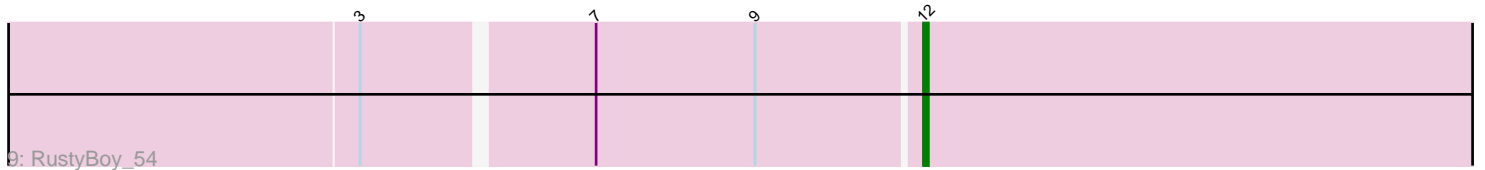
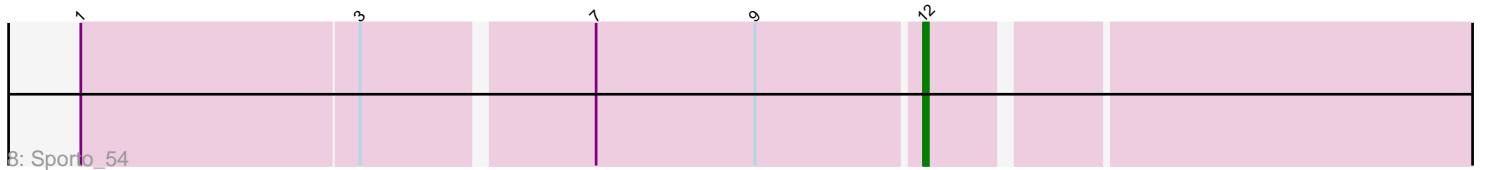
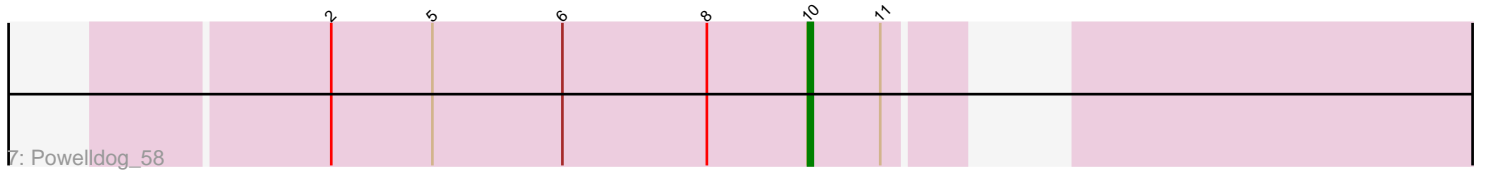
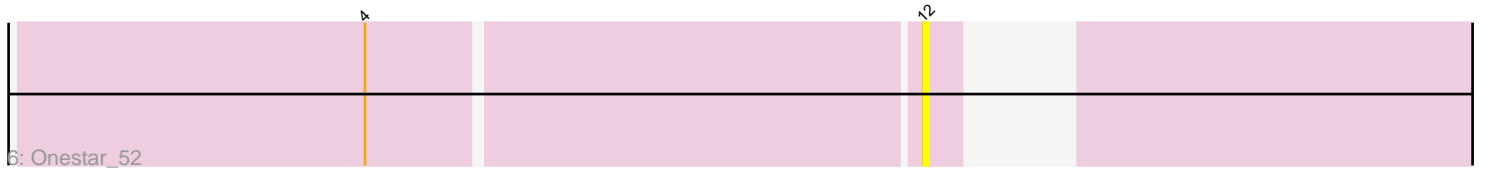
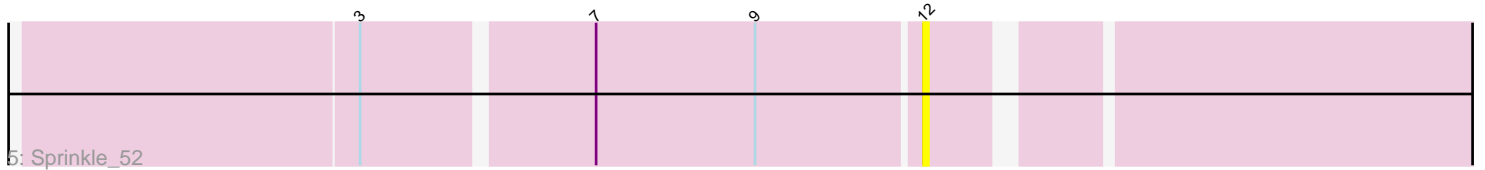
