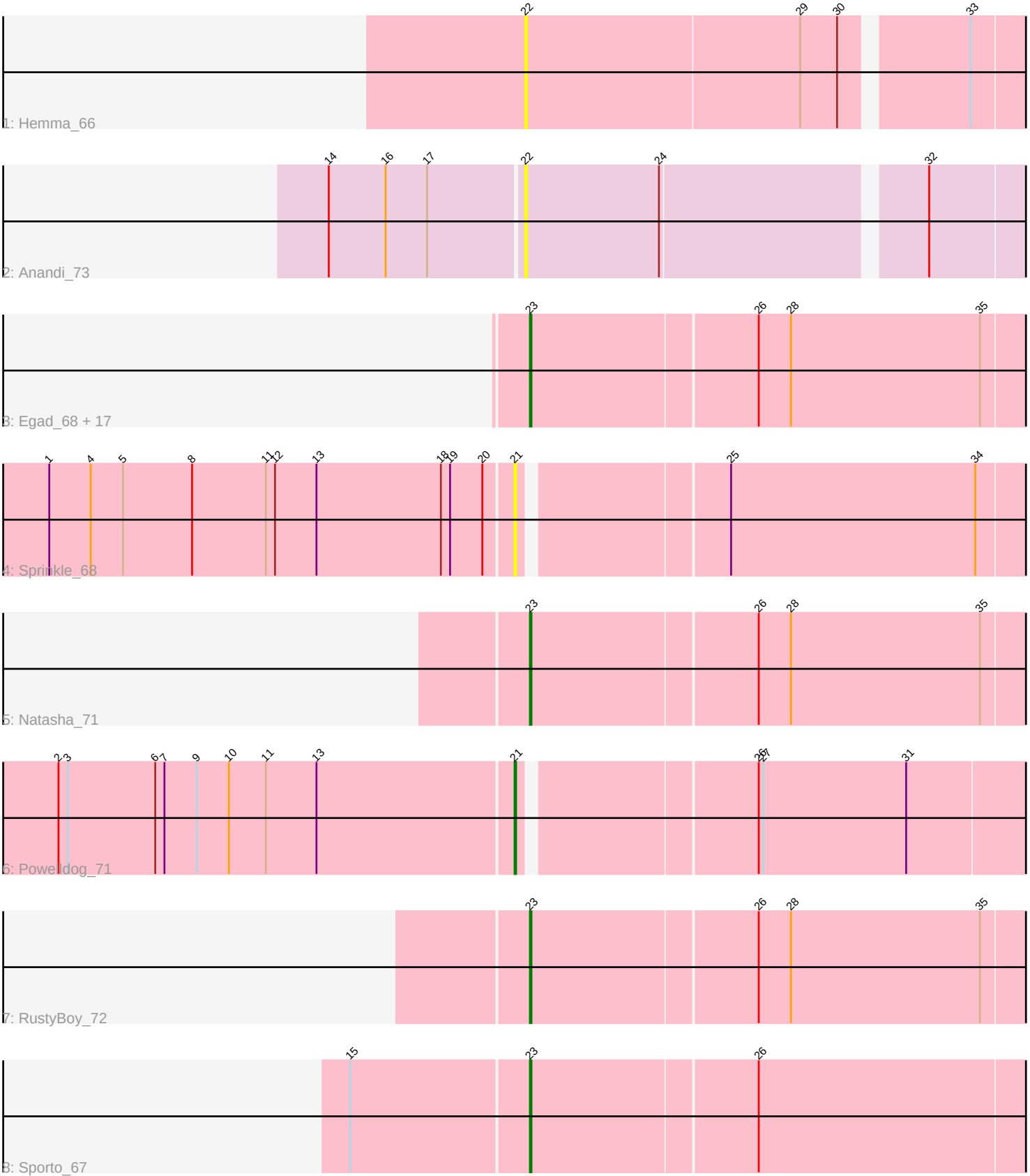


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 280814 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280814 has 25 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Hemma\_66
- Track 2 : Anandi\_73
- Track 3 : Egad\_68, Salk\_68, Spain\_68, Raunak\_69, Linda\_68, Stayer\_68, Sloopyjoe\_68, StarLord\_68, BronxBay\_68, Boog\_67, ProfFrink\_68, Shiba\_67, Jeremy4pt0\_65, Michelle\_68, MrAaronian\_68, HerbBucket\_66, DoctorPepper\_67, Djungelskog\_67
- Track 4 : Sprinkle\_68
- Track 5 : Natasha\_71
- Track 6 : Powellldog\_71
- Track 7 : RustyBoy\_72
- Track 8 : Sporto\_67

