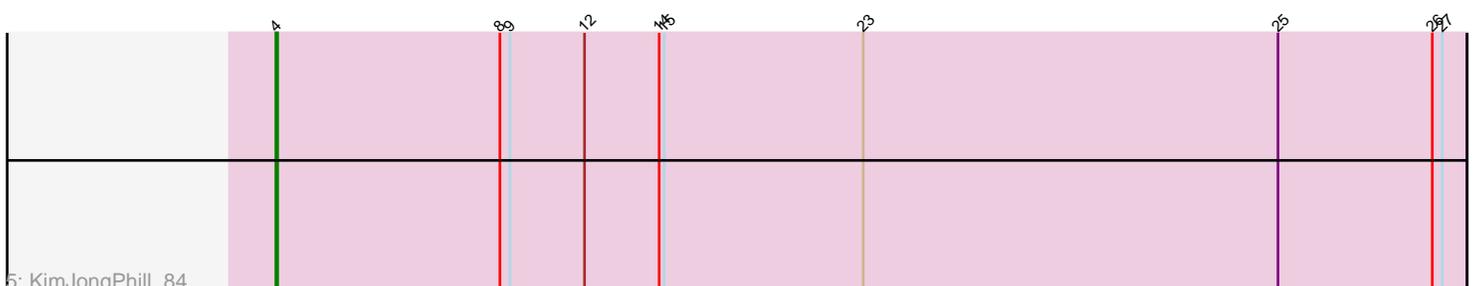
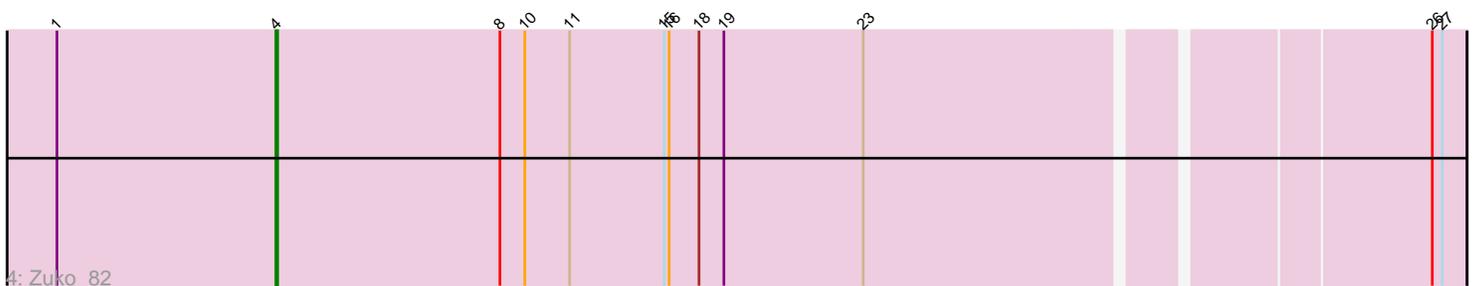
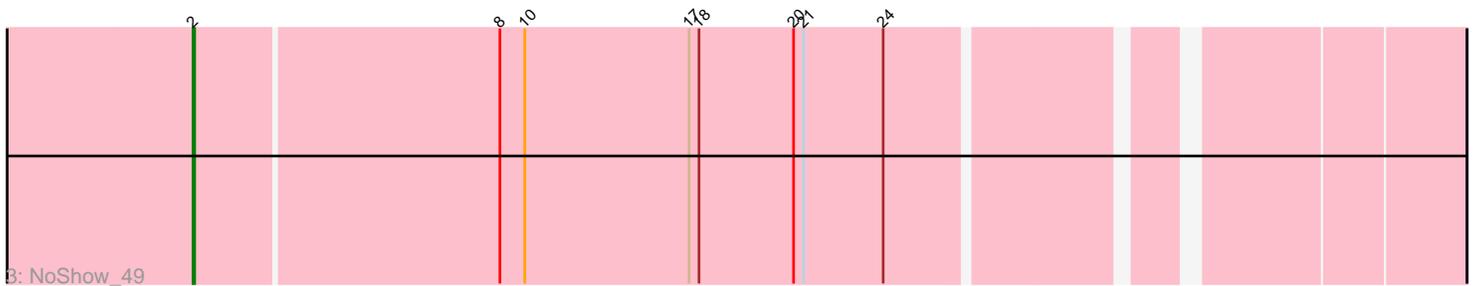
