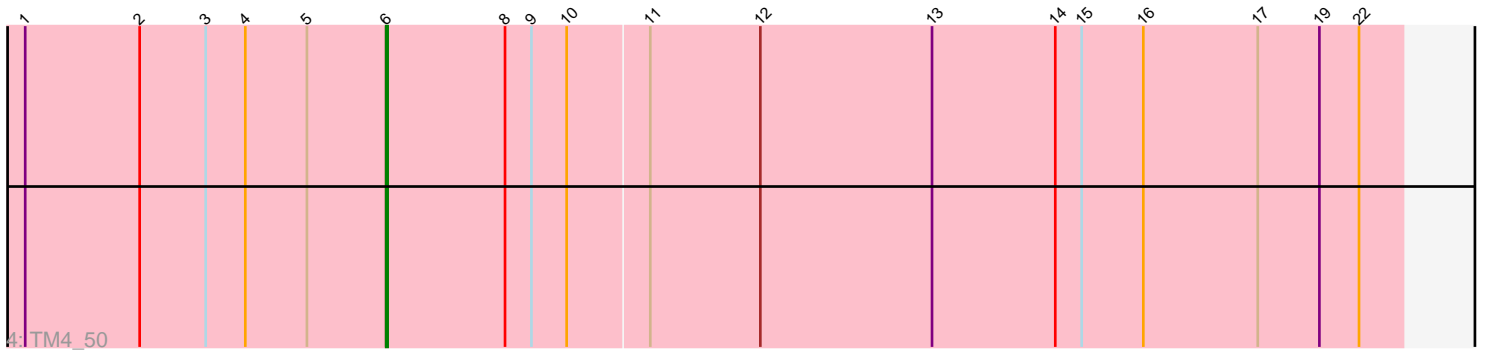
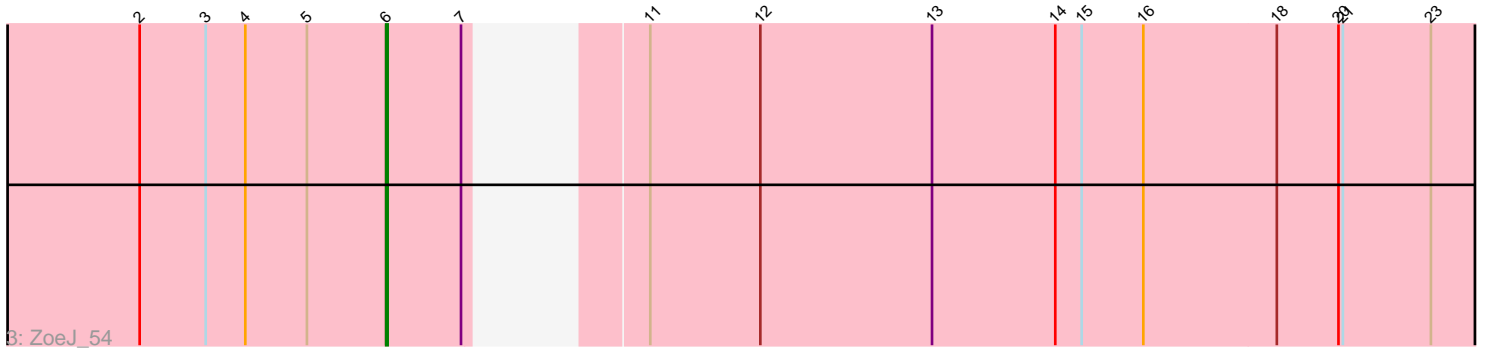
