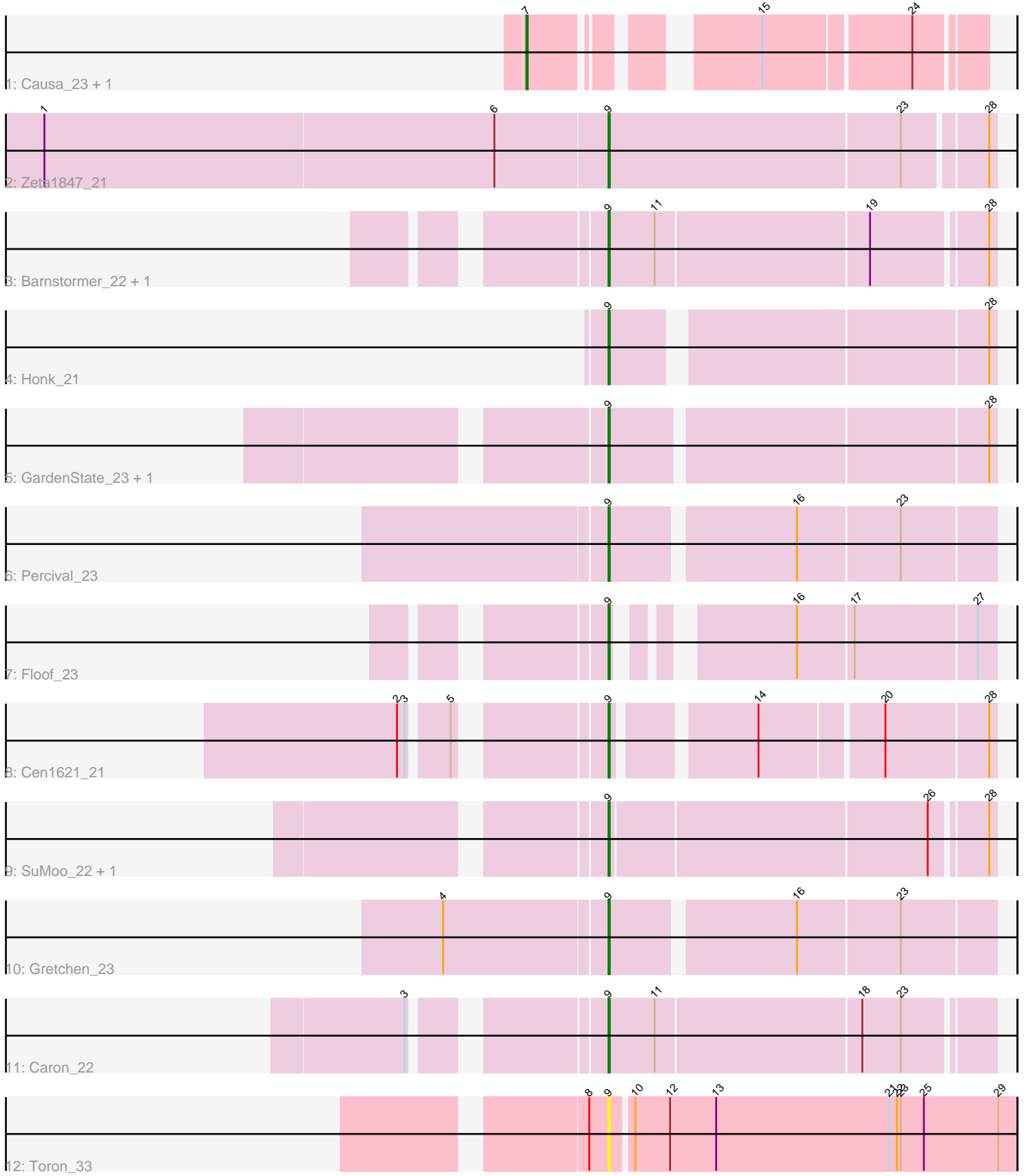


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 216651 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216651 has 16 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Causa\_23, StAugustine\_21
- Track 2 : Zeta1847\_21
- Track 3 : Barnstormer\_22, UtzChips\_22
- Track 4 : Honk\_21
- Track 5 : GardenState\_23, IAmGroot\_23
- Track 6 : Percival\_23
- Track 7 : Floof\_23
- Track 8 : Cen1621\_21
- Track 9 : SuMoo\_22, Mabodamaca\_23
- Track 10 : Gretchen\_23
- Track 11 : Caron\_22
- Track 12 : Toron\_33

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

The start number called the most often in the published annotations is 9, it was called in 13 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Barnstormer\_22, Caron\_22, Cen1621\_21, Floof\_23, GardenState\_23, Gretchen\_23, Honk\_21, IAmGroot\_23, Mabodamaca\_23, Percival\_23, SuMoo\_22, Toron\_33, UtzChips\_22, Zeta1847\_21,

