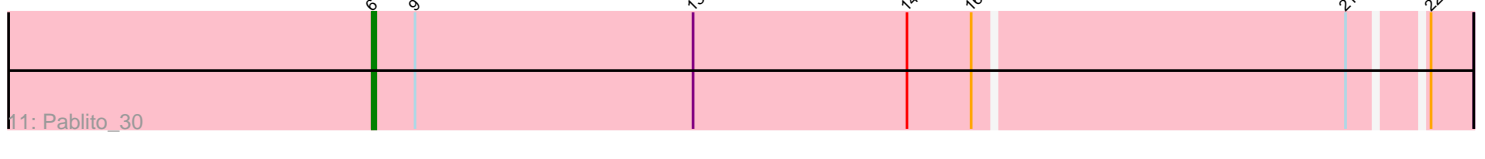
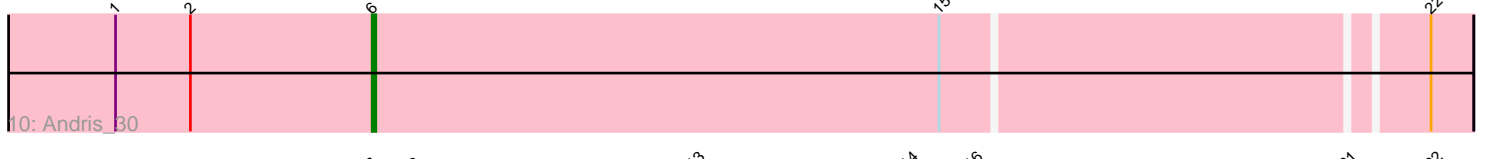
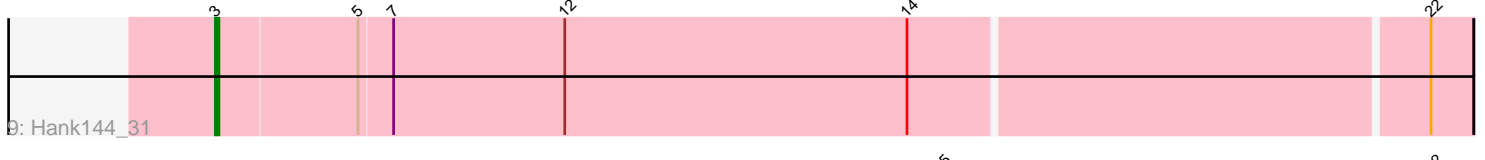
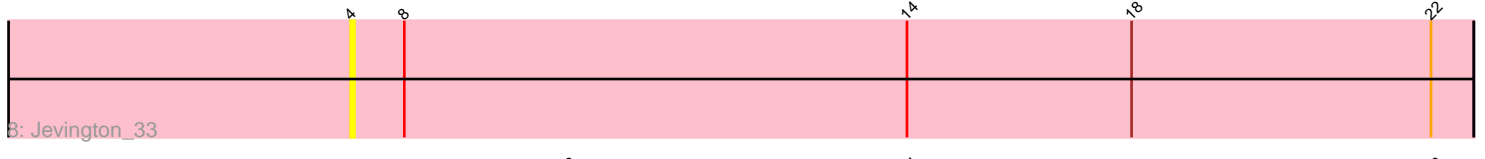
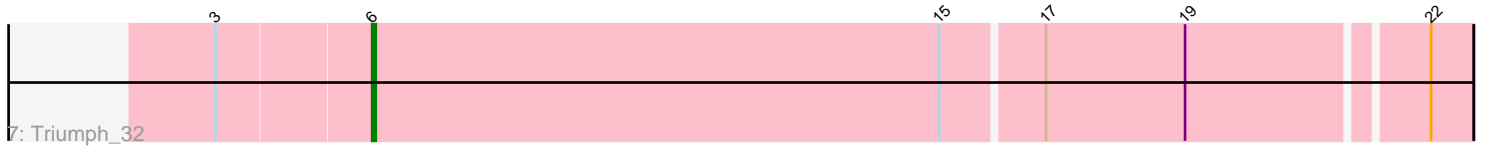
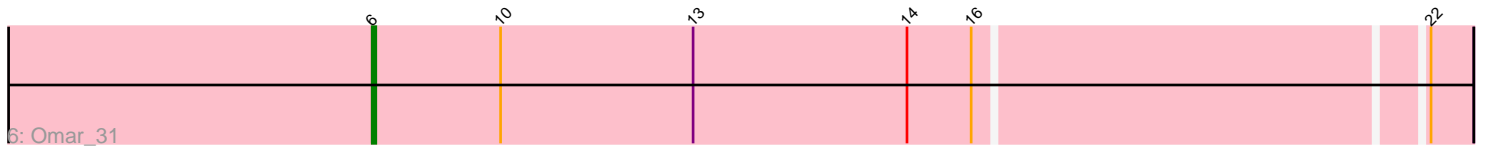