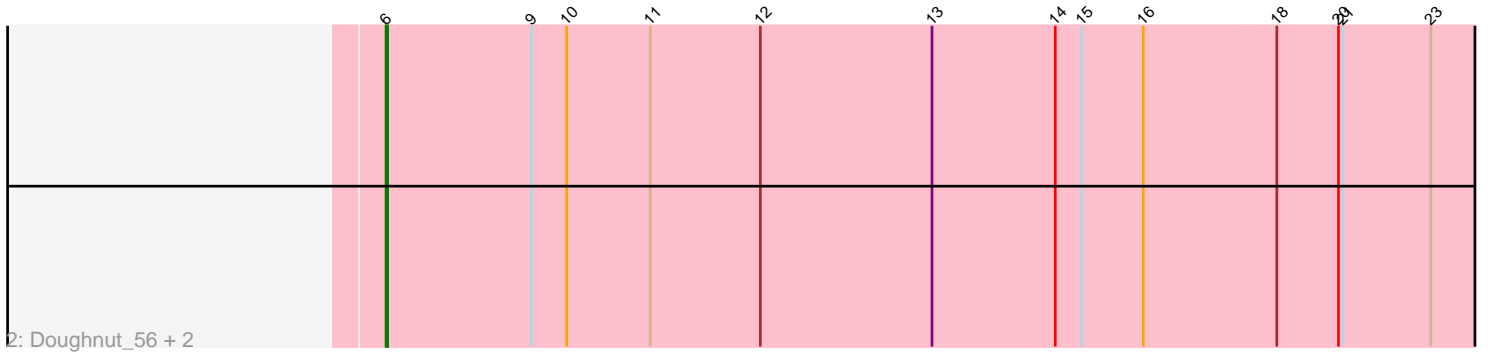
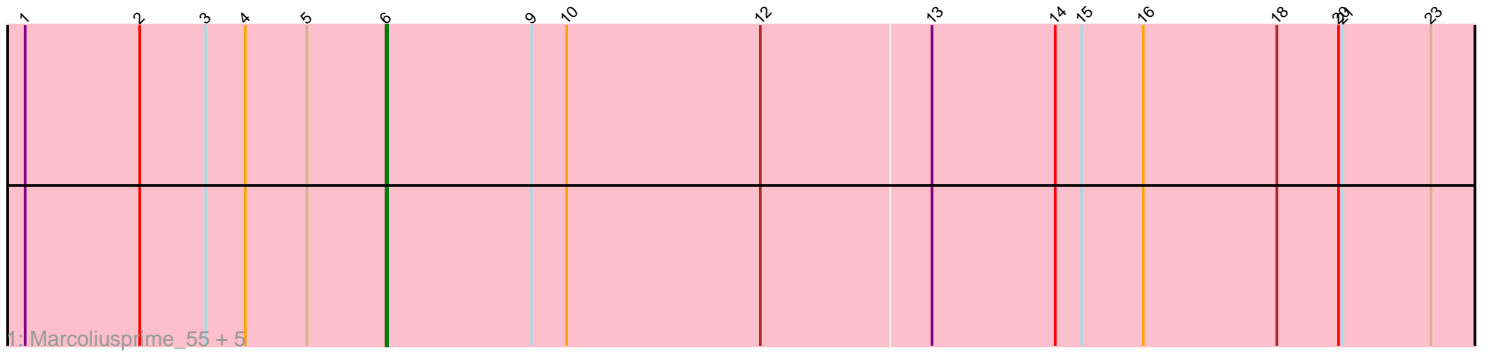


