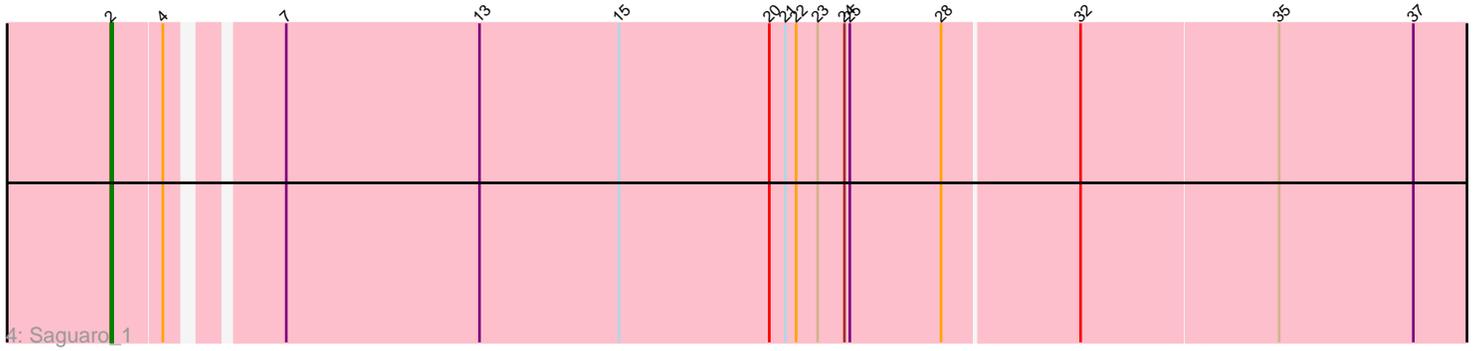
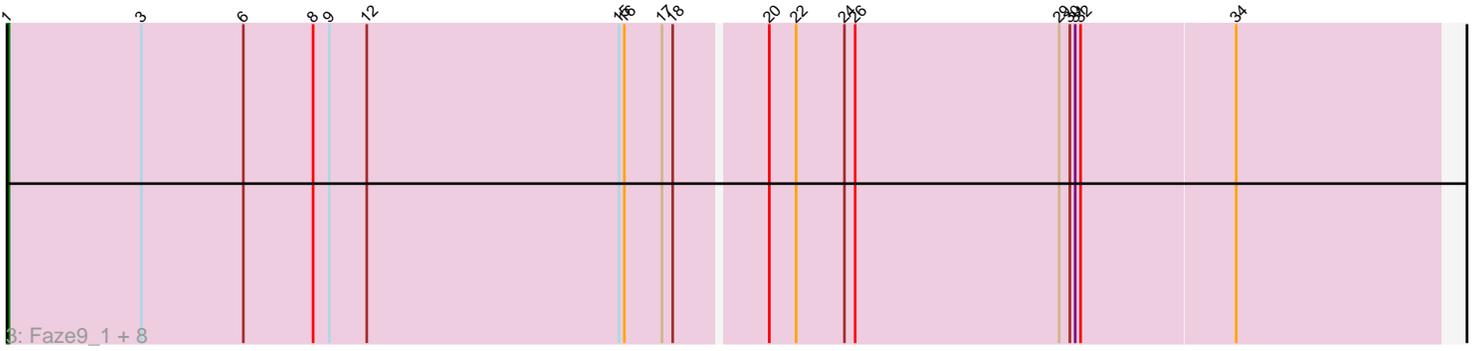
