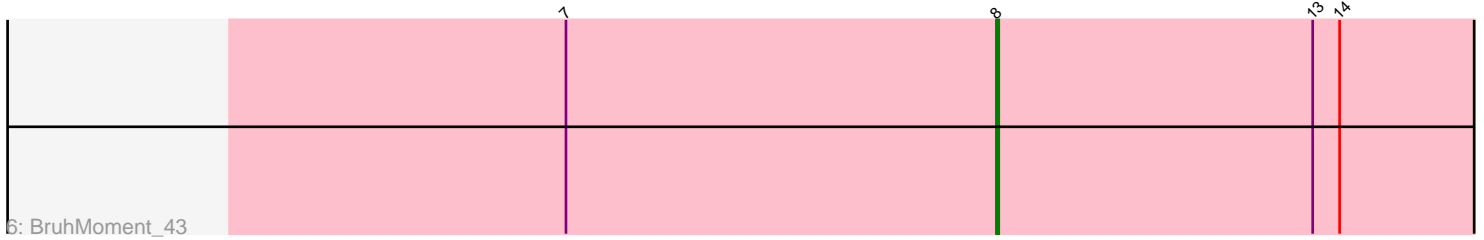
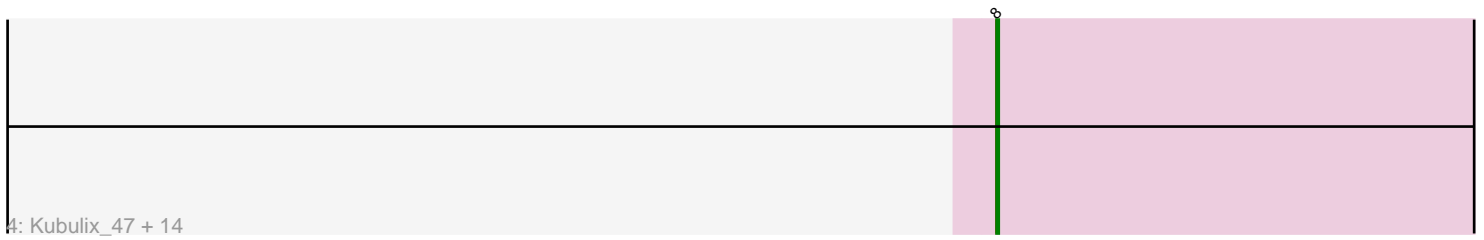
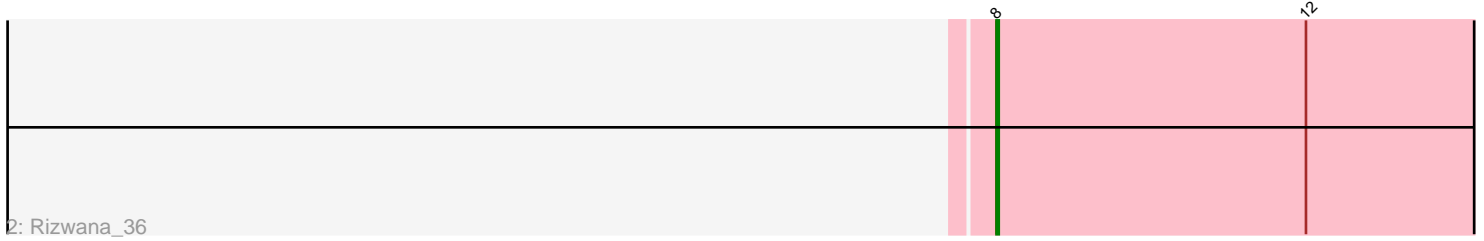
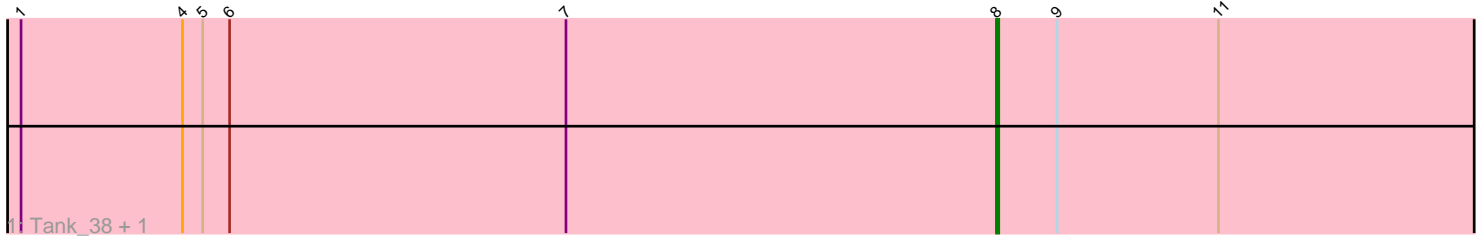