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 225081 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225081 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Marcoliusprime\_55, Strobilo\_55, DismalFunk\_55, Milly\_55, DismalStressor\_55, Findley\_55
- Track 2 : Doughnut\_56, Mufasa\_55, BoostSeason\_55
- Track 3 : ZoeJ\_54
- Track 4 : TM4\_50

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

The start number called the most often in the published annotations is 6, it was called in 10 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BoostSeason\_55, DismalFunk\_55, DismalStressor\_55, Doughnut\_56, Findley\_55, Marcoliusprime\_55, Milly\_55, Mufasa\_55, Strobilo\_55, TM4\_50, ZoeJ\_54,

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

- 

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

- 

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

Start 6:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 10 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BoostSeason\_55 (K2), DismalFunk\_55 (K2), DismalStressor\_55 (K2), Doughnut\_56 (K2), Findley\_55 (K2), Marcoliusprime\_55 (K2), Milly\_55 (K2), Mufasa\_55 (K2), Strobilo\_55 (K2), TM4\_50 (K2), ZoeJ\_54 (K2),

### **Summary by clusters:**

There is one cluster represented in this pham: K2

Info for manual annotations of cluster K2:

•Start number 6 was manually annotated 10 times for cluster K2.

**Gene Information:**

Gene: BoostSeason\_55 Start: 39361, Stop: 40122, Start Num: 6

Candidate Starts for BoostSeason\_55:

(Start: 6 @39361 has 10 MA's), (9, 39460), (10, 39484), (11, 39541), (12, 39616), (13, 39733), (14, 39817), (15, 39835), (16, 39877), (18, 39967), (20, 40009), (21, 40012), (23, 40072),

Gene: DismalFunk\_55 Start: 39789, Stop: 40547, Start Num: 6

Candidate Starts for DismalFunk\_55:

(1, 39543), (2, 39621), (3, 39666), (4, 39693), (5, 39735), (Start: 6 @39789 has 10 MA's), (9, 39888), (10, 39912), (12, 40044), (13, 40158), (14, 40242), (15, 40260), (16, 40302), (18, 40392), (20, 40434), (21, 40437), (23, 40497),

Gene: DismalStressor\_55 Start: 39789, Stop: 40547, Start Num: 6

Candidate Starts for DismalStressor\_55:

(1, 39543), (2, 39621), (3, 39666), (4, 39693), (5, 39735), (Start: 6 @39789 has 10 MA's), (9, 39888), (10, 39912), (12, 40044), (13, 40158), (14, 40242), (15, 40260), (16, 40302), (18, 40392), (20, 40434), (21, 40437), (23, 40497),

Gene: Doughnut\_56 Start: 39402, Stop: 40163, Start Num: 6

Candidate Starts for Doughnut\_56:

(Start: 6 @39402 has 10 MA's), (9, 39501), (10, 39525), (11, 39582), (12, 39657), (13, 39774), (14, 39858), (15, 39876), (16, 39918), (18, 40008), (20, 40050), (21, 40053), (23, 40113),

Gene: Findley\_55 Start: 39782, Stop: 40540, Start Num: 6

Candidate Starts for Findley\_55:

(1, 39536), (2, 39614), (3, 39659), (4, 39686), (5, 39728), (Start: 6 @39782 has 10 MA's), (9, 39881), (10, 39905), (12, 40037), (13, 40151), (14, 40235), (15, 40253), (16, 40295), (18, 40385), (20, 40427), (21, 40430), (23, 40490),

Gene: Marcoliusprime\_55 Start: 39789, Stop: 40547, Start Num: 6

Candidate Starts for Marcoliusprime\_55:

(1, 39543), (2, 39621), (3, 39666), (4, 39693), (5, 39735), (Start: 6 @39789 has 10 MA's), (9, 39888), (10, 39912), (12, 40044), (13, 40158), (14, 40242), (15, 40260), (16, 40302), (18, 40392), (20, 40434), (21, 40437), (23, 40497),

Gene: Milly\_55 Start: 39762, Stop: 40520, Start Num: 6

Candidate Starts for Milly\_55:

(1, 39516), (2, 39594), (3, 39639), (4, 39666), (5, 39708), (Start: 6 @39762 has 10 MA's), (9, 39861), (10, 39885), (12, 40017), (13, 40131), (14, 40215), (15, 40233), (16, 40275), (18, 40365), (20, 40407), (21, 40410), (23, 40470),

Gene: Mufasa\_55 Start: 39346, Stop: 40107, Start Num: 6

Candidate Starts for Mufasa\_55:

(Start: 6 @39346 has 10 MA's), (9, 39445), (10, 39469), (11, 39526), (12, 39601), (13, 39718), (14, 39802), (15, 39820), (16, 39862), (18, 39952), (20, 39994), (21, 39997), (23, 40057),

Gene: Strobilo\_55 Start: 39764, Stop: 40522, Start Num: 6

Candidate Starts for Strobilo\_55:

(1, 39518), (2, 39596), (3, 39641), (4, 39668), (5, 39710), (Start: 6 @39764 has 10 MA's), (9, 39863), (10, 39887), (12, 40019), (13, 40133), (14, 40217), (15, 40235), (16, 40277), (18, 40367), (20, 40409), (21, 40412), (23, 40472),

Gene: TM4\_50 Start: 34144, Stop: 34833, Start Num: 6

Candidate Starts for TM4\_50:

(1, 33898), (2, 33976), (3, 34021), (4, 34048), (5, 34090), (Start: 6 @34144 has 10 MA's), (8, 34225), (9, 34243), (10, 34267), (11, 34321), (12, 34396), (13, 34513), (14, 34597), (15, 34615), (16, 34657), (17, 34735), (19, 34777), (22, 34804),

Gene: ZoeJ\_54 Start: 39235, Stop: 39918, Start Num: 6

Candidate Starts for ZoeJ\_54:

(2, 39067), (3, 39112), (4, 39139), (5, 39181), (Start: 6 @39235 has 10 MA's), (7, 39286), (11, 39337), (12, 39412), (13, 39529), (14, 39613), (15, 39631), (16, 39673), (18, 39763), (20, 39805), (21, 39808), (23, 39868),