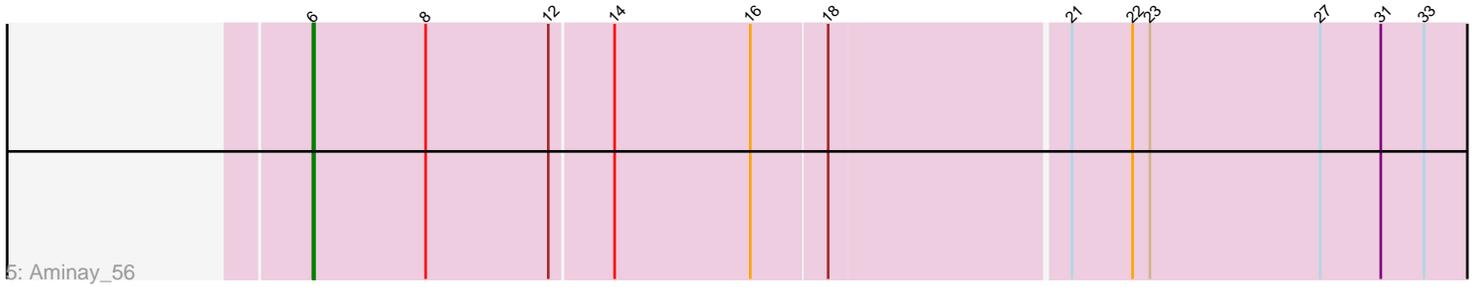
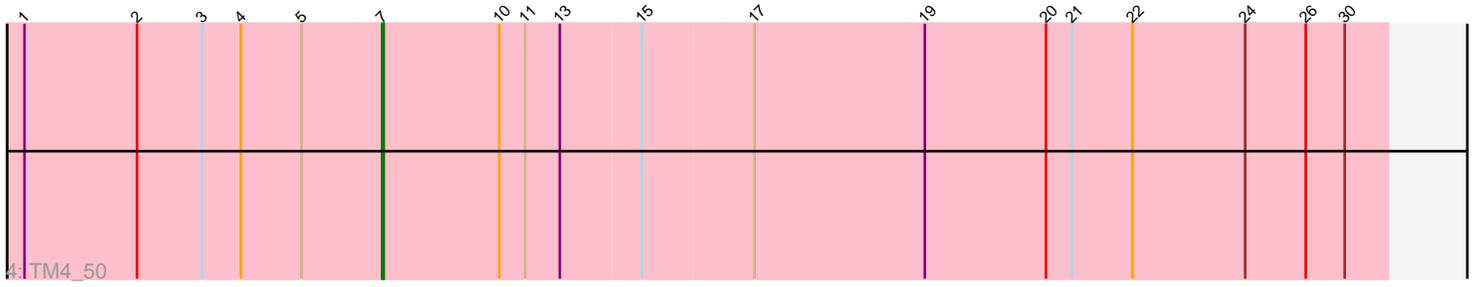
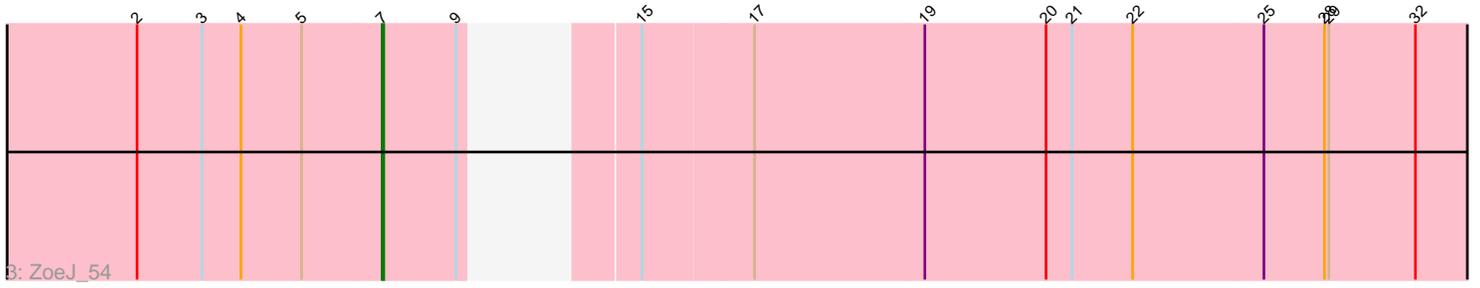
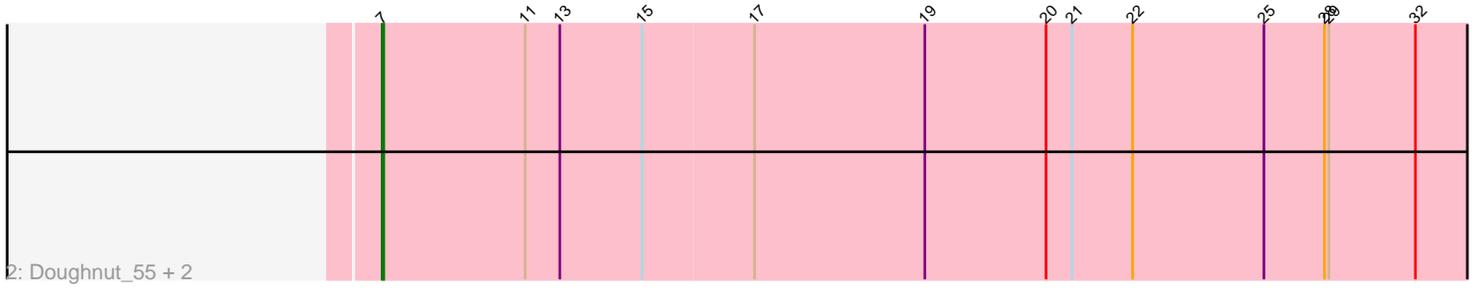
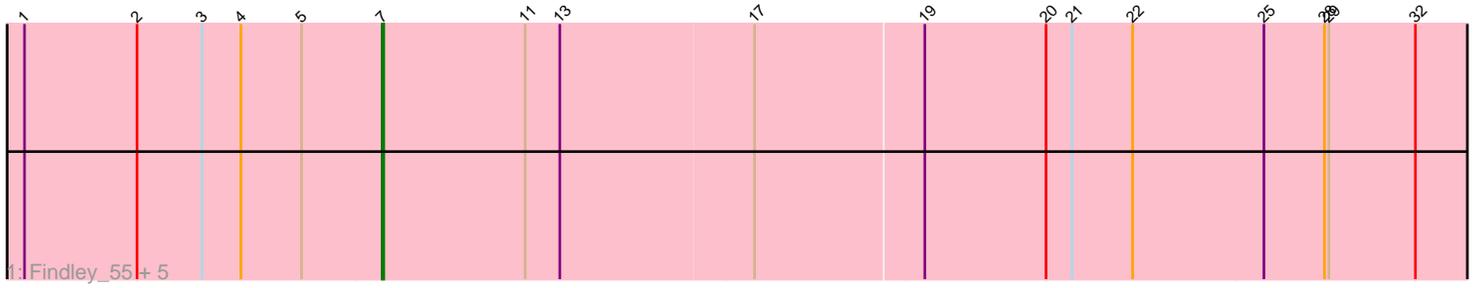


