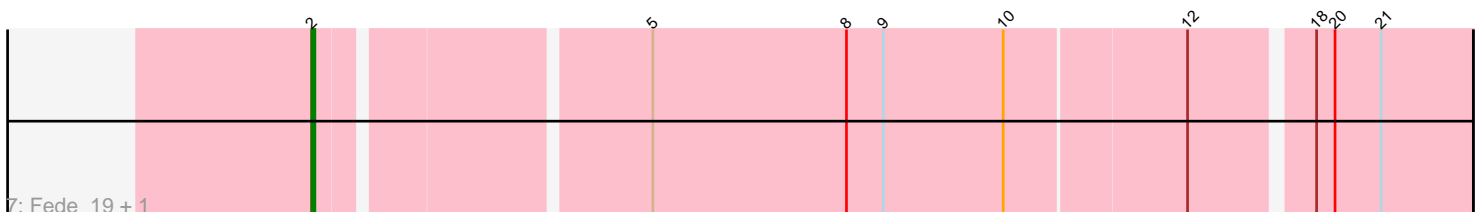
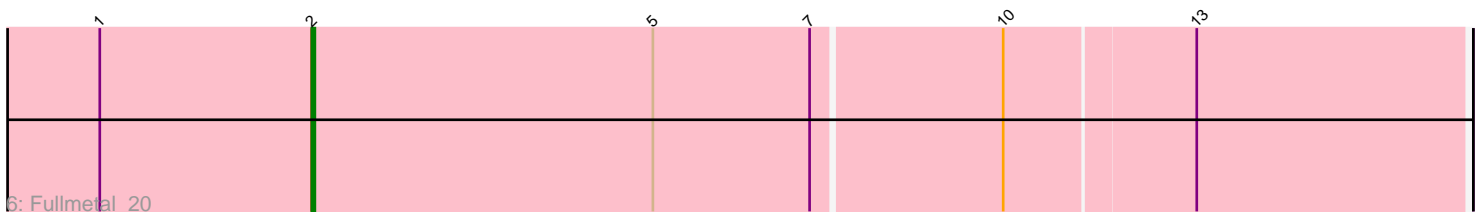
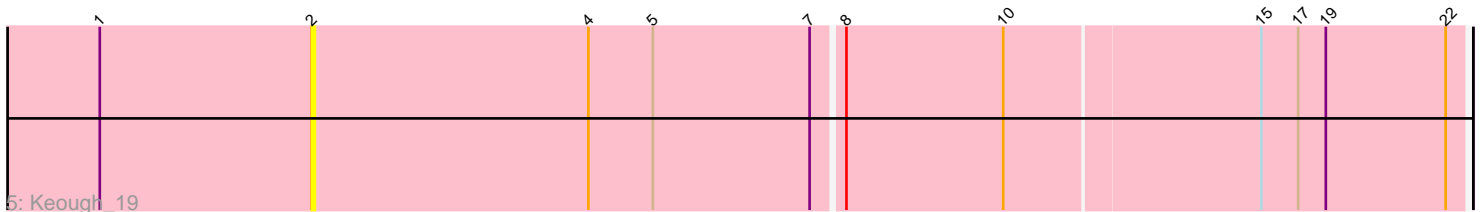
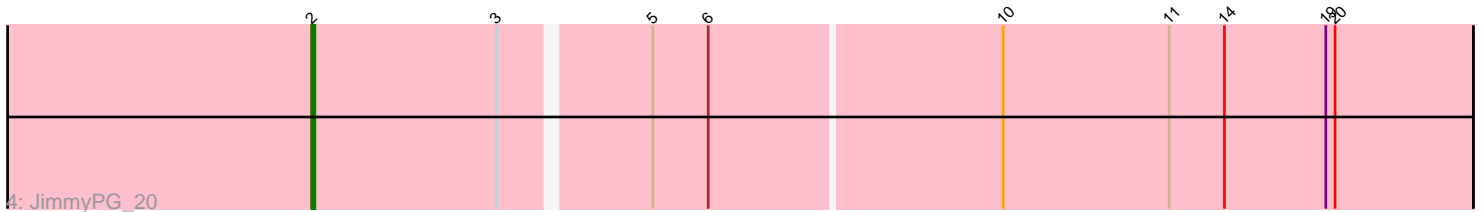
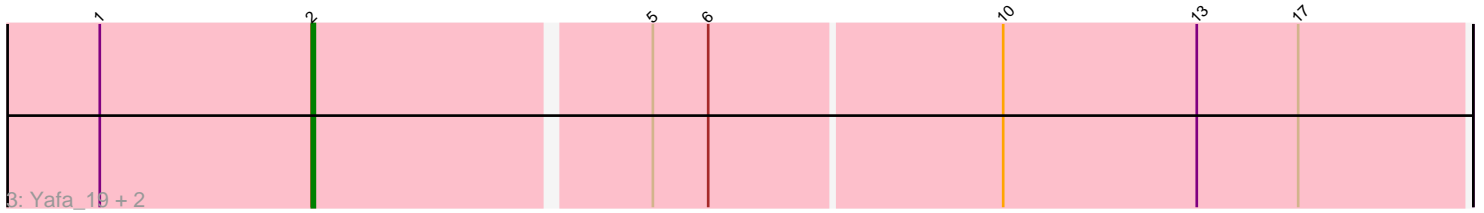
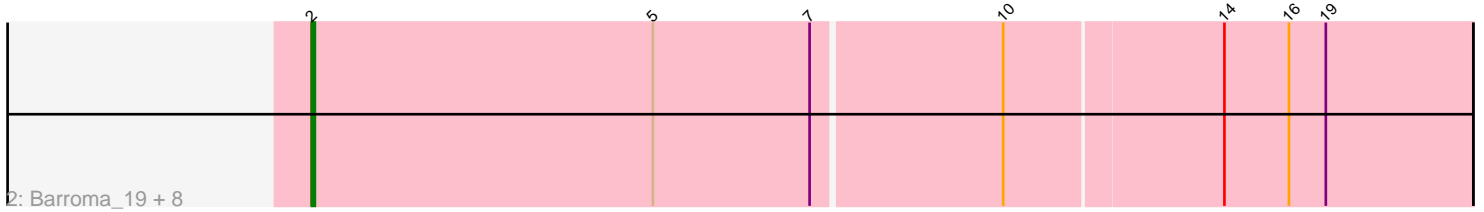
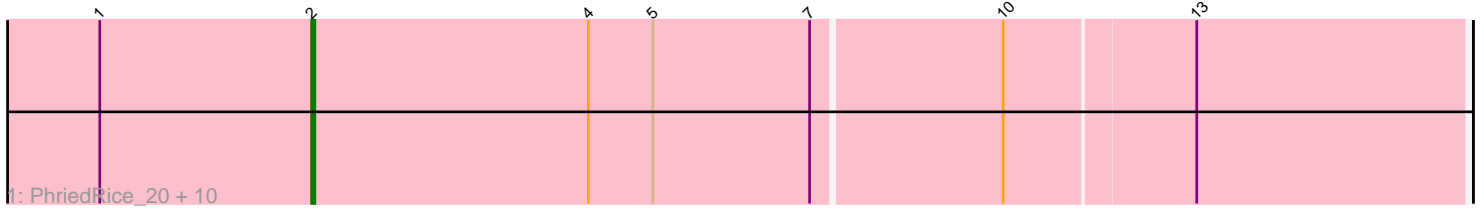