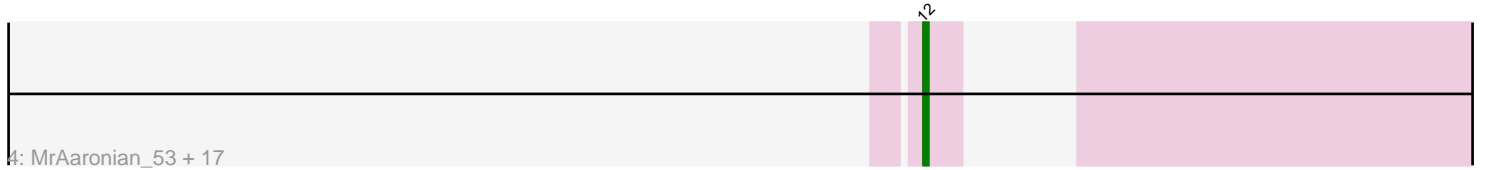
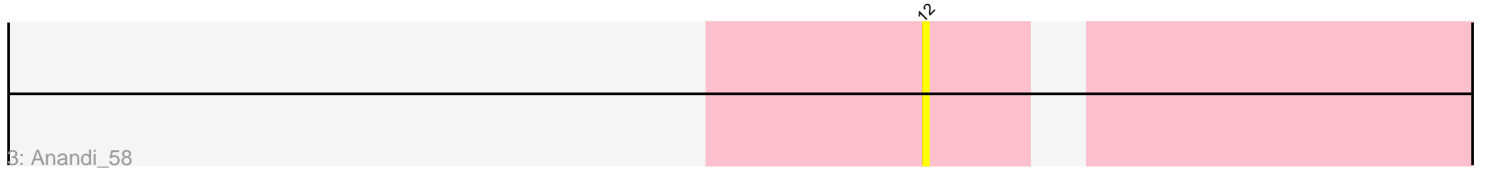
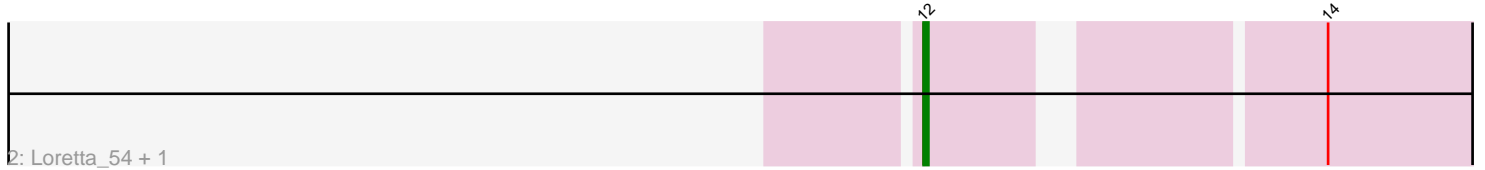
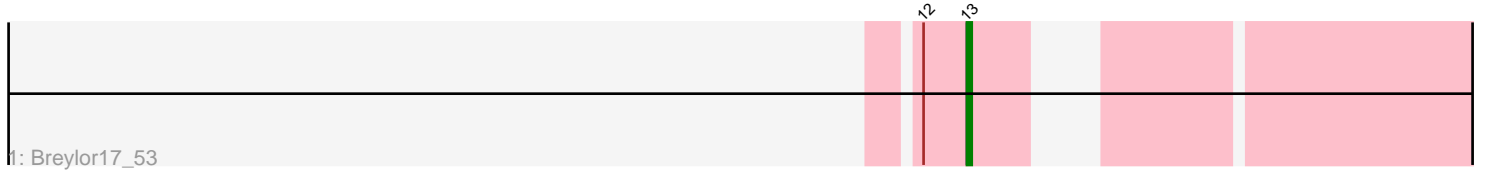


