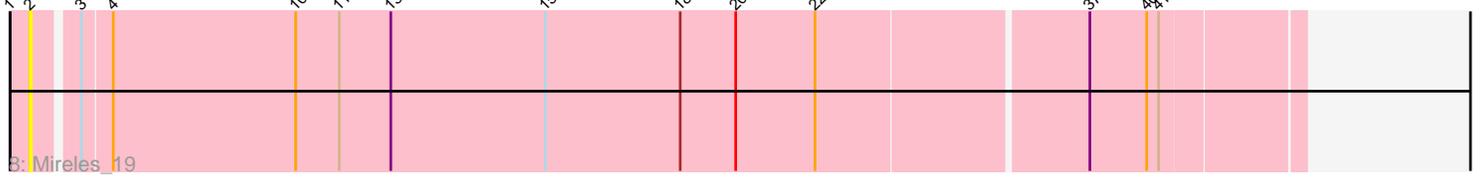
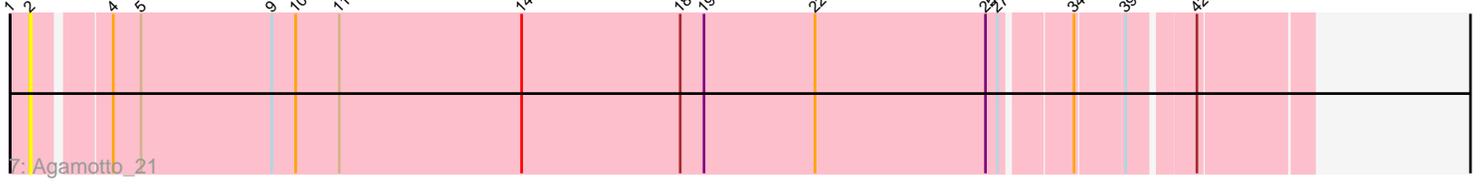
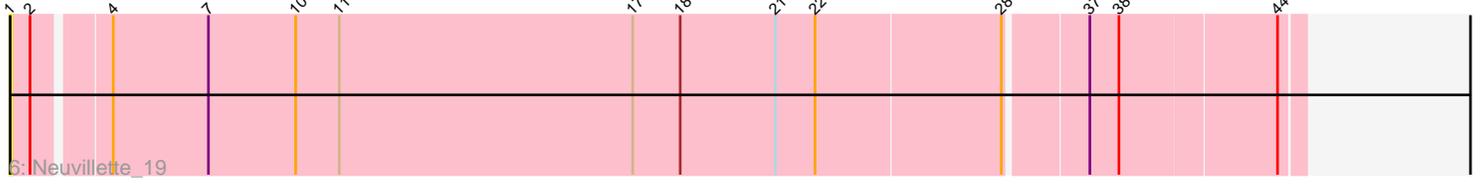
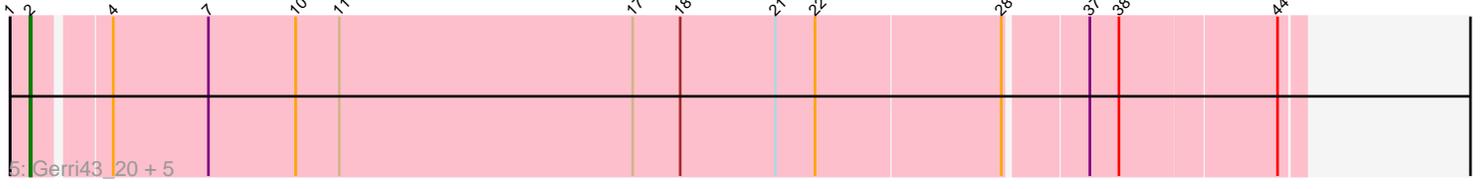
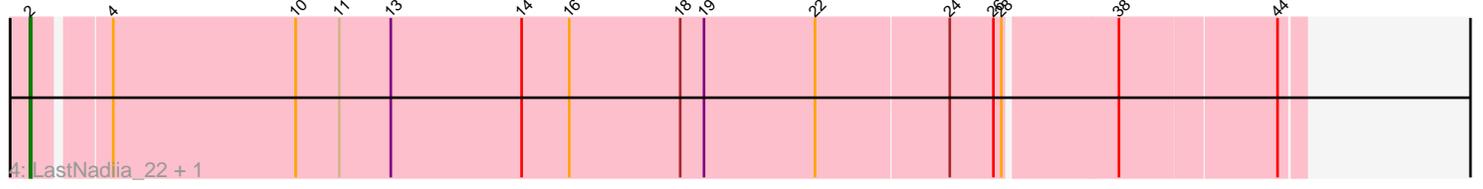
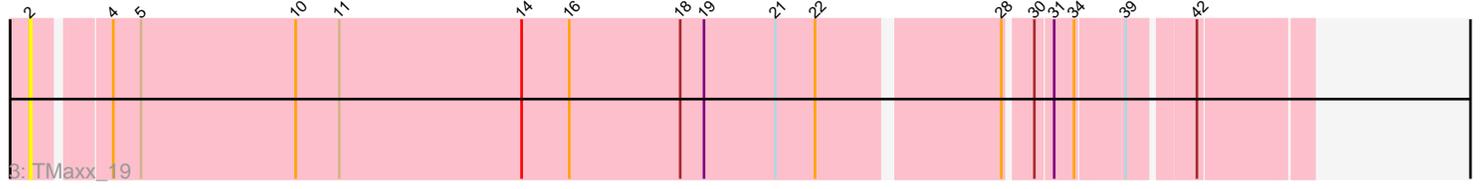
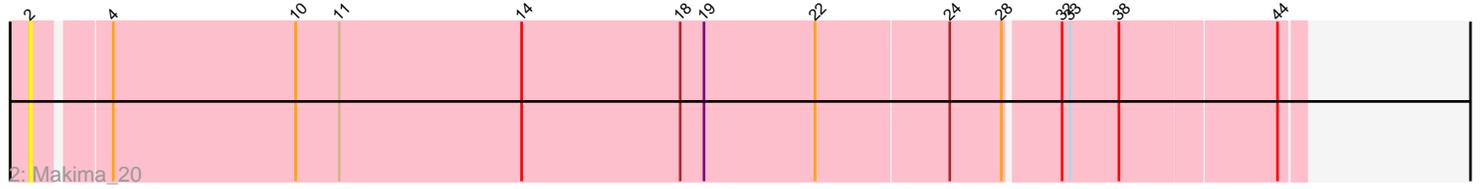
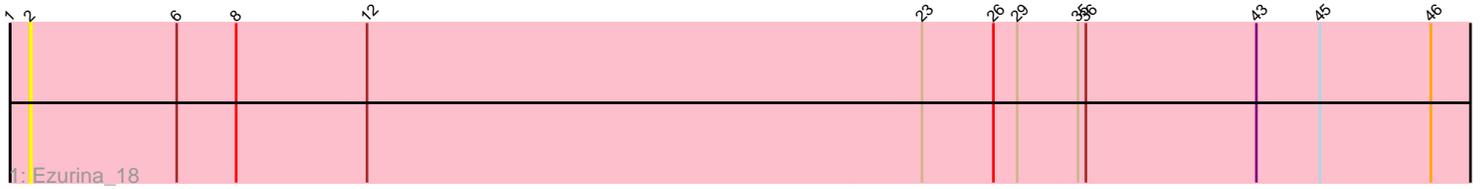


