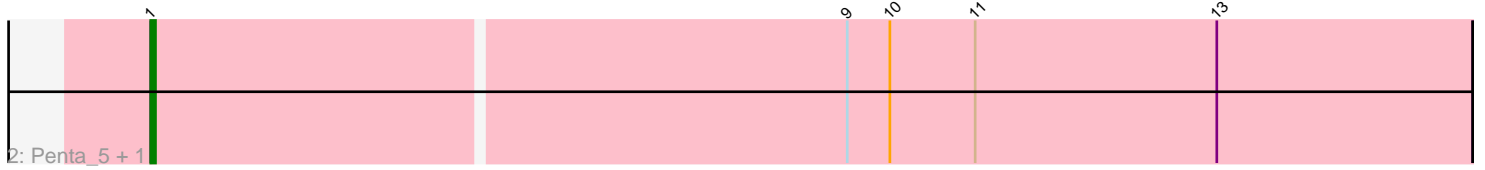
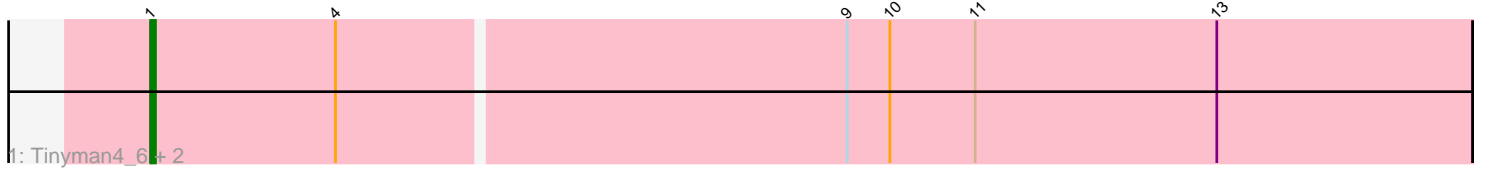


Pham 296999



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 296999 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296999 has 19 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Tinyman4\_6, Kavo\_5, Scissor2024\_6
- Track 2 : Penta\_5, Schimmels22\_5
- Track 3 : WestPM\_5
- Track 4 : HerculesXL\_6
- Track 5 : Sorvannah\_53, Salvatore2000\_53, Wesak\_52
- Track 6 : TinyTimothy\_51
- Track 7 : Oatly\_55, CrunchyBoi\_56, HitchHiker\_56, PineapplePluto\_56, TicTac\_55
- Track 8 : YellowPanda\_54
- Track 9 : JessellCookie\_53, MiamiPanther\_53

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

The start number called the most often in the published annotations is 2, it was called in 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CrunchyBoi\_56, HitchHiker\_56, JessellCookie\_53, MiamiPanther\_53, Oatly\_55, PineapplePluto\_56, Salvatore2000\_53, Sorvannah\_53, TicTac\_55, Wesak\_52,

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

- TinyTimothy\_51, YellowPanda\_54,

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

- HerculesXL\_6, Kavo\_5, Penta\_5, Schimmels22\_5, Scissor2024\_6, Tinyman4\_6, WestPM\_5,

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

Start 1:

- Found in 7 of 19 ( 36.8% ) of genes in pham
- Manual Annotations of this start: 4 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HerculesXL\_6 (EA11), Kavo\_5 (EA11), Penta\_5 (EA11), Schimmels22\_5 (EA11), Scissor2024\_6 (EA11), Tinyman4\_6

(EA11), WestPM\_5 (EA11),

**Start 2:**

- Found in 12 of 19 ( 63.2% ) of genes in pham
- Manual Annotations of this start: 7 of 13
- Called 83.3% of time when present
- Phage (with cluster) where this start called: CrunchyBoi\_56 (EK1), HitchHiker\_56 (EK1), JessellCookie\_53 (EK1), MiamiPanther\_53 (EK1), Oatly\_55 (EK1), PineapplePluto\_56 (EK1), Salvatore2000\_53 (EK1), Sorvannah\_53 (EK1), TicTac\_55 (EK1), Wesak\_52 (EK1),

**Start 3:**

- Found in 7 of 19 ( 36.8% ) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 28.6% of time when present
- Phage (with cluster) where this start called: TinyTimothy\_51 (EK1), YellowPanda\_54 (EK1),

**Summary by clusters:**

There are 2 clusters represented in this pham: EA11, EK1,

Info for manual annotations of cluster EA11:

- Start number 1 was manually annotated 4 times for cluster EA11.

Info for manual annotations of cluster EK1:

- Start number 2 was manually annotated 7 times for cluster EK1.
- Start number 3 was manually annotated 2 times for cluster EK1.

