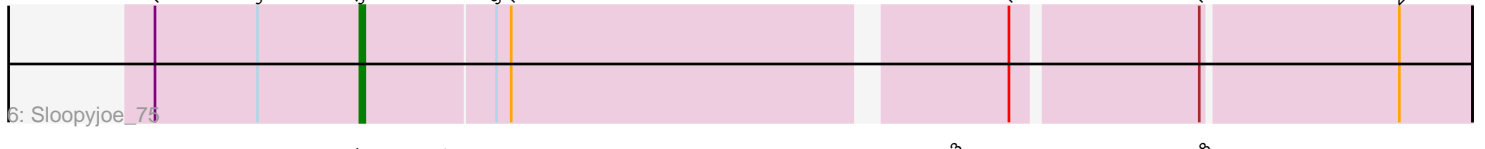


Pham 309086



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 309086 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309086 has 27 members, 8 are drafts.

Phages represented in each track:

- Track 1 : KevinMinion\_86, Argan\_88, Uzumaki\_88
- Track 2 : HerbBucket\_74
- Track 3 : MrAaronian\_75, DoctorPepper\_74, Djungelskog\_74, Spain\_75, Egad\_75, Stayer\_75, Raunak\_76, StarLord\_75, BronxBay\_75, Shiba\_74, ProfFrink\_75, Jeremy4pt0\_74
- Track 4 : Salk\_75, Linda\_75, Boog\_74
- Track 5 : Onestar\_74
- Track 6 : Sloopyjoe\_75
- Track 7 : Sporto\_74
- Track 8 : Michelle\_75
- Track 9 : Gandionco\_247
- Track 10 : Kureo\_243, JeNeSaisPas\_239
- Track 11 : Marianna39\_247

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

The start number called the most often in the published annotations is 5, it was called in 14 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Boog\_74, BronxBay\_75, Djungelskog\_74, DoctorPepper\_74, Egad\_75, HerbBucket\_74, Jeremy4pt0\_74, Linda\_75, MrAaronian\_75, Onestar\_74, ProfFrink\_75, Raunak\_76, Salk\_75, Shiba\_74, Sloopyjoe\_75, Spain\_75, StarLord\_75, Stayer\_75,

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

- Michelle\_75, Sporto\_74,

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

- Argan\_88, Gandionco\_247, JeNeSaisPas\_239, KevinMinion\_86, Kureo\_243, Marianna39\_247, Uzumaki\_88,

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

Start 2:

- Found in 2 of 27 ( 7.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Gandionco\_247 (FK),

Start 4:

- Found in 5 of 27 ( 18.5% ) of genes in pham
- Manual Annotations of this start: 3 of 19
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Argan\_88 (AU6), KevinMinion\_86 (AU6), Marianna39\_247 (FK), Uzumaki\_88 (AU6),

Start 5:

- Found in 20 of 27 ( 74.1% ) of genes in pham
- Manual Annotations of this start: 14 of 19
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Boog\_74 (AW), BronxBay\_75 (AW), Djungelskog\_74 (AW), DoctorPepper\_74 (AW), Egad\_75 (AW), HerbBucket\_74 (AW), Jeremy4pt0\_74 (AW), Linda\_75 (AW), MrAaronian\_75 (AW), Onestar\_74 (AW), ProfFrink\_75 (AW), Raunak\_76 (AW), Salk\_75 (AW), Shiba\_74 (AW), Sloopyjoe\_75 (AW), Spain\_75 (AW), StarLord\_75 (AW), Stayer\_75 (AW),

Start 6:

- Found in 2 of 27 ( 7.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JeNeSaisPas\_239 (FK), Kureo\_243 (FK),

Start 8:

- Found in 1 of 27 ( 3.7% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sporto\_74 (AW),

Start 10:

- Found in 14 of 27 ( 51.9% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Michelle\_75 (AW),

**Summary by clusters:**

There are 3 clusters represented in this pham: FK, AW, AU6,

Info for manual annotations of cluster AU6:

- Start number 4 was manually annotated 3 times for cluster AU6.