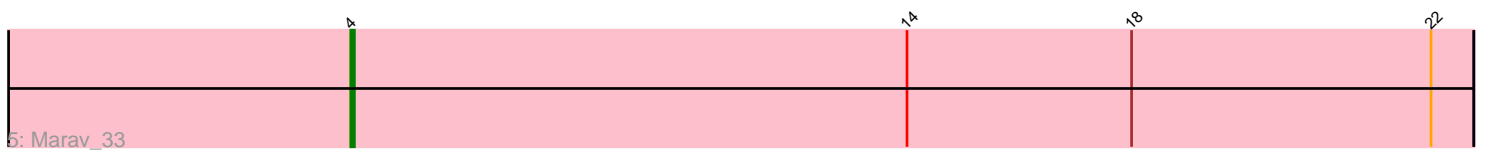
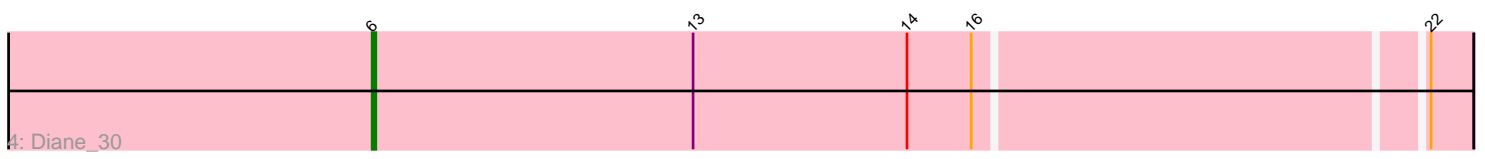
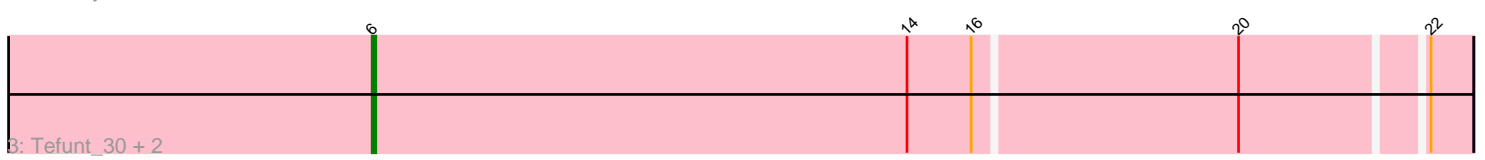
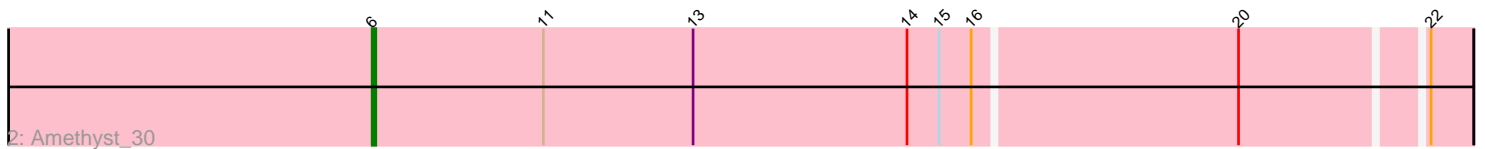
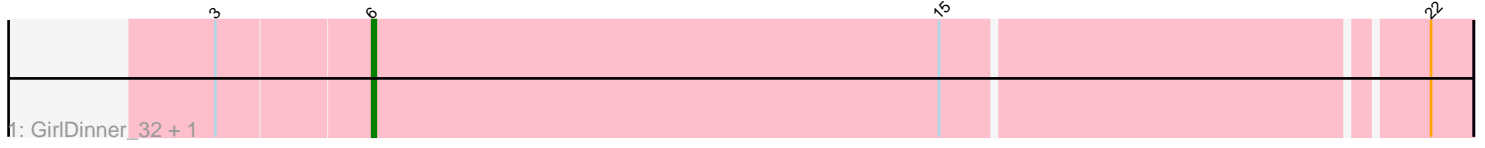