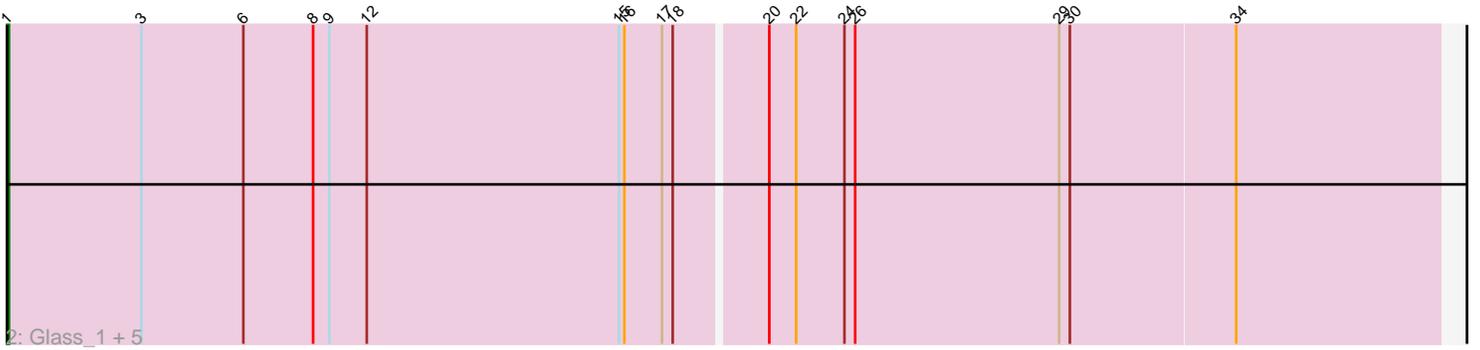
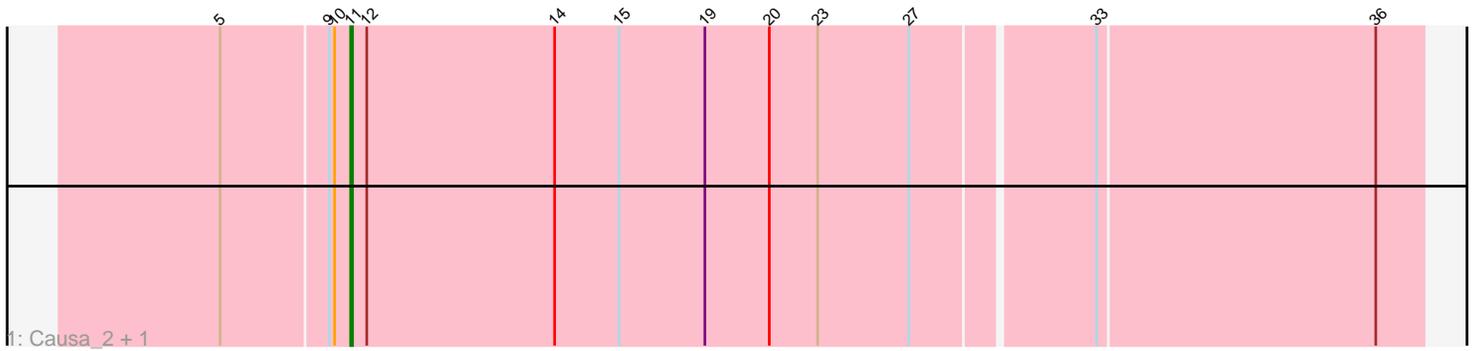