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 296851 Report

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

Pham number 296851 has 27 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Breylor17\_53
- Track 2 : Loretta\_54, Ingrid\_57
- Track 3 : Anandi\_58
- Track 4 : MrAaronian\_53, DoctorPepper\_52, HerbBucket\_53, Djungelskog\_52, Salk\_53, Jeremy4pt0\_52, Stayer\_53, Spain\_55, Sloopyjoe\_53, Raunak\_56, Linda\_53, Boog\_52, BronxBay\_53, StarLord\_53, Egad\_53, Shiba\_52, Michelle\_53, ProfFrink\_53
- Track 5 : Sprinkle\_52
- Track 6 : Onestar\_52
- Track 7 : Powellldog\_58
- Track 8 : Sporto\_54
- Track 9 : RustyBoy\_54

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

The start number called the most often in the published annotations is 12, it was called in 18 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anandi\_58, Boog\_52, BronxBay\_53, Djungelskog\_52, DoctorPepper\_52, Egad\_53, HerbBucket\_53, Ingrid\_57, Jeremy4pt0\_52, Linda\_53, Loretta\_54, Michelle\_53, MrAaronian\_53, Onestar\_52, ProfFrink\_53, Raunak\_56, RustyBoy\_54, Salk\_53, Shiba\_52, Sloopyjoe\_53, Spain\_55, Sporto\_54, Sprinkle\_52, StarLord\_53, Stayer\_53,

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

- Breylor17\_53,

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

- Powellldog\_58,

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

Start 10:

- Found in 1 of 27 ( 3.7% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PowellDog\_58 (AW),

#### Start 12:

- Found in 26 of 27 ( 96.3% ) of genes in pham
- Manual Annotations of this start: 18 of 20
- Called 96.2% of time when present
- Phage (with cluster) where this start called: Anandi\_58 (AU4), Boog\_52 (AW), BronxBay\_53 (AW), Djungelskog\_52 (AW), DoctorPepper\_52 (AW), Egad\_53 (AW), HerbBucket\_53 (AW), Ingrid\_57 (AU3), Jeremy4pt0\_52 (AW), Linda\_53 (AW), Loretta\_54 (AU3), Michelle\_53 (AW), MrAaronian\_53 (AW), Onestar\_52 (AW), ProfFrink\_53 (AW), Raunak\_56 (AW), RustyBoy\_54 (AW), Salk\_53 (AW), Shiba\_52 (AW), Sloopyjoe\_53 (AW), Spain\_55 (AW), Sporto\_54 (AW), Sprinkle\_52 (AW), StarLord\_53 (AW), Stayer\_53 (AW),

#### Start 13:

- Found in 1 of 27 ( 3.7% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Breylor17\_53 (AU1),

### **Summary by clusters:**

There are 4 clusters represented in this pham: AU1, AU3, AU4, AW,

Info for manual annotations of cluster AU1:

- Start number 13 was manually annotated 1 time for cluster AU1.

Info for manual annotations of cluster AU3:

- Start number 12 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AW:

- Start number 10 was manually annotated 1 time for cluster AW.
- Start number 12 was manually annotated 16 times for cluster AW.

### **Gene Information:**

Gene: Anandi\_58 Start: 37497, Stop: 37646, Start Num: 12

Candidate Starts for Anandi\_58:  
(Start: 12 @37497 has 18 MA's),

Gene: Boog\_52 Start: 34544, Stop: 34687, Start Num: 12

Candidate Starts for Boog\_52:  
(Start: 12 @34544 has 18 MA's),

Gene: Breylor17\_53 Start: 37706, Stop: 37849, Start Num: 13

Candidate Starts for Breylor17\_53:  
(Start: 12 @37697 has 18 MA's), (Start: 13 @37706 has 1 MA's),

Gene: BronxBay\_53 Start: 34842, Stop: 34985, Start Num: 12  
Candidate Starts for BronxBay\_53:  
(Start: 12 @34842 has 18 MA's),

Gene: Djungelskog\_52 Start: 34841, Stop: 34984, Start Num: 12  
Candidate Starts for Djungelskog\_52:  
(Start: 12 @34841 has 18 MA's),

Gene: DoctorPepper\_52 Start: 34546, Stop: 34689, Start Num: 12  
Candidate Starts for DoctorPepper\_52:  
(Start: 12 @34546 has 18 MA's),