Pham 284358



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 284358 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284358 has 12 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Findley\_55, Strobilo\_55, DismalFunk\_55, Milly\_55, DismalStressor\_55, Marcoliusprime\_55
- Track 2 : Doughnut\_55, Mufasa\_55, BoostSeason\_55
- Track 3 : ZoeJ\_54
- Track 4 : TM4\_50
- Track 5 : Aminay\_56

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

The start number called the most often in the published annotations is 7, it was called in 11 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BoostSeason\_55, DismalFunk\_55, DismalStressor\_55, Doughnut\_55, 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:

- Aminay\_56,

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

Start 6:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aminay\_56 (K7),

Start 7:

- Found in 11 of 12 ( 91.7% ) of genes in pham
- Manual Annotations of this start: 11 of 12
- Called 100.0% of time when present

- Phage (with cluster) where this start called: BoostSeason\_55 (K2), DismalFunk\_55 (K2), DismalStressor\_55 (K2), Doughnut\_55 (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 are 2 clusters represented in this pham: K2, K7,

Info for manual annotations of cluster K2:

- Start number 7 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K7:

- Start number 6 was manually annotated 1 time for cluster K7.

### **Gene Information:**

Gene: Aminay\_56 Start: 39165, Stop: 39959, Start Num: 6

Candidate Starts for Aminay\_56:

(Start: 6 @39165 has 1 MA's), (8, 39243), (12, 39327), (14, 39369), (16, 39462), (18, 39513), (21, 39672), (22, 39714), (23, 39726), (27, 39843), (31, 39885), (33, 39915),

Gene: BoostSeason\_55 Start: 39361, Stop: 40122, Start Num: 7

Candidate Starts for BoostSeason\_55:

(Start: 7 @39361 has 11 MA's), (11, 39460), (13, 39484), (15, 39541), (17, 39616), (19, 39733), (20, 39817), (21, 39835), (22, 39877), (25, 39967), (28, 40009), (29, 40012), (32, 40072),

