Stayer\_71 Start: 44790, Stop: 45116, Start Num: 2

Candidate Starts for Stayer\_71:

(Start: 2 @44790 has 12 MA's), (5, 44856), (8, 44928), (9, 44949), (10, 44955), (11, 44970), (12, 44991), (14, 45024), (15, 45045), (16, 45078),