Gene: Egad\_53 Start: 34843, Stop: 34986, Start Num: 12  
Candidate Starts for Egad\_53:  
(Start: 12 @34843 has 18 MA's),

Gene: HerbBucket\_53 Start: 34541, Stop: 34684, Start Num: 12  
Candidate Starts for HerbBucket\_53:  
(Start: 12 @34541 has 18 MA's),

Gene: Ingrid\_57 Start: 37031, Stop: 37186, Start Num: 12  
Candidate Starts for Ingrid\_57:  
(Start: 12 @37031 has 18 MA's), (14, 37103),

Gene: Jeremy4pt0\_52 Start: 34541, Stop: 34684, Start Num: 12  
Candidate Starts for Jeremy4pt0\_52:  
(Start: 12 @34541 has 18 MA's),

Gene: Linda\_53 Start: 34839, Stop: 34982, Start Num: 12  
Candidate Starts for Linda\_53:  
(Start: 12 @34839 has 18 MA's),

Gene: Loretta\_54 Start: 37031, Stop: 37186, Start Num: 12  
Candidate Starts for Loretta\_54:  
(Start: 12 @37031 has 18 MA's), (14, 37103),

Gene: Michelle\_53 Start: 34841, Stop: 34984, Start Num: 12  
Candidate Starts for Michelle\_53:  
(Start: 12 @34841 has 18 MA's),

Gene: MrAaronian\_53 Start: 34841, Stop: 34984, Start Num: 12  
Candidate Starts for MrAaronian\_53:  
(Start: 12 @34841 has 18 MA's),

Gene: Onestar\_52 Start: 34607, Stop: 34750, Start Num: 12  
Candidate Starts for Onestar\_52:  
(4, 34496), (Start: 12 @34607 has 18 MA's),

Gene: Powelldog\_58 Start: 36041, Stop: 36205, Start Num: 10  
Candidate Starts for Powelldog\_58:  
(2, 35942), (5, 35963), (6, 35990), (8, 36020), (Start: 10 @36041 has 1 MA's), (11, 36056),

Gene: ProfFrink\_53 Start: 34842, Stop: 34985, Start Num: 12  
Candidate Starts for ProfFrink\_53:  
(Start: 12 @34842 has 18 MA's),

Gene: Raunak\_56 Start: 34539, Stop: 34682, Start Num: 12  
Candidate Starts for Raunak\_56:  
(Start: 12 @34539 has 18 MA's),

Gene: RustyBoy\_54 Start: 34630, Stop: 34794, Start Num: 12  
Candidate Starts for RustyBoy\_54:  
(3, 34519), (7, 34564), (9, 34597), (Start: 12 @34630 has 18 MA's),

Gene: Salk\_53 Start: 34839, Stop: 34982, Start Num: 12  
Candidate Starts for Salk\_53:  
(Start: 12 @34839 has 18 MA's),

Gene: Shiba\_52 Start: 34539, Stop: 34682, Start Num: 12  
Candidate Starts for Shiba\_52:  
(Start: 12 @34539 has 18 MA's),

Gene: Sloopyjoe\_53 Start: 34843, Stop: 34986, Start Num: 12  
Candidate Starts for Sloopyjoe\_53:  
(Start: 12 @34843 has 18 MA's),

Gene: Spain\_55 Start: 34841, Stop: 34984, Start Num: 12  
Candidate Starts for Spain\_55:  
(Start: 12 @34841 has 18 MA's),

Gene: Sporto\_54 Start: 36328, Stop: 36486, Start Num: 12  
Candidate Starts for Sporto\_54:  
(1, 36160), (3, 36217), (7, 36262), (9, 36295), (Start: 12 @36328 has 18 MA's),

Gene: Sprinkle\_52 Start: 35366, Stop: 35515, Start Num: 12  
Candidate Starts for Sprinkle\_52:  
(3, 35255), (7, 35300), (9, 35333), (Start: 12 @35366 has 18 MA's),

Gene: StarLord\_53 Start: 34842, Stop: 34985, Start Num: 12  
Candidate Starts for StarLord\_53:  
(Start: 12 @34842 has 18 MA's),

Gene: Stayer\_53 Start: 34839, Stop: 34982, Start Num: 12  
Candidate Starts for Stayer\_53:  
(Start: 12 @34839 has 18 MA's),