Pham 301749



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 301749 Report

This analysis was run 06/08/26 on database version 649.

Pham number 301749 has 22 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Tank\_38, Wilde\_38
- Track 2 : Rizwana\_36
- Track 3 : Ollypop\_44
- Track 4 : Kubulix\_47, BetaFish\_45, PhuzzTulsa\_43, Beagle\_47, Odyssey395\_48, Pointis\_45, RazzB\_42, DogYard\_46, Pureglobe5\_47, RIPWilbur\_44, Hive\_44, Popstraw\_43, Forrestell\_43, MellowYellow\_43, NyleyClemson\_41
- Track 5 : Ren19\_42, Nikan\_44
- Track 6 : BruhMoment\_43

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

The start number called the most often in the published annotations is 8, it was called in 15 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beagle\_47, BetaFish\_45, BruhMoment\_43, DogYard\_46, Forrestell\_43, Hive\_44, Kubulix\_47, MellowYellow\_43, NyleyClemson\_41, Odyssey395\_48, Ollypop\_44, PhuzzTulsa\_43, Pointis\_45, Popstraw\_43, Pureglobe5\_47, RIPWilbur\_44, RazzB\_42, Rizwana\_36, Tank\_38, Wilde\_38,

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

- Nikan\_44, Ren19\_42,

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

- 

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

Start 8:

- Found in 22 of 22 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 15 of 15
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Beagle\_47 (AP2), BetaFish\_45 (AP2), BruhMoment\_43 (AP3), DogYard\_46 (AP2), Forrestell\_43 (AP2), Hive\_44 (AP2),

Kubulix\_47 (AP2), MellowYellow\_43 (AP2), NyleyClemson\_41 (AP2),  
Odyssey395\_48 (AP2), Ollypop\_44 (AP2), PhuzzTulsa\_43 (AP2), Pointis\_45 (AP2),  
Popstraw\_43 (AP2), Pureglobe5\_47 (AP2), RIPWilbur\_44 (AP2), RazzB\_42 (AP2),  
Rizwana\_36 (AP1), Tank\_38 (AP1), Wilde\_38 (AP1),

Start 9:

- Found in 5 of 22 ( 22.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Nikan\_44 (AP2), Ren19\_42 (AP2),

### **Summary by clusters:**

There are 3 clusters represented in this pham: AP2, AP3, AP1,

Info for manual annotations of cluster AP1:

- Start number 8 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 8 was manually annotated 11 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 8 was manually annotated 1 time for cluster AP3.

### **Gene Information:**

Gene: Beagle\_47 Start: 35088, Stop: 35303, Start Num: 8

Candidate Starts for Beagle\_47:

(Start: 8 @35088 has 15 MA's),

Gene: BetaFish\_45 Start: 35282, Stop: 35497, Start Num: 8

Candidate Starts for BetaFish\_45:

(Start: 8 @35282 has 15 MA's),

Gene: BruhMoment\_43 Start: 36452, Stop: 36667, Start Num: 8

Candidate Starts for BruhMoment\_43:

(7, 36260), (Start: 8 @36452 has 15 MA's), (13, 36593), (14, 36605),

Gene: DogYard\_46 Start: 34982, Stop: 35197, Start Num: 8

Candidate Starts for DogYard\_46:

(Start: 8 @34982 has 15 MA's),

Gene: Forrestell\_43 Start: 33457, Stop: 33672, Start Num: 8

Candidate Starts for Forrestell\_43:

(Start: 8 @33457 has 15 MA's),

Gene: Hive\_44 Start: 35163, Stop: 35378, Start Num: 8

Candidate Starts for Hive\_44:

(Start: 8 @35163 has 15 MA's),

Gene: Kubulix\_47 Start: 34930, Stop: 35145, Start Num: 8

Candidate Starts for Kubulix\_47:  
(Start: 8 @34930 has 15 MA's),

Gene: MellowYellow\_43 Start: 33823, Stop: 34038, Start Num: 8  
Candidate Starts for MellowYellow\_43:  
(Start: 8 @33823 has 15 MA's),

Gene: Nikan\_44 Start: 34133, Stop: 34321, Start Num: 9  
Candidate Starts for Nikan\_44:  
(2, 33710), (3, 33728), (Start: 8 @34106 has 15 MA's), (9, 34133), (10, 34175), (15, 34289),

Gene: NyleyClemson\_41 Start: 33438, Stop: 33653, Start Num: 8  
Candidate Starts for NyleyClemson\_41:  
(Start: 8 @33438 has 15 MA's),

Gene: Odyssey395\_48 Start: 35107, Stop: 35322, Start Num: 8  
Candidate Starts for Odyssey395\_48:  
(Start: 8 @35107 has 15 MA's),

Gene: Ollypop\_44 Start: 35198, Stop: 35413, Start Num: 8  
Candidate Starts for Ollypop\_44:  
(Start: 8 @35198 has 15 MA's), (9, 35225),

Gene: PhuzzTulsa\_43 Start: 35067, Stop: 35282, Start Num: 8  
Candidate Starts for PhuzzTulsa\_43:  
(Start: 8 @35067 has 15 MA's),

Gene: Pointis\_45 Start: 35105, Stop: 35320, Start Num: 8  
Candidate Starts for Pointis\_45:  
(Start: 8 @35105 has 15 MA's),

Gene: Popstraw\_43 Start: 34891, Stop: 35106, Start Num: 8  
Candidate Starts for Popstraw\_43:  
(Start: 8 @34891 has 15 MA's),

Gene: Pureglobe5\_47 Start: 35288, Stop: 35503, Start Num: 8  
Candidate Starts for Pureglobe5\_47:  
(Start: 8 @35288 has 15 MA's),

Gene: RIPWilbur\_44 Start: 34421, Stop: 34636, Start Num: 8  
Candidate Starts for RIPWilbur\_44:  
(Start: 8 @34421 has 15 MA's),

Gene: RazzB\_42 Start: 33569, Stop: 33784, Start Num: 8  
Candidate Starts for RazzB\_42:  
(Start: 8 @33569 has 15 MA's),

Gene: Ren19\_42 Start: 34133, Stop: 34321, Start Num: 9  
Candidate Starts for Ren19\_42:  
(2, 33710), (3, 33728), (Start: 8 @34106 has 15 MA's), (9, 34133), (10, 34175), (15, 34289),

Gene: Rizwana\_36 Start: 35308, Stop: 35523, Start Num: 8  
Candidate Starts for Rizwana\_36:

(Start: 8 @35308 has 15 MA's), (12, 35446),

Gene: Tank\_38 Start: 35341, Stop: 35556, Start Num: 8

Candidate Starts for Tank\_38:

(1, 34906), (4, 34978), (5, 34987), (6, 34999), (7, 35149), (Start: 8 @35341 has 15 MA's), (9, 35368), (11, 35440),

Gene: Wilde\_38 Start: 35183, Stop: 35398, Start Num: 8

Candidate Starts for Wilde\_38:

(1, 34748), (4, 34820), (5, 34829), (6, 34841), (7, 34991), (Start: 8 @35183 has 15 MA's), (9, 35210), (11, 35282),