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

- 

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

- Causa\_23, StAugustine\_21,

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

Start 7:

- Found in 2 of 16 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 14

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa\_23 (AI), StAugustine\_21 (AI),

Start 9:

- Found in 14 of 16 ( 87.5% ) of genes in pham
- Manual Annotations of this start: 13 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnstormer\_22 (EH), Caron\_22 (EH), Cen1621\_21 (EH), Floof\_23 (EH), GardenState\_23 (EH), Gretchen\_23 (EH), Honk\_21 (EH), IAmGroot\_23 (EH), Mabodamaca\_23 (EH), Percival\_23 (EH), SuMoo\_22 (EH), Toron\_33 (F6), UtzChips\_22 (EH), Zeta1847\_21 (EH),

### **Summary by clusters:**

There are 3 clusters represented in this pham: AI, EH, F6,

Info for manual annotations of cluster AI:

- Start number 7 was manually annotated 1 time for cluster AI.

Info for manual annotations of cluster EH:

- Start number 9 was manually annotated 13 times for cluster EH.

### **Gene Information:**

Gene: Barnstormer\_22 Start: 18840, Stop: 19127, Start Num: 9

Candidate Starts for Barnstormer\_22:

(Start: 9 @18840 has 13 MA's), (11, 18876), (19, 19038), (28, 19122),

Gene: Caron\_22 Start: 18225, Stop: 18512, Start Num: 9

Candidate Starts for Caron\_22:

(3, 18102), (Start: 9 @18225 has 13 MA's), (11, 18261), (18, 18417), (23, 18447),

Gene: Causa\_23 Start: 16883, Stop: 17179, Start Num: 7

Candidate Starts for Causa\_23:

(Start: 7 @16883 has 1 MA's), (15, 17021), (24, 17129),

Gene: Cen1621\_21 Start: 17291, Stop: 17560, Start Num: 9

Candidate Starts for Cen1621\_21:

(2, 17165), (3, 17171), (5, 17198), (Start: 9 @17291 has 13 MA's), (14, 17387), (20, 17477), (28, 17555),

Gene: Floof\_23 Start: 18951, Stop: 19205, Start Num: 9

Candidate Starts for Floof\_23:

(Start: 9 @18951 has 13 MA's), (16, 19056), (17, 19098), (27, 19191),

Gene: GardenState\_23 Start: 19313, Stop: 19597, Start Num: 9

Candidate Starts for GardenState\_23:

(Start: 9 @19313 has 13 MA's), (28, 19592),

Gene: Gretchen\_23 Start: 19981, Stop: 20262, Start Num: 9

Candidate Starts for Gretchen\_23:

(4, 19858), (Start: 9 @19981 has 13 MA's), (16, 20113), (23, 20191),

Gene: Honk\_21 Start: 17157, Stop: 17432, Start Num: 9

Candidate Starts for Honk\_21:

(Start: 9 @17157 has 13 MA's), (28, 17427),

Gene: IAmGroot\_23 Start: 19974, Stop: 20258, Start Num: 9

Candidate Starts for IAmGroot\_23:

(Start: 9 @19974 has 13 MA's), (28, 20253),

Gene: Mabodamaca\_23 Start: 19124, Stop: 19408, Start Num: 9

Candidate Starts for Mabodamaca\_23:

(Start: 9 @19124 has 13 MA's), (26, 19364), (28, 19403),

Gene: Percival\_23 Start: 19815, Stop: 20096, Start Num: 9

Candidate Starts for Percival\_23:

(Start: 9 @19815 has 13 MA's), (16, 19947), (23, 20025),

Gene: StAugustine\_21 Start: 16877, Stop: 17173, Start Num: 7

Candidate Starts for StAugustine\_21:

(Start: 7 @16877 has 1 MA's), (15, 17015), (24, 17123),

Gene: SuMoo\_22 Start: 18079, Stop: 18363, Start Num: 9

Candidate Starts for SuMoo\_22:

(Start: 9 @18079 has 13 MA's), (26, 18319), (28, 18358),

Gene: Toron\_33 Start: 29073, Stop: 29384, Start Num: 9

Candidate Starts for Toron\_33:

(8, 29058), (Start: 9 @29073 has 13 MA's), (10, 29088), (12, 29115), (13, 29151), (21, 29286), (22, 29292), (23, 29295), (25, 29313), (29, 29370),

Gene: UtzChips\_22 Start: 18828, Stop: 19115, Start Num: 9

Candidate Starts for UtzChips\_22:

(Start: 9 @18828 has 13 MA's), (11, 18864), (19, 19026), (28, 19110),

Gene: Zeta1847\_21 Start: 18934, Stop: 19224, Start Num: 9

Candidate Starts for Zeta1847\_21:

(1, 18499), (6, 18847), (Start: 9 @18934 has 13 MA's), (23, 19159), (28, 19219),