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

The start number called the most often in the published annotations is 23, it was called in 17 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Boog\_67, BronxBay\_68, Djungelskog\_67, DoctorPepper\_67, Egad\_68, HerbBucket\_66, Jeremy4pt0\_65, Linda\_68, Michelle\_68, MrAaronian\_68, Natasha\_71, ProfFrink\_68, Raunak\_69, RustyBoy\_72, Salk\_68, Shiba\_67, Sloopyjoe\_68, Spain\_68, Sporto\_67, StarLord\_68, Stayer\_68,

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

- 

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

- Anandi\_73, Hemma\_66, Powellldog\_71, Sprinkle\_68,

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

Start 21:

- Found in 2 of 25 ( 8.0% ) of genes in pham
- Manual Annotations of this start: 1 of 18

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Powelldog\_71 (AW), Sprinkle\_68 (AW),

Start 22:

- Found in 2 of 25 ( 8.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anandi\_73 (AU4), Hemma\_66 (AU1),

Start 23:

- Found in 21 of 25 ( 84.0% ) of genes in pham
- Manual Annotations of this start: 17 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Boog\_67 (AW), BronxBay\_68 (AW), Djungelskog\_67 (AW), DoctorPepper\_67 (AW), Egad\_68 (AW), HerbBucket\_66 (AW), Jeremy4pt0\_65 (AW), Linda\_68 (AW), Michelle\_68 (AW), MrAaronian\_68 (AW), Natasha\_71 (AW), ProfFrink\_68 (AW), Raunak\_69 (AW), RustyBoy\_72 (AW), Salk\_68 (AW), Shiba\_67 (AW), Sloopyjoe\_68 (AW), Spain\_68 (AW), Sporto\_67 (AW), StarLord\_68 (AW), Stayer\_68 (AW),

### Summary by clusters:

There are 3 clusters represented in this pham: AU1, AU4, AW,

Info for manual annotations of cluster AW:

- Start number 21 was manually annotated 1 time for cluster AW.
- Start number 23 was manually annotated 17 times for cluster AW.

### Gene Information:

Gene: Anandi\_73 Start: 46553, Stop: 46873, Start Num: 22

Candidate Starts for Anandi\_73:

(14, 46430), (16, 46466), (17, 46493), (22, 46553), (24, 46640), (32, 46799),

Gene: Boog\_67 Start: 43689, Stop: 44018, Start Num: 23

Candidate Starts for Boog\_67:

(Start: 23 @43689 has 17 MA's), (26, 43833), (28, 43854), (35, 43977),

Gene: BronxBay\_68 Start: 43961, Stop: 44290, Start Num: 23

Candidate Starts for BronxBay\_68:

(Start: 23 @43961 has 17 MA's), (26, 44105), (28, 44126), (35, 44249),

Gene: Djungelskog\_67 Start: 43963, Stop: 44292, Start Num: 23

Candidate Starts for Djungelskog\_67:

(Start: 23 @43963 has 17 MA's), (26, 44107), (28, 44128), (35, 44251),

Gene: DoctorPepper\_67 Start: 43665, Stop: 43994, Start Num: 23

Candidate Starts for DoctorPepper\_67:

(Start: 23 @43665 has 17 MA's), (26, 43809), (28, 43830), (35, 43953),

Gene: Egad\_68 Start: 43939, Stop: 44268, Start Num: 23  
Candidate Starts for Egad\_68:  
(Start: 23 @43939 has 17 MA's), (26, 44083), (28, 44104), (35, 44227),

Gene: Hemma\_66 Start: 43757, Stop: 44077, Start Num: 22  
Candidate Starts for Hemma\_66:  
(22, 43757), (29, 43934), (30, 43958), (33, 44030),

Gene: HerbBucket\_66 Start: 43671, Stop: 44000, Start Num: 23  
Candidate Starts for HerbBucket\_66:  
(Start: 23 @43671 has 17 MA's), (26, 43815), (28, 43836), (35, 43959),