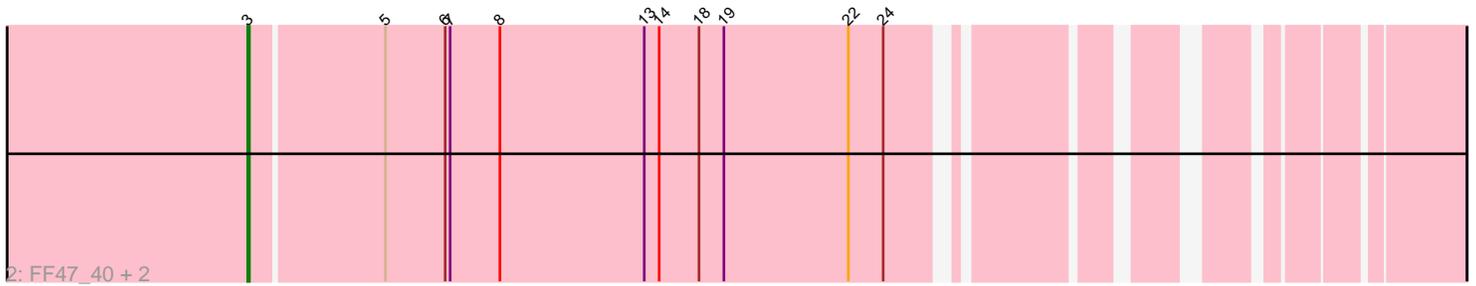
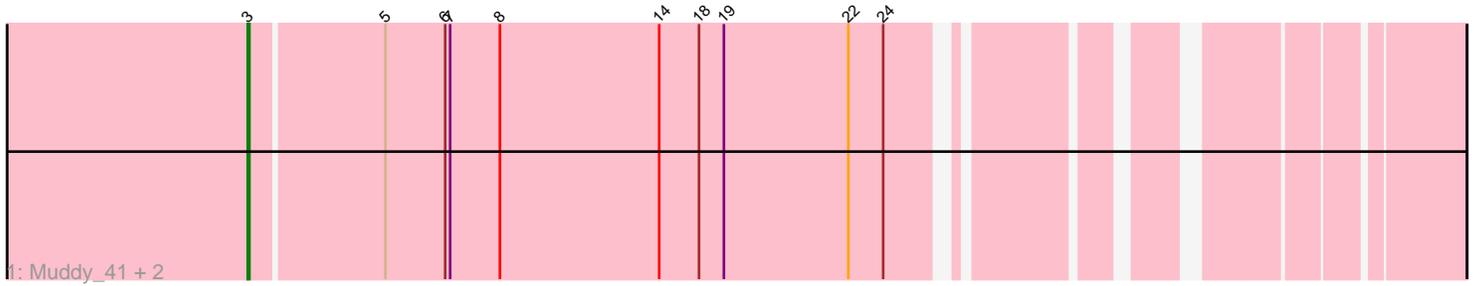