**Gene Information:**

Gene: CrunchyBoi\_56 Start: 52939, Stop: 53211, Start Num: 2

Candidate Starts for CrunchyBoi\_56:

(Start: 2 @52939 has 7 MA's), (6, 53023), (7, 53038), (14, 53185), (15, 53197),

Gene: HerculesXL\_6 Start: 3738, Stop: 4013, Start Num: 1

Candidate Starts for HerculesXL\_6:

(Start: 1 @3738 has 4 MA's), (4, 3777), (6, 3822), (9, 3882), (10, 3891), (11, 3909), (13, 3960),

Gene: HitchHiker\_56 Start: 53084, Stop: 53356, Start Num: 2

Candidate Starts for HitchHiker\_56:

(Start: 2 @53084 has 7 MA's), (6, 53168), (7, 53183), (14, 53330), (15, 53342),

Gene: JessellCookie\_53 Start: 53076, Stop: 53345, Start Num: 2

Candidate Starts for JessellCookie\_53:

(Start: 2 @53076 has 7 MA's), (Start: 3 @53100 has 2 MA's), (5, 53124), (8, 53211),

Gene: Kavo\_5 Start: 3570, Stop: 3845, Start Num: 1

Candidate Starts for Kavo\_5:

(Start: 1 @3570 has 4 MA's), (4, 3609), (9, 3714), (10, 3723), (11, 3741), (13, 3792),

Gene: MiamiPanther\_53 Start: 53073, Stop: 53342, Start Num: 2  
Candidate Starts for MiamiPanther\_53:  
(Start: 2 @53073 has 7 MA's), (Start: 3 @53097 has 2 MA's), (5, 53121), (8, 53208),

Gene: Oatly\_55 Start: 52644, Stop: 52916, Start Num: 2  
Candidate Starts for Oatly\_55:  
(Start: 2 @52644 has 7 MA's), (6, 52728), (7, 52743), (14, 52890), (15, 52902),

Gene: Penta\_5 Start: 3579, Stop: 3854, Start Num: 1  
Candidate Starts for Penta\_5:  
(Start: 1 @3579 has 4 MA's), (9, 3723), (10, 3732), (11, 3750), (13, 3801),

Gene: PineapplePluto\_56 Start: 53007, Stop: 53279, Start Num: 2  
Candidate Starts for PineapplePluto\_56:  
(Start: 2 @53007 has 7 MA's), (6, 53091), (7, 53106), (14, 53253), (15, 53265),

Gene: Salvatore2000\_53 Start: 53061, Stop: 53330, Start Num: 2  
Candidate Starts for Salvatore2000\_53:  
(Start: 2 @53061 has 7 MA's), (Start: 3 @53085 has 2 MA's), (5, 53109),

Gene: Schimmels22\_5 Start: 3579, Stop: 3854, Start Num: 1  
Candidate Starts for Schimmels22\_5:  
(Start: 1 @3579 has 4 MA's), (9, 3723), (10, 3732), (11, 3750), (13, 3801),

Gene: Scissor2024\_6 Start: 3738, Stop: 4013, Start Num: 1  
Candidate Starts for Scissor2024\_6:  
(Start: 1 @3738 has 4 MA's), (4, 3777), (9, 3882), (10, 3891), (11, 3909), (13, 3960),

Gene: Sorvannah\_53 Start: 53061, Stop: 53330, Start Num: 2  
Candidate Starts for Sorvannah\_53:  
(Start: 2 @53061 has 7 MA's), (Start: 3 @53085 has 2 MA's), (5, 53109),

Gene: TicTac\_55 Start: 53015, Stop: 53287, Start Num: 2  
Candidate Starts for TicTac\_55:  
(Start: 2 @53015 has 7 MA's), (6, 53099), (7, 53114), (14, 53261), (15, 53273),

Gene: TinyTimothy\_51 Start: 53085, Stop: 53330, Start Num: 3  
Candidate Starts for TinyTimothy\_51:  
(Start: 2 @53061 has 7 MA's), (Start: 3 @53085 has 2 MA's), (5, 53109), (12, 53265),

Gene: Tinyman4\_6 Start: 3738, Stop: 4013, Start Num: 1  
Candidate Starts for Tinyman4\_6:  
(Start: 1 @3738 has 4 MA's), (4, 3777), (9, 3882), (10, 3891), (11, 3909), (13, 3960),

Gene: Wesak\_52 Start: 52918, Stop: 53187, Start Num: 2  
Candidate Starts for Wesak\_52:  
(Start: 2 @52918 has 7 MA's), (Start: 3 @52942 has 2 MA's), (5, 52966),

Gene: WestPM\_5 Start: 3579, Stop: 3854, Start Num: 1  
Candidate Starts for WestPM\_5:  
(Start: 1 @3579 has 4 MA's), (10, 3732), (11, 3750), (13, 3801),

Gene: YellowPanda\_54 Start: 52811, Stop: 53056, Start Num: 3

Candidate Starts for YellowPanda\_54:  
(Start: 2 @52787 has 7 MA's), (Start: 3 @52811 has 2 MA's), (5, 52835),