Pham 305237



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 305237 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305237 has 28 members, 5 are drafts.

Phages represented in each track:

- Track 1 : PhriedRice\_20, Moleficient\_20, Astartes\_20, Phracted\_20, Morrill\_19, Pharky\_20, ThirteenKH\_19, RicoCaldo\_20, Mazun\_21, StagePhright\_20, Phedro\_20
- Track 2 : Barroma\_19, JordanFarm\_20, Truong\_20, ShyRosie\_20, Ashton\_20, SoilSleuth\_20, AloeVera\_20, Waterlily\_20, Akoni\_20
- Track 3 : Yafa\_19, Atraxi\_19, TrippleS\_19
- Track 4 : JimmyPG\_20
- Track 5 : Keough\_19
- Track 6 : Fullmetal\_20
- Track 7 : Fede\_19, Kosier\_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 23 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akoni\_20, AloeVera\_20, Ashton\_20, Astartes\_20, Atraxi\_19, Barroma\_19, Fede\_19, Fullmetal\_20, JimmyPG\_20, JordanFarm\_20, Keough\_19, Kosier\_19, Mazun\_21, Moleficient\_20, Morrill\_19, Pharky\_20, Phedro\_20, Phracted\_20, PhriedRice\_20, RicoCaldo\_20, ShyRosie\_20, SoilSleuth\_20, StagePhright\_20, ThirteenKH\_19, TrippleS\_19, Truong\_20, Waterlily\_20, Yafa\_19,

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

- 

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

- 

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

Start 2:

- Found in 28 of 28 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 23 of 23
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Akoni\_20 (EK2), AloeVera\_20 (EK2), Ashton\_20 (EK2), Astartes\_20 (EK2), Atraxi\_19 (EK2), Barroma\_19 (EK2), Fede\_19 (EK2), Fullmetal\_20 (EK2), JimmyPG\_20 (EK2), JordanFarm\_20 (EK2), Keough\_19 (EK2), Kosier\_19 (EK2), Mazun\_21 (EK2), Moleficent\_20 (EK2), Morrill\_19 (EK2), Pharky\_20 (EK2), Phedro\_20 (EK2), Phracted\_20 (EK2), PhriedRice\_20 (EK2), RicoCaldo\_20 (EK2), ShyRosie\_20 (EK2), SoilSteuth\_20 (EK2), StagePhright\_20 (EK2), ThirteenKH\_19 (EK2), TrippleS\_19 (EK2), Truong\_20 (EK2), Waterlily\_20 (EK2), Yafa\_19 (EK2),

### **Summary by clusters:**

There is one cluster represented in this pham: EK2

Info for manual annotations of cluster EK2:

•Start number 2 was manually annotated 23 times for cluster EK2.

### **Gene Information:**

Gene: Akoni\_20 Start: 13361, Stop: 12990, Start Num: 2

Candidate Starts for Akoni\_20:

(Start: 2 @13361 has 23 MA's), (5, 13250), (7, 13199), (10, 13139), (14, 13070), (16, 13049), (19, 13037),

Gene: AloeVera\_20 Start: 13361, Stop: 12990, Start Num: 2

Candidate Starts for AloeVera\_20:

(Start: 2 @13361 has 23 MA's), (5, 13250), (7, 13199), (10, 13139), (14, 13070), (16, 13049), (19, 13037),

Gene: Ashton\_20 Start: 13365, Stop: 12994, Start Num: 2

Candidate Starts for Ashton\_20:

(Start: 2 @13365 has 23 MA's), (5, 13254), (7, 13203), (10, 13143), (14, 13074), (16, 13053), (19, 13041),

Gene: Astartes\_20 Start: 13448, Stop: 13080, Start Num: 2

Candidate Starts for Astartes\_20:

(1, 13517), (Start: 2 @13448 has 23 MA's), (4, 13358), (5, 13337), (7, 13286), (10, 13226), (13, 13166),

Gene: Atraxi\_19 Start: 13201, Stop: 12836, Start Num: 2

Candidate Starts for Atraxi\_19:

(1, 13270), (Start: 2 @13201 has 23 MA's), (5, 13096), (6, 13078), (10, 12985), (13, 12922), (17, 12889),

Gene: Barroma\_19 Start: 13361, Stop: 12990, Start Num: 2

Candidate Starts for Barroma\_19:

(Start: 2 @13361 has 23 MA's), (5, 13250), (7, 13199), (10, 13139), (14, 13070), (16, 13049), (19, 13037),

Gene: Fede\_19 Start: 12583, Stop: 12227, Start Num: 2

Candidate Starts for Fede\_19:

(Start: 2 @12583 has 23 MA's), (5, 12484), (8, 12421), (9, 12409), (10, 12370), (12, 12313), (18, 12277), (20, 12271), (21, 12256),

Gene: Fullmetal\_20 Start: 13446, Stop: 13078, Start Num: 2

Candidate Starts for Fullmetal\_20:

(1, 13515), (Start: 2 @13446 has 23 MA's), (5, 13335), (7, 13284), (10, 13224), (13, 13164),

Gene: JimmyPG\_20 Start: 13597, Stop: 13229, Start Num: 2

Candidate Starts for JimmyPG\_20:

(Start: 2 @13597 has 23 MA's), (3, 13537), (5, 13492), (6, 13474), (10, 13381), (11, 13327), (14, 13309), (19, 13276), (20, 13273),

Gene: JordanFarm\_20 Start: 13361, Stop: 12990, Start Num: 2

Candidate Starts for JordanFarm\_20:

(Start: 2 @13361 has 23 MA's), (5, 13250), (7, 13199), (10, 13139), (14, 13070), (16, 13049), (19, 13037),

Gene: Keough\_19 Start: 13174, Stop: 12806, Start Num: 2

Candidate Starts for Keough\_19:

(1, 13243), (Start: 2 @13174 has 23 MA's), (4, 13084), (5, 13063), (7, 13012), (8, 13003), (10, 12952), (15, 12871), (17, 12859), (19, 12850), (22, 12811),

Gene: Kosier\_19 Start: 12583, Stop: 12227, Start Num: 2

Candidate Starts for Kosier\_19:

(Start: 2 @12583 has 23 MA's), (5, 12484), (8, 12421), (9, 12409), (10, 12370), (12, 12313), (18, 12277), (20, 12271), (21, 12256),