Pham 158282



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 158282 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158282 has 14 members, 2 are drafts.

Phages represented in each track:

- Track 1 : GirlDinner\_32, Janus\_31
- Track 2 : Amethyst\_30
- Track 3 : Tefunt\_30, Nishikigoi\_30, Haizum\_30
- Track 4 : Diane\_30
- Track 5 : Marav\_33
- Track 6 : Omar\_31
- Track 7 : Triumph\_32
- Track 8 : Jevington\_33
- Track 9 : Hank144\_31
- Track 10 : Andris\_30
- Track 11 : Pablito\_30

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

The start number called the most often in the published annotations is 6, it was called in 10 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amethyst\_30, Andris\_30, Diane\_30, GirlDinner\_32, Haizum\_30, Janus\_31, Nishikigoi\_30, Omar\_31, Pablito\_30, Tefunt\_30, Triumph\_32,

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

- 

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

- Hank144\_31, Jevington\_33, Marav\_33,

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

Start 3:

- Found in 4 of 14 ( 28.6% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Hank144\_31 (BD2),

Start 4:

- Found in 2 of 14 ( 14.3% ) 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: Jevington\_33 (BD2), Marav\_33 (BD2),

Start 6:

- Found in 11 of 14 ( 78.6% ) of genes in pham
- Manual Annotations of this start: 10 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amethyst\_30 (BD2), Andris\_30 (BD2), Diane\_30 (BD2), GirlDinner\_32 (BD2), Haizum\_30 (BD2), Janus\_31 (BD2), Nishikigoi\_30 (BD2), Omar\_31 (BD2), Pablito\_30 (BD2), Tefunt\_30 (BD2), Triumph\_32 (BD2),

**Summary by clusters:**

There is one cluster represented in this pham: BD2

Info for manual annotations of cluster BD2:

- Start number 3 was manually annotated 1 time for cluster BD2.
- Start number 4 was manually annotated 1 time for cluster BD2.
- Start number 6 was manually annotated 10 times for cluster BD2.

**Gene Information:**

Gene: Amethyst\_30 Start: 23945, Stop: 24244, Start Num: 6

Candidate Starts for Amethyst\_30:

(Start: 6 @23945 has 10 MA's), (11, 23993), (13, 24035), (14, 24095), (15, 24104), (16, 24113), (20, 24185), (22, 24233),

Gene: Andris\_30 Start: 23975, Stop: 24274, Start Num: 6

Candidate Starts for Andris\_30:

(1, 23903), (2, 23924), (Start: 6 @23975 has 10 MA's), (15, 24134), (22, 24263),

Gene: Diane\_30 Start: 24288, Stop: 24587, Start Num: 6

Candidate Starts for Diane\_30:

(Start: 6 @24288 has 10 MA's), (13, 24378), (14, 24438), (16, 24456), (22, 24576),

Gene: GirlDinner\_32 Start: 23927, Stop: 24226, Start Num: 6

Candidate Starts for GirlDinner\_32:

(Start: 3 @23885 has 1 MA's), (Start: 6 @23927 has 10 MA's), (15, 24086), (22, 24215),

Gene: Haizum\_30 Start: 23962, Stop: 24261, Start Num: 6

Candidate Starts for Haizum\_30:

(Start: 6 @23962 has 10 MA's), (14, 24112), (16, 24130), (20, 24202), (22, 24250),

Gene: Hank144\_31 Start: 24298, Stop: 24642, Start Num: 3

Candidate Starts for Hank144\_31:

(Start: 3 @24298 has 1 MA's), (5, 24337), (7, 24346), (12, 24394), (14, 24490), (22, 24631),

Gene: Janus\_31 Start: 24265, Stop: 24564, Start Num: 6

Candidate Starts for Janus\_31:

(Start: 3 @24223 has 1 MA's), (Start: 6 @24265 has 10 MA's), (15, 24424), (22, 24553),

Gene: Jevington\_33 Start: 24613, Stop: 24927, Start Num: 4

Candidate Starts for Jevington\_33:

(Start: 4 @24613 has 1 MA's), (8, 24628), (14, 24769), (18, 24832), (22, 24916),

Gene: Marav\_33 Start: 24943, Stop: 25257, Start Num: 4

Candidate Starts for Marav\_33:

(Start: 4 @24943 has 1 MA's), (14, 25099), (18, 25162), (22, 25246),

Gene: Nishikigoi\_30 Start: 23962, Stop: 24261, Start Num: 6

Candidate Starts for Nishikigoi\_30:

(Start: 6 @23962 has 10 MA's), (14, 24112), (16, 24130), (20, 24202), (22, 24250),

Gene: Omar\_31 Start: 24224, Stop: 24523, Start Num: 6

Candidate Starts for Omar\_31:

(Start: 6 @24224 has 10 MA's), (10, 24260), (13, 24314), (14, 24374), (16, 24392), (22, 24512),

Gene: Pablito\_30 Start: 23843, Stop: 24142, Start Num: 6

Candidate Starts for Pablito\_30:

(Start: 6 @23843 has 10 MA's), (9, 23855), (13, 23933), (14, 23993), (16, 24011), (21, 24113), (22, 24131),

Gene: Tefunt\_30 Start: 23965, Stop: 24264, Start Num: 6

Candidate Starts for Tefunt\_30:

(Start: 6 @23965 has 10 MA's), (14, 24115), (16, 24133), (20, 24205), (22, 24253),

Gene: Triumph\_32 Start: 24163, Stop: 24462, Start Num: 6

Candidate Starts for Triumph\_32:

(Start: 3 @24121 has 1 MA's), (Start: 6 @24163 has 10 MA's), (15, 24322), (17, 24349), (19, 24388), (22, 24451),