Gene: Jeremy4pt0\_65 Start: 43660, Stop: 43989, Start Num: 23  
Candidate Starts for Jeremy4pt0\_65:  
(Start: 23 @43660 has 17 MA's), (26, 43804), (28, 43825), (35, 43948),

Gene: Linda\_68 Start: 43958, Stop: 44287, Start Num: 23  
Candidate Starts for Linda\_68:  
(Start: 23 @43958 has 17 MA's), (26, 44102), (28, 44123), (35, 44246),

Gene: Michelle\_68 Start: 43960, Stop: 44289, Start Num: 23  
Candidate Starts for Michelle\_68:  
(Start: 23 @43960 has 17 MA's), (26, 44104), (28, 44125), (35, 44248),

Gene: MrAaronian\_68 Start: 43960, Stop: 44289, Start Num: 23  
Candidate Starts for MrAaronian\_68:  
(Start: 23 @43960 has 17 MA's), (26, 44104), (28, 44125), (35, 44248),

Gene: Natasha\_71 Start: 44273, Stop: 44602, Start Num: 23  
Candidate Starts for Natasha\_71:  
(Start: 23 @44273 has 17 MA's), (26, 44417), (28, 44438), (35, 44561),

Gene: Powelldog\_71 Start: 44664, Stop: 44993, Start Num: 21  
Candidate Starts for Powelldog\_71:  
(2, 44370), (3, 44376), (6, 44433), (7, 44439), (9, 44460), (10, 44481), (11, 44505), (13, 44538), (Start: 21 @44664 has 1 MA's), (26, 44808), (27, 44811), (31, 44904),

Gene: ProfFrink\_68 Start: 43938, Stop: 44267, Start Num: 23  
Candidate Starts for ProfFrink\_68:  
(Start: 23 @43938 has 17 MA's), (26, 44082), (28, 44103), (35, 44226),

Gene: Raunak\_69 Start: 43600, Stop: 43929, Start Num: 23  
Candidate Starts for Raunak\_69:  
(Start: 23 @43600 has 17 MA's), (26, 43744), (28, 43765), (35, 43888),

Gene: RustyBoy\_72 Start: 44472, Stop: 44801, Start Num: 23  
Candidate Starts for RustyBoy\_72:  
(Start: 23 @44472 has 17 MA's), (26, 44616), (28, 44637), (35, 44760),

Gene: Salk\_68 Start: 43958, Stop: 44287, Start Num: 23  
Candidate Starts for Salk\_68:  
(Start: 23 @43958 has 17 MA's), (26, 44102), (28, 44123), (35, 44246),

Gene: Shiba\_67 Start: 43616, Stop: 43945, Start Num: 23  
Candidate Starts for Shiba\_67:  
(Start: 23 @43616 has 17 MA's), (26, 43760), (28, 43781), (35, 43904),

Gene: Sloopyjoe\_68 Start: 43962, Stop: 44291, Start Num: 23  
Candidate Starts for Sloopyjoe\_68:  
(Start: 23 @43962 has 17 MA's), (26, 44106), (28, 44127), (35, 44250),

Gene: Spain\_68 Start: 43960, Stop: 44289, Start Num: 23  
Candidate Starts for Spain\_68:  
(Start: 23 @43960 has 17 MA's), (26, 44104), (28, 44125), (35, 44248),

Gene: Sporto\_67 Start: 45047, Stop: 45376, Start Num: 23  
Candidate Starts for Sporto\_67:  
(15, 44933), (Start: 23 @45047 has 17 MA's), (26, 45191),

Gene: Sprinkle\_68 Start: 44401, Stop: 44730, Start Num: 21  
Candidate Starts for Sprinkle\_68:  
(1, 44101), (4, 44128), (5, 44149), (8, 44194), (11, 44242), (12, 44248), (13, 44275), (18, 44356), (19, 44362), (20, 44383), (Start: 21 @44401 has 1 MA's), (25, 44527), (34, 44686),

Gene: StarLord\_68 Start: 43955, Stop: 44284, Start Num: 23  
Candidate Starts for StarLord\_68:  
(Start: 23 @43955 has 17 MA's), (26, 44099), (28, 44120), (35, 44243),

Gene: Stayer\_68 Start: 43958, Stop: 44287, Start Num: 23  
Candidate Starts for Stayer\_68:  
(Start: 23 @43958 has 17 MA's), (26, 44102), (28, 44123), (35, 44246),