Gene: DismalFunk\_55 Start: 39789, Stop: 40547, Start Num: 7

Candidate Starts for DismalFunk\_55:

(1, 39543), (2, 39621), (3, 39666), (4, 39693), (5, 39735), (Start: 7 @39789 has 11 MA's), (11, 39888), (13, 39912), (17, 40044), (19, 40158), (20, 40242), (21, 40260), (22, 40302), (25, 40392), (28, 40434), (29, 40437), (32, 40497),

Gene: DismalStressor\_55 Start: 39789, Stop: 40547, Start Num: 7

Candidate Starts for DismalStressor\_55:

(1, 39543), (2, 39621), (3, 39666), (4, 39693), (5, 39735), (Start: 7 @39789 has 11 MA's), (11, 39888), (13, 39912), (17, 40044), (19, 40158), (20, 40242), (21, 40260), (22, 40302), (25, 40392), (28, 40434), (29, 40437), (32, 40497),

Gene: Doughnut\_55 Start: 39402, Stop: 40163, Start Num: 7

Candidate Starts for Doughnut\_55:

(Start: 7 @39402 has 11 MA's), (11, 39501), (13, 39525), (15, 39582), (17, 39657), (19, 39774), (20, 39858), (21, 39876), (22, 39918), (25, 40008), (28, 40050), (29, 40053), (32, 40113),

Gene: Findley\_55 Start: 39782, Stop: 40540, Start Num: 7

Candidate Starts for Findley\_55:

(1, 39536), (2, 39614), (3, 39659), (4, 39686), (5, 39728), (Start: 7 @39782 has 11 MA's), (11, 39881), (13, 39905), (17, 40037), (19, 40151), (20, 40235), (21, 40253), (22, 40295), (25, 40385), (28, 40427), (29, 40430), (32, 40490),

Gene: Marcoliusprime\_55 Start: 39789, Stop: 40547, Start Num: 7

Candidate Starts for Marcoliusprime\_55:

(1, 39543), (2, 39621), (3, 39666), (4, 39693), (5, 39735), (Start: 7 @39789 has 11 MA's), (11, 39888), (13, 39912), (17, 40044), (19, 40158), (20, 40242), (21, 40260), (22, 40302), (25, 40392), (28, 40434), (29, 40437), (32, 40497),

Gene: Milly\_55 Start: 39762, Stop: 40520, Start Num: 7

Candidate Starts for Milly\_55:

(1, 39516), (2, 39594), (3, 39639), (4, 39666), (5, 39708), (Start: 7 @39762 has 11 MA's), (11, 39861), (13, 39885), (17, 40017), (19, 40131), (20, 40215), (21, 40233), (22, 40275), (25, 40365), (28, 40407), (29, 40410), (32, 40470),

Gene: Mufasa\_55 Start: 39346, Stop: 40107, Start Num: 7

Candidate Starts for Mufasa\_55:

(Start: 7 @39346 has 11 MA's), (11, 39445), (13, 39469), (15, 39526), (17, 39601), (19, 39718), (20, 39802), (21, 39820), (22, 39862), (25, 39952), (28, 39994), (29, 39997), (32, 40057),

Gene: Strobilo\_55 Start: 39764, Stop: 40522, Start Num: 7

Candidate Starts for Strobilo\_55:

(1, 39518), (2, 39596), (3, 39641), (4, 39668), (5, 39710), (Start: 7 @39764 has 11 MA's), (11, 39863), (13, 39887), (17, 40019), (19, 40133), (20, 40217), (21, 40235), (22, 40277), (25, 40367), (28, 40409), (29, 40412), (32, 40472),

Gene: TM4\_50 Start: 34144, Stop: 34833, Start Num: 7

Candidate Starts for TM4\_50:

(1, 33898), (2, 33976), (3, 34021), (4, 34048), (5, 34090), (Start: 7 @34144 has 11 MA's), (10, 34225), (11, 34243), (13, 34267), (15, 34321), (17, 34396), (19, 34513), (20, 34597), (21, 34615), (22, 34657), (24, 34735), (26, 34777), (30, 34804),

Gene: ZoeJ\_54 Start: 39235, Stop: 39918, Start Num: 7

Candidate Starts for ZoeJ\_54:

(2, 39067), (3, 39112), (4, 39139), (5, 39181), (Start: 7 @39235 has 11 MA's), (9, 39286), (15, 39337), (17, 39412), (19, 39529), (20, 39613), (21, 39631), (22, 39673), (25, 39763), (28, 39805), (29, 39808), (32, 39868),