Info for manual annotations of cluster AW:

- Start number 5 was manually annotated 14 times for cluster AW.
- Start number 8 was manually annotated 1 time for cluster AW.
- Start number 10 was manually annotated 1 time for cluster AW.

**Gene Information:**

Gene: Argan\_88 Start: 50665, Stop: 50889, Start Num: 4

Candidate Starts for Argan\_88:

(Start: 4 @50665 has 3 MA's), (15, 50803), (16, 50809), (20, 50854), (21, 50857),

Gene: Boog\_74 Start: 47092, Stop: 47304, Start Num: 5

Candidate Starts for Boog\_74:

(1, 47050), (3, 47071), (Start: 5 @47092 has 14 MA's), (9, 47119), (17, 47239), (22, 47290),

Gene: BronxBay\_75 Start: 47373, Stop: 47588, Start Num: 5

Candidate Starts for BronxBay\_75:

(1, 47331), (3, 47352), (Start: 5 @47373 has 14 MA's), (Start: 10 @47403 has 1 MA's), (14, 47499), (18, 47535), (22, 47574),

Gene: Djungelskog\_74 Start: 47375, Stop: 47590, Start Num: 5

Candidate Starts for Djungelskog\_74:

(1, 47333), (3, 47354), (Start: 5 @47375 has 14 MA's), (Start: 10 @47405 has 1 MA's), (14, 47501), (18, 47537), (22, 47576),

Gene: DoctorPepper\_74 Start: 47068, Stop: 47283, Start Num: 5

Candidate Starts for DoctorPepper\_74:

(1, 47026), (3, 47047), (Start: 5 @47068 has 14 MA's), (Start: 10 @47098 has 1 MA's), (14, 47194), (18, 47230), (22, 47269),

Gene: Egad\_75 Start: 47342, Stop: 47557, Start Num: 5

Candidate Starts for Egad\_75:

(1, 47300), (3, 47321), (Start: 5 @47342 has 14 MA's), (Start: 10 @47372 has 1 MA's), (14, 47468), (18, 47504), (22, 47543),

Gene: Gandionco\_247 Start: 109197, Stop: 109415, Start Num: 2

Candidate Starts for Gandionco\_247:

(2, 109197), (Start: 4 @109206 has 3 MA's), (7, 109230),

Gene: HerbBucket\_74 Start: 47074, Stop: 47289, Start Num: 5

Candidate Starts for HerbBucket\_74:

(1, 47032), (3, 47053), (Start: 5 @47074 has 14 MA's), (14, 47200), (18, 47236), (22, 47275),

Gene: JeNeSaisPas\_239 Start: 109195, Stop: 109395, Start Num: 6

Candidate Starts for JeNeSaisPas\_239:

(6, 109195), (19, 109363), (20, 109366),

Gene: Jeremy4pt0\_74 Start: 47060, Stop: 47275, Start Num: 5

Candidate Starts for Jeremy4pt0\_74:

(1, 47018), (3, 47039), (Start: 5 @47060 has 14 MA's), (Start: 10 @47090 has 1 MA's), (14, 47186), (18, 47222), (22, 47261),

Gene: KevinMinion\_86 Start: 51657, Stop: 51881, Start Num: 4

Candidate Starts for KevinMinion\_86:

(Start: 4 @51657 has 3 MA's), (15, 51795), (16, 51801), (20, 51846), (21, 51849),

Gene: Kureo\_243 Start: 107418, Stop: 107618, Start Num: 6

Candidate Starts for Kureo\_243:

(6, 107418), (19, 107586), (20, 107589),

Gene: Linda\_75 Start: 47358, Stop: 47570, Start Num: 5

Candidate Starts for Linda\_75:

(1, 47316), (3, 47337), (Start: 5 @47358 has 14 MA's), (9, 47385), (17, 47505), (22, 47556),

Gene: Marianna39\_247 Start: 109809, Stop: 110018, Start Num: 4

Candidate Starts for Marianna39\_247:

(2, 109800), (Start: 4 @109809 has 3 MA's), (7, 109833),

Gene: Michelle\_75 Start: 47402, Stop: 47587, Start Num: 10

Candidate Starts for Michelle\_75:

(1, 47330), (3, 47351), (Start: 5 @47372 has 14 MA's), (Start: 10 @47402 has 1 MA's), (14, 47498), (18, 47534), (22, 47573),

Gene: MrAaronian\_75 Start: 47372, Stop: 47587, Start Num: 5

Candidate Starts for MrAaronian\_75:

(1, 47330), (3, 47351), (Start: 5 @47372 has 14 MA's), (Start: 10 @47402 has 1 MA's), (14, 47498), (18, 47534), (22, 47573),

Gene: Onestar\_74 Start: 47546, Stop: 47755, Start Num: 5

Candidate Starts for Onestar\_74:

(Start: 5 @47546 has 14 MA's), (11, 47621), (12, 47639), (22, 47741),

Gene: ProfFrink\_75 Start: 47341, Stop: 47556, Start Num: 5

Candidate Starts for ProfFrink\_75:

(1, 47299), (3, 47320), (Start: 5 @47341 has 14 MA's), (Start: 10 @47371 has 1 MA's), (14, 47467), (18, 47503), (22, 47542),

Gene: Raunak\_76 Start: 47051, Stop: 47266, Start Num: 5

Candidate Starts for Raunak\_76:

(1, 47009), (3, 47030), (Start: 5 @47051 has 14 MA's), (Start: 10 @47081 has 1 MA's), (14, 47177), (18, 47213), (22, 47252),

Gene: Salk\_75 Start: 47358, Stop: 47570, Start Num: 5

Candidate Starts for Salk\_75:

(1, 47316), (3, 47337), (Start: 5 @47358 has 14 MA's), (9, 47385), (17, 47505), (22, 47556),

Gene: Shiba\_74 Start: 47067, Stop: 47282, Start Num: 5

Candidate Starts for Shiba\_74:

(1, 47025), (3, 47046), (Start: 5 @47067 has 14 MA's), (Start: 10 @47097 has 1 MA's), (14, 47193), (18, 47229), (22, 47268),

Gene: Sloopyjoe\_75 Start: 47374, Stop: 47589, Start Num: 5

Candidate Starts for Sloopyjoe\_75:

(1, 47332), (3, 47353), (Start: 5 @47374 has 14 MA's), (9, 47401), (Start: 10 @47404 has 1 MA's), (14, 47500), (18, 47536), (22, 47575),

Gene: Spain\_75 Start: 47372, Stop: 47587, Start Num: 5

Candidate Starts for Spain\_75:

(1, 47330), (3, 47351), (Start: 5 @47372 has 14 MA's), (Start: 10 @47402 has 1 MA's), (14, 47498), (18, 47534), (22, 47573),

Gene: Sporto\_74 Start: 48408, Stop: 48605, Start Num: 8

Candidate Starts for Sporto\_74:

(Start: 5 @48396 has 14 MA's), (Start: 8 @48408 has 1 MA's), (13, 48504), (18, 48555),

Gene: StarLord\_75 Start: 47367, Stop: 47582, Start Num: 5

Candidate Starts for StarLord\_75:

(1, 47325), (3, 47346), (Start: 5 @47367 has 14 MA's), (Start: 10 @47397 has 1 MA's), (14, 47493), (18, 47529), (22, 47568),

Gene: Stayer\_75 Start: 47370, Stop: 47585, Start Num: 5

Candidate Starts for Stayer\_75:

(1, 47328), (3, 47349), (Start: 5 @47370 has 14 MA's), (Start: 10 @47400 has 1 MA's), (14, 47496), (18, 47532), (22, 47571),

Gene: Uzumaki\_88 Start: 50799, Stop: 51023, Start Num: 4

Candidate Starts for Uzumaki\_88:

(Start: 4 @50799 has 3 MA's), (15, 50937), (16, 50943), (20, 50988), (21, 50991),