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 284232 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284232 has 18 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Causa\_2, StAugustine\_2
- Track 2 : Glass\_1, LizLemon\_1, Arbiter\_1, Lars\_1, Qyrzula\_1, Rhinoforte\_1
- Track 3 : Faze9\_1, Rosebush\_1, Boyle\_1, Hedgerow\_1, Brownie5\_1, Coffee\_1, FrenchFry\_1, West99\_1, Tinciduntolum\_1
- Track 4 : Saguaro\_1

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

The start number called the most often in the published annotations is 1, it was called in 15 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arbiter\_1, Boyle\_1, Brownie5\_1, Coffee\_1, Faze9\_1, FrenchFry\_1, Glass\_1, Hedgerow\_1, Lars\_1, LizLemon\_1, Qyrzula\_1, Rhinoforte\_1, Rosebush\_1, Tinciduntolum\_1, West99\_1,

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

- 

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

- Causa\_2, Saguaro\_1, StAugustine\_2,

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

Start 1:

- Found in 15 of 18 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 15 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arbiter\_1 (B2), Boyle\_1 (B2), Brownie5\_1 (B2), Coffee\_1 (B2), Faze9\_1 (B2), FrenchFry\_1 (B2), Glass\_1 (B2), Hedgerow\_1 (B2), Lars\_1 (B2), LizLemon\_1 (B2), Qyrzula\_1 (B2), Rhinoforte\_1 (B2), Rosebush\_1 (B2), Tinciduntolum\_1 (B2), West99\_1 (B2),

Start 2:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Saguaro\_1 (B7),

Start 11:

- Found in 2 of 18 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa\_2 (A1), StAugustine\_2 (A1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: A1, B7, B2,

Info for manual annotations of cluster A1:

- Start number 11 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster B2:

- Start number 1 was manually annotated 15 times for cluster B2.

Info for manual annotations of cluster B7:

- Start number 2 was manually annotated 1 time for cluster B7.

### **Gene Information:**

Gene: Arbitrator\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for Arbitrator\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (34, 679),

Gene: Boyle\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for Boyle\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (31, 592), (32, 595), (34, 679),

Gene: Brownie5\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for Brownie5\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (31, 592), (32, 595), (34, 679),

Gene: Causa\_2 Start: 428, Stop: 1015, Start Num: 11

Candidate Starts for Causa\_2:

(5, 359), (9, 416), (10, 419), (Start: 11 @428 has 2 MA's), (12, 437), (14, 542), (15, 578), (19, 626), (20, 662), (23, 689), (27, 740), (33, 836), (36, 989),

Gene: Coffee\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for Coffee\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (31, 592), (32, 595), (34, 679),

Gene: Faze9\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for Faze9\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (31, 592), (32, 595), (34, 679),

Gene: FrenchFry\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for FrenchFry\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (31, 592), (32, 595), (34, 679),

Gene: Glass\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for Glass\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (34, 679),

Gene: Hedgerow\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for Hedgerow\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (31, 592), (32, 595), (34, 679),

Gene: Lars\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for Lars\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (34, 679),

Gene: LizLemon\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for LizLemon\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (34, 679),

Gene: Qyrzula\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for Qyrzula\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (34, 679),

Gene: Rhinoforte\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for Rhinoforte\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (34, 679),

Gene: Rosebush\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for Rosebush\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (31, 592), (32, 595), (34, 679),

Gene: Saguaro\_1 Start: 1, Stop: 735, Start Num: 2

Candidate Starts for Saguaro\_1:

(Start: 2 @1 has 1 MA's), (4, 28), (7, 79), (13, 187), (15, 265), (20, 349), (21, 358), (22, 364), (23, 376), (24, 391), (25, 394), (28, 445), (32, 517), (35, 625), (37, 700),

Gene: StAugustine\_2 Start: 428, Stop: 1015, Start Num: 11

Candidate Starts for StAugustine\_2:

(5, 359), (9, 416), (10, 419), (Start: 11 @428 has 2 MA's), (12, 437), (14, 542), (15, 578), (19, 626), (20, 662), (23, 689), (27, 740), (33, 836), (36, 989),

Gene: Tincidunt\_solum\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for Tincidunt\_solum\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (31, 592), (32, 595), (34, 679),

Gene: West99\_1 Start: 1, Stop: 792, Start Num: 1

Candidate Starts for West99\_1:

(Start: 1 @1 has 15 MA's), (3, 76), (6, 133), (8, 172), (9, 181), (12, 202), (15, 343), (16, 346), (17, 367), (18, 373), (20, 421), (22, 436), (24, 463), (26, 469), (29, 583), (30, 589), (31, 592), (32, 595), (34, 679),