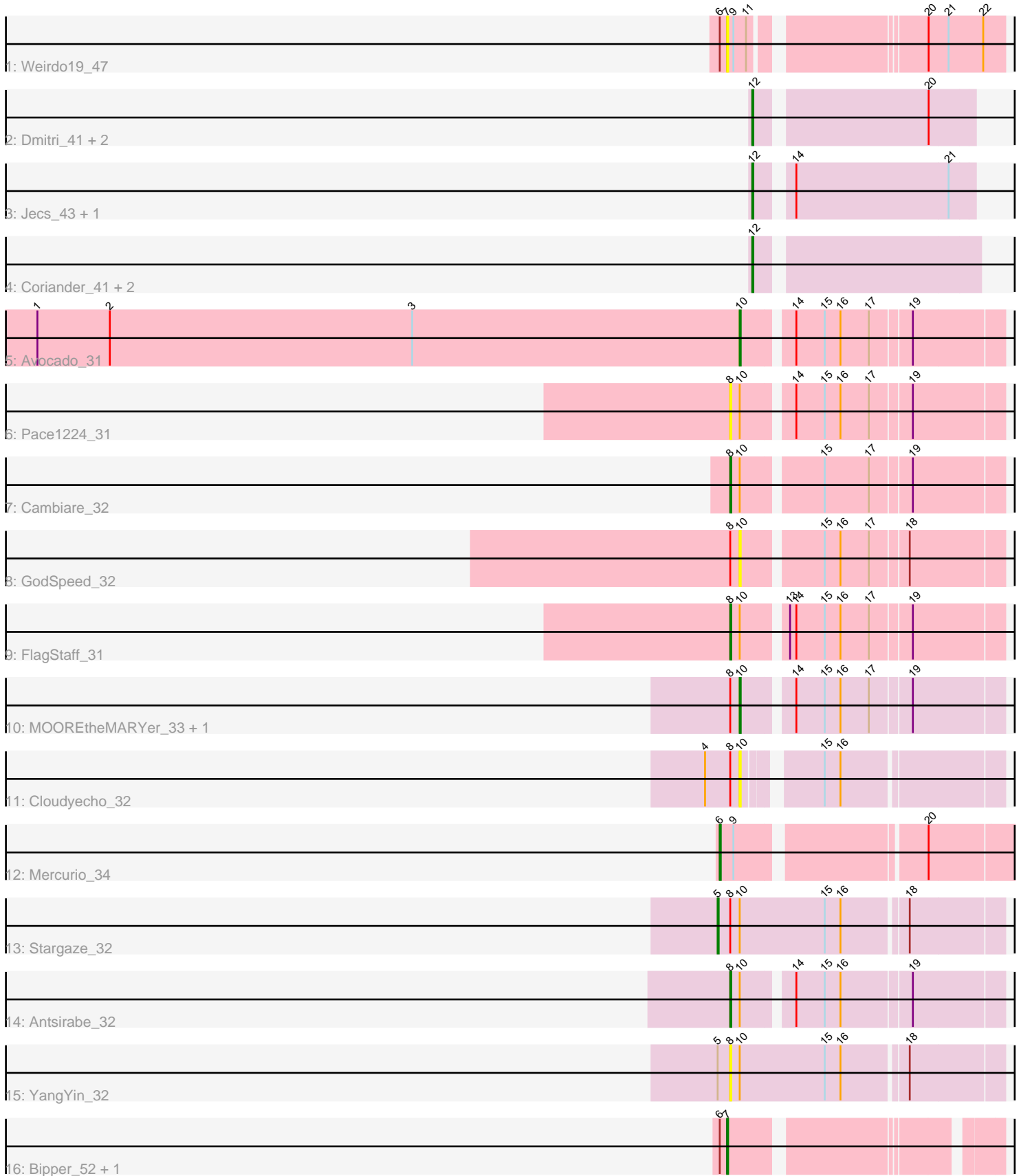


Pham 309219



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 309219 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309219 has 23 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Weirdo19\_47
- Track 2 : Dmitri\_41, Chipko\_46, Moonflower\_40
- Track 3 : Jecs\_43, Opie\_44
- Track 4 : Coriander\_41, Doggs\_38, TaronosaurusRx\_43
- Track 5 : Avocado\_31
- Track 6 : Pace1224\_31
- Track 7 : Cambiare\_32
- Track 8 : GodSpeed\_32
- Track 9 : FlagStaff\_31
- Track 10 : MOOREtheMARYer\_33, Pinnie\_33
- Track 11 : Cloudyecho\_32
- Track 12 : Mercurio\_34
- Track 13 : Stargaze\_32
- Track 14 : Antsirabe\_32
- Track 15 : YangYin\_32
- Track 16 : Bipper\_52, Cracklewink\_52