Gene: Mazun\_21 Start: 13633, Stop: 13265, Start Num: 2

Candidate Starts for Mazun\_21:

(1, 13702), (Start: 2 @13633 has 23 MA's), (4, 13543), (5, 13522), (7, 13471), (10, 13411), (13, 13351),

Gene: Moleficient\_20 Start: 13443, Stop: 13075, Start Num: 2

Candidate Starts for Moleficient\_20:

(1, 13512), (Start: 2 @13443 has 23 MA's), (4, 13353), (5, 13332), (7, 13281), (10, 13221), (13, 13161),

Gene: Morrill\_19 Start: 13184, Stop: 12816, Start Num: 2

Candidate Starts for Morrill\_19:

(1, 13253), (Start: 2 @13184 has 23 MA's), (4, 13094), (5, 13073), (7, 13022), (10, 12962), (13, 12902),

Gene: Pharky\_20 Start: 13406, Stop: 13038, Start Num: 2

Candidate Starts for Pharky\_20:

(1, 13475), (Start: 2 @13406 has 23 MA's), (4, 13316), (5, 13295), (7, 13244), (10, 13184), (13, 13124),

Gene: Phedro\_20 Start: 13406, Stop: 13038, Start Num: 2

Candidate Starts for Phedro\_20:

(1, 13475), (Start: 2 @13406 has 23 MA's), (4, 13316), (5, 13295), (7, 13244), (10, 13184), (13, 13124),

Gene: Phracted\_20 Start: 13406, Stop: 13038, Start Num: 2

Candidate Starts for Phracted\_20:

(1, 13475), (Start: 2 @13406 has 23 MA's), (4, 13316), (5, 13295), (7, 13244), (10, 13184), (13, 13124),

Gene: PhriedRice\_20 Start: 13417, Stop: 13049, Start Num: 2

Candidate Starts for PhriedRice\_20:

(1, 13486), (Start: 2 @13417 has 23 MA's), (4, 13327), (5, 13306), (7, 13255), (10, 13195), (13, 13135),

Gene: RicoCaldo\_20 Start: 13438, Stop: 13070, Start Num: 2  
Candidate Starts for RicoCaldo\_20:  
(1, 13507), (Start: 2 @13438 has 23 MA's), (4, 13348), (5, 13327), (7, 13276), (10, 13216), (13, 13156),

Gene: ShyRosie\_20 Start: 13361, Stop: 12990, Start Num: 2  
Candidate Starts for ShyRosie\_20:  
(Start: 2 @13361 has 23 MA's), (5, 13250), (7, 13199), (10, 13139), (14, 13070), (16, 13049), (19, 13037),

Gene: SoilSleuth\_20 Start: 13403, Stop: 13032, Start Num: 2  
Candidate Starts for SoilSleuth\_20:  
(Start: 2 @13403 has 23 MA's), (5, 13292), (7, 13241), (10, 13181), (14, 13112), (16, 13091), (19, 13079),

Gene: StagePhright\_20 Start: 13406, Stop: 13038, Start Num: 2  
Candidate Starts for StagePhright\_20:  
(1, 13475), (Start: 2 @13406 has 23 MA's), (4, 13316), (5, 13295), (7, 13244), (10, 13184), (13, 13124),

Gene: ThirteenKH\_19 Start: 13183, Stop: 12815, Start Num: 2  
Candidate Starts for ThirteenKH\_19:  
(1, 13252), (Start: 2 @13183 has 23 MA's), (4, 13093), (5, 13072), (7, 13021), (10, 12961), (13, 12901),

Gene: TrippleS\_19 Start: 13187, Stop: 12822, Start Num: 2  
Candidate Starts for TrippleS\_19:  
(1, 13256), (Start: 2 @13187 has 23 MA's), (5, 13082), (6, 13064), (10, 12971), (13, 12908), (17, 12875),

Gene: Truong\_20 Start: 13361, Stop: 12990, Start Num: 2  
Candidate Starts for Truong\_20:  
(Start: 2 @13361 has 23 MA's), (5, 13250), (7, 13199), (10, 13139), (14, 13070), (16, 13049), (19, 13037),

Gene: Waterlily\_20 Start: 13403, Stop: 13032, Start Num: 2  
Candidate Starts for Waterlily\_20:  
(Start: 2 @13403 has 23 MA's), (5, 13292), (7, 13241), (10, 13181), (14, 13112), (16, 13091), (19, 13079),

Gene: Yafa\_19 Start: 13203, Stop: 12838, Start Num: 2  
Candidate Starts for Yafa\_19:  
(1, 13272), (Start: 2 @13203 has 23 MA's), (5, 13098), (6, 13080), (10, 12987), (13, 12924), (17, 12891),