Pham 284299



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 284299 Report

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

Pham number 284299 has 14 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Ezurina\_18
- Track 2 : Makima\_20
- Track 3 : TMaxx\_19
- Track 4 : LastNadiia\_22, Audell\_22
- Track 5 : Gerri43\_20, ChipsNGuac\_20, AnnabelLee\_19, Roberts\_19, ChamoyPickle\_20, CardboardBox\_20
- Track 6 : Neuville\_19
- Track 7 : Agamoto\_21
- Track 8 : Mireles\_19

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

The start number called the most often in the published annotations is 2, it was called in 2 of the 2 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agamoto\_21, AnnabelLee\_19, Audell\_22, CardboardBox\_20, ChamoyPickle\_20, ChipsNGuac\_20, Ezurina\_18, Gerri43\_20, LastNadiia\_22, Makima\_20, Mireles\_19, Roberts\_19, TMaxx\_19,

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

- Neuville\_19,

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

- 

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

Start 1:

- Found in 10 of 14 ( 71.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Neuville\_19 (FR),

#### Start 2:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 2 of 2
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Agamoto\_21 (FR), AnnabelLee\_19 (FR), Audell\_22 (FR), CardboardBox\_20 (FR), ChamoyPickle\_20 (FR), ChipsNGuac\_20 (FR), Ezurina\_18 (FR), Gerri43\_20 (FR), LastNadiia\_22 (FR), Makima\_20 (FR), Mireles\_19 (FR), Roberts\_19 (FR), TMaxx\_19 (FR),

#### Summary by clusters:

There is one cluster represented in this pham: FR

Info for manual annotations of cluster FR:

- Start number 2 was manually annotated 2 times for cluster FR.

#### Gene Information:

Gene: Agamoto\_21 Start: 15857, Stop: 16783, Start Num: 2

Candidate Starts for Agamoto\_21:

(1, 15842), (Start: 2 @15857 has 2 MA's), (4, 15908), (5, 15929), (9, 16028), (10, 16046), (11, 16079), (14, 16217), (18, 16337), (19, 16355), (22, 16439), (25, 16568), (27, 16577), (34, 16625), (39, 16658), (42, 16703),

Gene: AnnabelLee\_19 Start: 12817, Stop: 13746, Start Num: 2

Candidate Starts for AnnabelLee\_19:

(1, 12802), (Start: 2 @12817 has 2 MA's), (4, 12868), (7, 12940), (10, 13006), (11, 13039), (17, 13261), (18, 13297), (21, 13369), (22, 13399), (28, 13537), (37, 13594), (38, 13615), (44, 13729),