Pham 282731



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 282731 Report

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

Pham number 282731 has 9 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Muddy\_41, Salvus\_42, LongHai\_42
- Track 2 : FF47\_40, 8UZL\_41, Maco6\_39
- Track 3 : NoShow\_49
- Track 4 : Zuko\_82
- Track 5 : KimJongPhill\_84

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

The start number called the most often in the published annotations is 3, it was called in 2 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 8UZL\_41, FF47\_40, LongHai\_42, Maco6\_39, Muddy\_41, Salvus\_42,

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

- 

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

- KimJongPhill\_84, NoShow\_49, Zuko\_82,

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

Start 2:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoShow\_49 (AB),

Start 3:

- Found in 6 of 9 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 2 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 8UZL\_41 (AB), FF47\_40 (AB), LongHai\_42 (AB), Maco6\_39 (AB), Muddy\_41 (AB), Salvus\_42 (AB),

Start 4:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 2 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KimJongPhill\_84 (BR), Zuko\_82 (BR),

### **Summary by clusters:**

There are 2 clusters represented in this pham: AB, BR,

Info for manual annotations of cluster AB:

- Start number 2 was manually annotated 1 time for cluster AB.
- Start number 3 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster BR:

- Start number 4 was manually annotated 2 times for cluster BR.

### **Gene Information:**

Gene: 8UZL\_41 Start: 30093, Stop: 29446, Start Num: 3

Candidate Starts for 8UZL\_41:

(Start: 3 @30093 has 2 MA's), (5, 30015), (6, 29979), (7, 29976), (8, 29946), (13, 29859), (14, 29850), (18, 29826), (19, 29811), (22, 29736), (24, 29715),

Gene: FF47\_40 Start: 30004, Stop: 29357, Start Num: 3

Candidate Starts for FF47\_40:

(Start: 3 @30004 has 2 MA's), (5, 29926), (6, 29890), (7, 29887), (8, 29857), (13, 29770), (14, 29761), (18, 29737), (19, 29722), (22, 29647), (24, 29626),

Gene: KimJongPhill\_84 Start: 62747, Stop: 63463, Start Num: 4

Candidate Starts for KimJongPhill\_84:

(Start: 4 @62747 has 2 MA's), (8, 62882), (9, 62888), (12, 62933), (14, 62978), (15, 62981), (23, 63101), (25, 63350), (26, 63443), (27, 63449),

Gene: LongHai\_42 Start: 30402, Stop: 29746, Start Num: 3

Candidate Starts for LongHai\_42:

(Start: 3 @30402 has 2 MA's), (5, 30324), (6, 30288), (7, 30285), (8, 30255), (14, 30159), (18, 30135), (19, 30120), (22, 30045), (24, 30024),

Gene: Maco6\_39 Start: 29344, Stop: 28697, Start Num: 3

Candidate Starts for Maco6\_39:

(Start: 3 @29344 has 2 MA's), (5, 29266), (6, 29230), (7, 29227), (8, 29197), (13, 29110), (14, 29101), (18, 29077), (19, 29062), (22, 28987), (24, 28966),

Gene: Muddy\_41 Start: 30576, Stop: 29920, Start Num: 3

Candidate Starts for Muddy\_41:

(Start: 3 @30576 has 2 MA's), (5, 30498), (6, 30462), (7, 30459), (8, 30429), (14, 30333), (18, 30309), (19, 30294), (22, 30219), (24, 30198),

Gene: NoShow\_49 Start: 33469, Stop: 32750, Start Num: 2

Candidate Starts for NoShow\_49:

(Start: 2 @33469 has 1 MA's), (8, 33289), (10, 33274), (17, 33175), (18, 33169), (20, 33112), (21, 33106), (24, 33058),

Gene: Salvus\_42 Start: 30402, Stop: 29746, Start Num: 3

Candidate Starts for Salvus\_42:

(Start: 3 @30402 has 2 MA's), (5, 30324), (6, 30288), (7, 30285), (8, 30255), (14, 30159), (18, 30135), (19, 30120), (22, 30045), (24, 30024),

Gene: Zuko\_82 Start: 62610, Stop: 63302, Start Num: 4

Candidate Starts for Zuko\_82:

(1, 62478), (Start: 4 @62610 has 2 MA's), (8, 62745), (10, 62760), (11, 62787), (15, 62844), (16, 62847), (18, 62865), (19, 62880), (23, 62964), (26, 63282), (27, 63288),