### ***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 5 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chipko\_46, Coriander\_41, Dmitri\_41, Doggs\_38, Jecs\_43, Moonflower\_40, Opie\_44, TaronosaurusRx\_43,

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

- 

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

- Antsirabe\_32, Avocado\_31, Bipper\_52, Cambiare\_32, Cloudyecho\_32, Cracklewink\_52, FlagStaff\_31, GodSpeed\_32, MOOREtheMARYer\_33, Mercurio\_34, Pace1224\_31, Pinnie\_33, Stargaze\_32, Weirdo19\_47, YangYin\_32,

## Summary by start number:

### Start 5:

- Found in 2 of 23 ( 8.7% ) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Stargaze\_32 (G5),

### Start 6:

- Found in 4 of 23 ( 17.4% ) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Mercurio\_34 (G4),

### Start 7:

- Found in 3 of 23 ( 13.0% ) of genes in pham
- Manual Annotations of this start: 2 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bipper\_52 (Y), Cracklewink\_52 (Y), Weirido19\_47 (AH),

### Start 8:

- Found in 10 of 23 ( 43.5% ) of genes in pham
- Manual Annotations of this start: 3 of 15
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Antsirabe\_32 (G5), Cambiare\_32 (G2), FlagStaff\_31 (G2), Pace1224\_31 (G2), YangYin\_32 (G5),

### Start 10:

- Found in 11 of 23 ( 47.8% ) of genes in pham
- Manual Annotations of this start: 3 of 15
- Called 45.5% of time when present
- Phage (with cluster) where this start called: Avocado\_31 (G2), Cloudyecho\_32 (G3), GodSpeed\_32 (G2), MOOREtheMARYer\_33 (G3), Pinnie\_33 (G3),

### Start 12:

- Found in 8 of 23 ( 34.8% ) of genes in pham
- Manual Annotations of this start: 5 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chipko\_46 (DB), Coriander\_41 (DB), Dmitri\_41 (DB), Doggs\_38 (DB), Jecs\_43 (DB), Moonflower\_40 (DB), Opie\_44 (DB), TaronosaurusRx\_43 (DB),

## Summary by clusters:

There are 7 clusters represented in this pham: G5, G4, G3, G2, AH, DB, Y,

### Info for manual annotations of cluster DB:

- Start number 12 was manually annotated 5 times for cluster DB.

### Info for manual annotations of cluster G2:

- Start number 8 was manually annotated 2 times for cluster G2.

- Start number 10 was manually annotated 1 time for cluster G2.

Info for manual annotations of cluster G3:

- Start number 10 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 6 was manually annotated 1 time for cluster G4.

Info for manual annotations of cluster G5:

- Start number 5 was manually annotated 1 time for cluster G5.
- Start number 8 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster Y:

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

### **Gene Information:**

Gene: Antsirabe\_32 Start: 29568, Stop: 29807, Start Num: 8

Candidate Starts for Antsirabe\_32:

(Start: 8 @29568 has 3 MA's), (Start: 10 @29577 has 3 MA's), (14, 29619), (15, 29646), (16, 29661), (19, 29724),

Gene: Avocado\_31 Start: 29572, Stop: 29802, Start Num: 10

Candidate Starts for Avocado\_31:

(1, 28903), (2, 28972), (3, 29260), (Start: 10 @29572 has 3 MA's), (14, 29614), (15, 29641), (16, 29656), (17, 29683), (19, 29719),

Gene: Bipper\_52 Start: 40190, Stop: 40414, Start Num: 7

Candidate Starts for Bipper\_52:

(Start: 6 @40184 has 1 MA's), (Start: 7 @40190 has 2 MA's),

Gene: Cambiare\_32 Start: 30030, Stop: 30269, Start Num: 8

Candidate Starts for Cambiare\_32:

(Start: 8 @30030 has 3 MA's), (Start: 10 @30039 has 3 MA's), (15, 30108), (17, 30150), (19, 30186),

Gene: Chipko\_46 Start: 34356, Stop: 34550, Start Num: 12

Candidate Starts for Chipko\_46:

(Start: 12 @34356 has 5 MA's), (20, 34509),

Gene: Cloudyecho\_32 Start: 29772, Stop: 29990, Start Num: 10

Candidate Starts for Cloudyecho\_32:

(4, 29739), (Start: 8 @29763 has 3 MA's), (Start: 10 @29772 has 3 MA's), (15, 29832), (16, 29847),