Gene: Audell\_22 Start: 16138, Stop: 17070, Start Num: 2

Candidate Starts for Audell\_22:

(Start: 2 @16138 has 2 MA's), (4, 16189), (10, 16327), (11, 16360), (13, 16399), (14, 16498), (16, 16534), (18, 16618), (19, 16636), (22, 16720), (24, 16819), (26, 16852), (28, 16858), (38, 16939), (44, 17053),

Gene: CardboardBox\_20 Start: 12817, Stop: 13746, Start Num: 2

Candidate Starts for CardboardBox\_20:

(1, 12802), (Start: 2 @12817 has 2 MA's), (4, 12868), (7, 12940), (10, 13006), (11, 13039), (17, 13261), (18, 13297), (21, 13369), (22, 13399), (28, 13537), (37, 13594), (38, 13615), (44, 13729),

Gene: ChamoyPickle\_20 Start: 12817, Stop: 13746, Start Num: 2

Candidate Starts for ChamoyPickle\_20:

(1, 12802), (Start: 2 @12817 has 2 MA's), (4, 12868), (7, 12940), (10, 13006), (11, 13039), (17, 13261), (18, 13297), (21, 13369), (22, 13399), (28, 13537), (37, 13594), (38, 13615), (44, 13729),

Gene: ChipsNGuac\_20 Start: 12817, Stop: 13746, Start Num: 2

Candidate Starts for ChipsNGuac\_20:

(1, 12802), (Start: 2 @12817 has 2 MA's), (4, 12868), (7, 12940), (10, 13006), (11, 13039), (17, 13261), (18, 13297), (21, 13369), (22, 13399), (28, 13537), (37, 13594), (38, 13615), (44, 13729),

Gene: Ezurina\_18 Start: 12389, Stop: 13480, Start Num: 2

Candidate Starts for Ezurina\_18:

(1, 12374), (Start: 2 @12389 has 2 MA's), (6, 12500), (8, 12545), (12, 12644), (23, 13061), (26, 13115), (29, 13133), (35, 13178), (36, 13184), (43, 13313), (45, 13361), (46, 13445),

Gene: Gerri43\_20 Start: 12817, Stop: 13746, Start Num: 2

Candidate Starts for Gerri43\_20:

(1, 12802), (Start: 2 @12817 has 2 MA's), (4, 12868), (7, 12940), (10, 13006), (11, 13039), (17, 13261), (18, 13297), (21, 13369), (22, 13399), (28, 13537), (37, 13594), (38, 13615), (44, 13729),

Gene: LastNadiia\_22 Start: 15090, Stop: 16022, Start Num: 2

Candidate Starts for LastNadiia\_22:

(Start: 2 @15090 has 2 MA's), (4, 15141), (10, 15279), (11, 15312), (13, 15351), (14, 15450), (16, 15486), (18, 15570), (19, 15588), (22, 15672), (24, 15771), (26, 15804), (28, 15810), (38, 15891), (44, 16005),

Gene: Makima\_20 Start: 14173, Stop: 15105, Start Num: 2

Candidate Starts for Makima\_20:

(Start: 2 @14173 has 2 MA's), (4, 14224), (10, 14362), (11, 14395), (14, 14533), (18, 14653), (19, 14671), (22, 14755), (24, 14854), (28, 14893), (32, 14932), (33, 14938), (38, 14974), (44, 15088),

Gene: Mireles\_19 Start: 12581, Stop: 13513, Start Num: 2

Candidate Starts for Mireles\_19:

(1, 12566), (Start: 2 @12581 has 2 MA's), (3, 12611), (4, 12632), (10, 12770), (11, 12803), (13, 12842), (15, 12959), (18, 13061), (20, 13103), (22, 13163), (37, 13361), (40, 13403), (41, 13412),

Gene: Neuville\_19 Start: 12802, Stop: 13746, Start Num: 1

Candidate Starts for Neuville\_19:

(1, 12802), (Start: 2 @12817 has 2 MA's), (4, 12868), (7, 12940), (10, 13006), (11, 13039), (17, 13261), (18, 13297), (21, 13369), (22, 13399), (28, 13537), (37, 13594), (38, 13615), (44, 13729),

Gene: Roberts\_19 Start: 12817, Stop: 13746, Start Num: 2

Candidate Starts for Roberts\_19:

(1, 12802), (Start: 2 @12817 has 2 MA's), (4, 12868), (7, 12940), (10, 13006), (11, 13039), (17, 13261), (18, 13297), (21, 13369), (22, 13399), (28, 13537), (37, 13594), (38, 13615), (44, 13729),

Gene: TMaxx\_19 Start: 12677, Stop: 13591, Start Num: 2

Candidate Starts for TMaxx\_19:

(Start: 2 @12677 has 2 MA's), (4, 12728), (5, 12749), (10, 12866), (11, 12899), (14, 13037), (16, 13073), (18, 13157), (19, 13175), (21, 13229), (22, 13259), (28, 13388), (30, 13406), (31, 13418), (34, 13433), (39, 13466), (42, 13511),