



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 106973 Report

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

Pham number 106973 has 9 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Marcoliusprime\_74, Milly\_75, DismalFunk\_75, BoostSeason\_74, Mufasa\_74, DismalStressor\_75, Findley\_75
- Track 2 : ZoeJ\_74
- Track 3 : Strobilo\_80

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

The start number called the most often in the published annotations is 4, it was called in 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BoostSeason\_74, DismalFunk\_75, DismalStressor\_75, Findley\_75, Marcoliusprime\_74, Milly\_75, Mufasa\_74,

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

- Strobilo\_80, ZoeJ\_74,

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

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

Start 4:

- Found in 9 of 9 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 7 of 8
- Called 77.8% of time when present
- Phage (with cluster) where this start called: BoostSeason\_74 (K2), DismalFunk\_75 (K2), DismalStressor\_75 (K2), Findley\_75 (K2), Marcoliusprime\_74 (K2), Milly\_75 (K2), Mufasa\_74 (K2),

Start 5:

- Found in 9 of 9 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 22.2% of time when present

- Phage (with cluster) where this start called: Strobilo\_80 (K2), ZoeJ\_74 (K2),

### **Summary by clusters:**

There is one cluster represented in this pham: K2

Info for manual annotations of cluster K2:

- Start number 4 was manually annotated 7 times for cluster K2.
- Start number 5 was manually annotated 1 time for cluster K2.

### **Gene Information:**

Gene: BoostSeason\_74 Start: 49954, Stop: 50268, Start Num: 4

Candidate Starts for BoostSeason\_74:

(1, 49576), (2, 49786), (Start: 4 @49954 has 7 MA's), (Start: 5 @49957 has 1 MA's), (6, 50023), (7, 50032), (8, 50074), (9, 50089), (10, 50116), (11, 50143), (12, 50230), (13, 50239),

Gene: DismalFunk\_75 Start: 50483, Stop: 50797, Start Num: 4

Candidate Starts for DismalFunk\_75:

(1, 50105), (2, 50315), (Start: 4 @50483 has 7 MA's), (Start: 5 @50486 has 1 MA's), (6, 50552), (7, 50561), (8, 50603), (9, 50618), (10, 50645), (11, 50672), (12, 50759), (13, 50768),

Gene: DismalStressor\_75 Start: 50483, Stop: 50797, Start Num: 4

Candidate Starts for DismalStressor\_75:

(1, 50105), (2, 50315), (Start: 4 @50483 has 7 MA's), (Start: 5 @50486 has 1 MA's), (6, 50552), (7, 50561), (8, 50603), (9, 50618), (10, 50645), (11, 50672), (12, 50759), (13, 50768),

Gene: Findley\_75 Start: 50501, Stop: 50815, Start Num: 4

Candidate Starts for Findley\_75:

(1, 50123), (2, 50333), (Start: 4 @50501 has 7 MA's), (Start: 5 @50504 has 1 MA's), (6, 50570), (7, 50579), (8, 50621), (9, 50636), (10, 50663), (11, 50690), (12, 50777), (13, 50786),

Gene: Marcoliusprime\_74 Start: 50483, Stop: 50797, Start Num: 4

Candidate Starts for Marcoliusprime\_74:

(1, 50105), (2, 50315), (Start: 4 @50483 has 7 MA's), (Start: 5 @50486 has 1 MA's), (6, 50552), (7, 50561), (8, 50603), (9, 50618), (10, 50645), (11, 50672), (12, 50759), (13, 50768),

Gene: Milly\_75 Start: 50474, Stop: 50788, Start Num: 4

Candidate Starts for Milly\_75:

(1, 50096), (2, 50306), (Start: 4 @50474 has 7 MA's), (Start: 5 @50477 has 1 MA's), (6, 50543), (7, 50552), (8, 50594), (9, 50609), (10, 50636), (11, 50663), (12, 50750), (13, 50759),

Gene: Mufasa\_74 Start: 49941, Stop: 50255, Start Num: 4

Candidate Starts for Mufasa\_74:

(1, 49563), (2, 49773), (Start: 4 @49941 has 7 MA's), (Start: 5 @49944 has 1 MA's), (6, 50010), (7, 50019), (8, 50061), (9, 50076), (10, 50103), (11, 50130), (12, 50217), (13, 50226),

Gene: Strobilo\_80 Start: 50483, Stop: 50794, Start Num: 5

Candidate Starts for Strobilo\_80:

(1, 50102), (2, 50312), (Start: 4 @50480 has 7 MA's), (Start: 5 @50483 has 1 MA's), (6, 50549), (7, 50558), (8, 50600), (9, 50615), (10, 50642), (11, 50669), (12, 50756), (13, 50765),

Gene: ZoeJ\_74 Start: 49918, Stop: 50229, Start Num: 5

Candidate Starts for ZoeJ\_74:

(2, 49747), (3, 49780), (Start: 4 @49915 has 7 MA's), (Start: 5 @49918 has 1 MA's), (6, 49984), (7, 49993), (8, 50035), (9, 50050), (10, 50077), (11, 50104), (12, 50191), (13, 50200),