Gene: Coriander\_41 Start: 31926, Stop: 32126, Start Num: 12

Candidate Starts for Coriander\_41:

(Start: 12 @31926 has 5 MA's),

Gene: Cracklewink\_52 Start: 40183, Stop: 40407, Start Num: 7

Candidate Starts for Cracklewink\_52:

(Start: 6 @40177 has 1 MA's), (Start: 7 @40183 has 2 MA's),

Gene: Dmitri\_41 Start: 33516, Stop: 33710, Start Num: 12

Candidate Starts for Dmitri\_41:

(Start: 12 @33516 has 5 MA's), (20, 33669),

Gene: Doggs\_38 Start: 32655, Stop: 32855, Start Num: 12

Candidate Starts for Doggs\_38:

(Start: 12 @32655 has 5 MA's),

Gene: FlagStaff\_31 Start: 29350, Stop: 29589, Start Num: 8

Candidate Starts for FlagStaff\_31:

(Start: 8 @29350 has 3 MA's), (Start: 10 @29359 has 3 MA's), (13, 29395), (14, 29401), (15, 29428), (16, 29443), (17, 29470), (19, 29506),

Gene: GodSpeed\_32 Start: 29382, Stop: 29612, Start Num: 10

Candidate Starts for GodSpeed\_32:

(Start: 8 @29373 has 3 MA's), (Start: 10 @29382 has 3 MA's), (15, 29451), (16, 29466), (17, 29493), (18, 29526),

Gene: Jecs\_43 Start: 32124, Stop: 32318, Start Num: 12

Candidate Starts for Jecs\_43:

(Start: 12 @32124 has 5 MA's), (14, 32151), (21, 32295),

Gene: MOOREtheMARYer\_33 Start: 29854, Stop: 30084, Start Num: 10

Candidate Starts for MOOREtheMARYer\_33:

(Start: 8 @29845 has 3 MA's), (Start: 10 @29854 has 3 MA's), (14, 29896), (15, 29923), (16, 29938), (17, 29965), (19, 30001),

Gene: Mercurio\_34 Start: 30005, Stop: 30259, Start Num: 6

Candidate Starts for Mercurio\_34:

(Start: 6 @30005 has 1 MA's), (9, 30017), (20, 30179),

Gene: Moonflower\_40 Start: 33379, Stop: 33573, Start Num: 12

Candidate Starts for Moonflower\_40:

(Start: 12 @33379 has 5 MA's), (20, 33532),

Gene: Opie\_44 Start: 33313, Stop: 33507, Start Num: 12

Candidate Starts for Opie\_44:

(Start: 12 @33313 has 5 MA's), (14, 33340), (21, 33484),

Gene: Pace1224\_31 Start: 29350, Stop: 29589, Start Num: 8

Candidate Starts for Pace1224\_31:

(Start: 8 @29350 has 3 MA's), (Start: 10 @29359 has 3 MA's), (14, 29401), (15, 29428), (16, 29443), (17, 29470), (19, 29506),

Gene: Pinnie\_33 Start: 30225, Stop: 30455, Start Num: 10

Candidate Starts for Pinnie\_33:

(Start: 8 @30216 has 3 MA's), (Start: 10 @30225 has 3 MA's), (14, 30267), (15, 30294), (16, 30309), (17, 30336), (19, 30372),

Gene: Stargaze\_32 Start: 29578, Stop: 29838, Start Num: 5

Candidate Starts for Stargaze\_32:

(Start: 5 @29578 has 1 MA's), (Start: 8 @29590 has 3 MA's), (Start: 10 @29599 has 3 MA's), (15, 29680), (16, 29695), (18, 29752),

Gene: TaronosaurusRx\_43 Start: 31715, Stop: 31909, Start Num: 12

Candidate Starts for TaronosaurusRx\_43:

(Start: 12 @31715 has 5 MA's),

Gene: Weirido19\_47 Start: 35144, Stop: 35377, Start Num: 7

Candidate Starts for Weirido19\_47:

(Start: 6 @35138 has 1 MA's), (Start: 7 @35144 has 2 MA's), (9, 35150), (11, 35162), (20, 35306), (21, 35324), (22, 35357),

Gene: YangYin\_32 Start: 29616, Stop: 29864, Start Num: 8

Candidate Starts for YangYin\_32:

(Start: 5 @29604 has 1 MA's), (Start: 8 @29616 has 3 MA's), (Start: 10 @29625 has 3 MA's), (15, 29706), (16, 29721), (18, 29778),