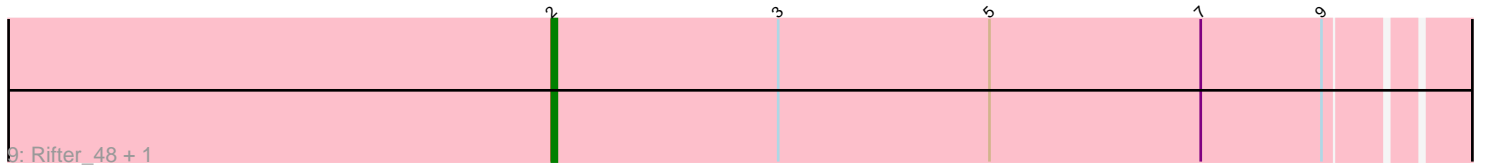
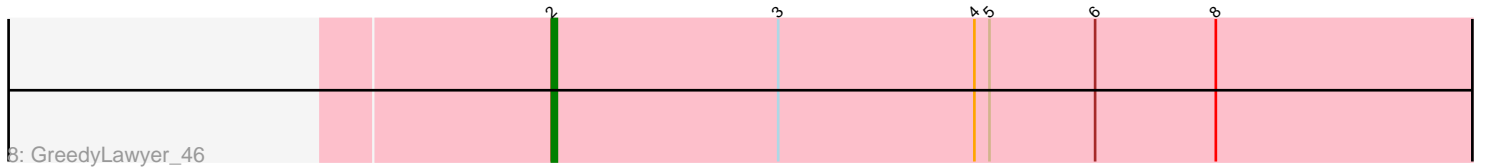
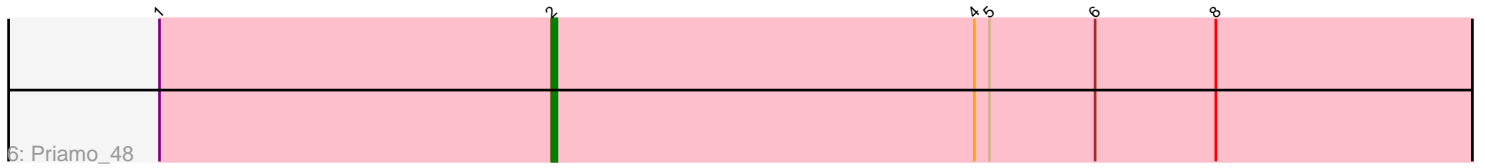
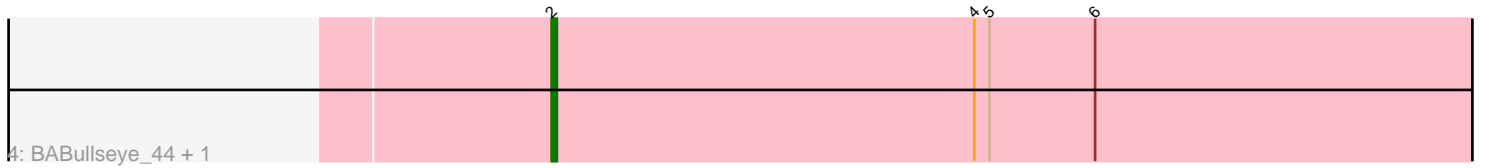
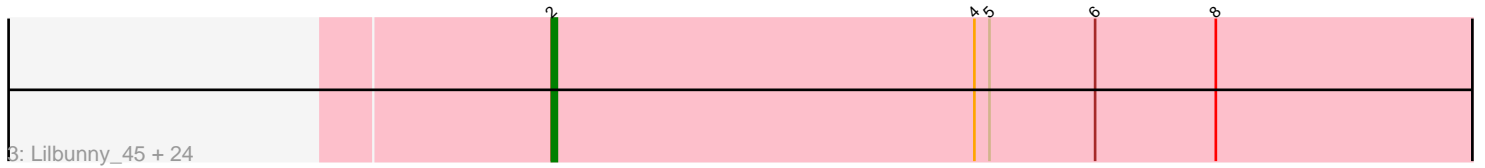
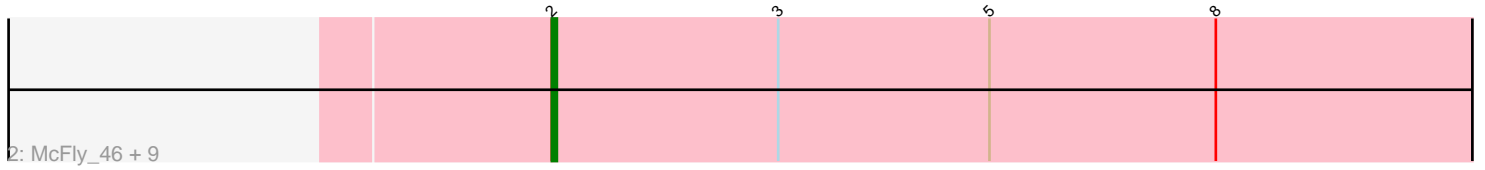
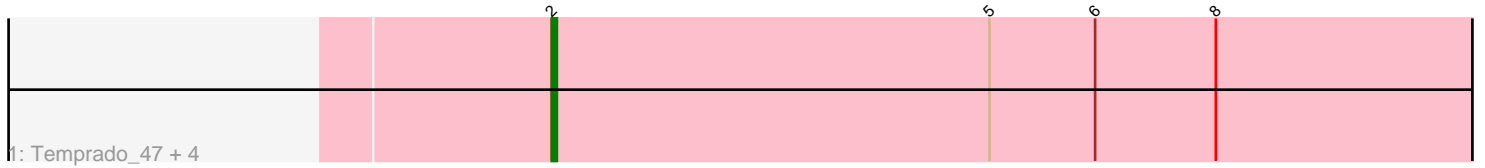


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 296676 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296676 has 48 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Temprado\_47, Indra\_49, Helmet\_48, Garak\_48, Polyphemus\_47
- Track 2 : McFly\_46, Kazan\_47, BennyP\_47, Dorothea\_46, EricB\_46, SmellyB\_46, Hoot\_46, VohminGhazi\_46, Candra\_46, Kipper29\_46
- Track 3 : Lilbunny\_45, Zaka\_46, Artemis2UCLA\_46, ToneTone\_43, Isiphiwo\_44, Tucker\_47, Roksolana\_47, DaVinci\_46, Wiks\_45, Pmask\_46, Chartreuse\_46, Hexamo\_46, Yokurt\_46, WunderPhul\_46, Jeffabunny\_46, Neeharika16\_46, JewelBug\_48, BlessJoy\_47, Jordennis\_46, SuperAwesome\_46, Zulu\_47, CloudWang3\_46, Cookiedough\_46, Newrala\_46, Gruunaga\_46
- Track 4 : BABullseye\_44, Blinn1\_49
- Track 5 : Koko\_48
- Track 6 : Priamo\_48
- Track 7 : Hammer\_48
- Track 8 : GreedyLawyer\_46
- Track 9 : Rifter\_48, Blue7\_49

### ***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 45 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artemis2UCLA\_46, BABullseye\_44, BennyP\_47, BlessJoy\_47, Blinn1\_49, Blue7\_49, Candra\_46, Chartreuse\_46, CloudWang3\_46, Cookiedough\_46, DaVinci\_46, Dorothea\_46, EricB\_46, Garak\_48, GreedyLawyer\_46, Gruunaga\_46, Hammer\_48, Helmet\_48, Hexamo\_46, Hoot\_46, Indra\_49, Isiphiwo\_44, Jeffabunny\_46, JewelBug\_48, Jordennis\_46, Kazan\_47, Kipper29\_46, Koko\_48, Lilbunny\_45, McFly\_46, Neeharika16\_46, Newrala\_46, Pmask\_46, Polyphemus\_47, Priamo\_48, Rifter\_48, Roksolana\_47, SmellyB\_46, SuperAwesome\_46, Temprado\_47, ToneTone\_43, Tucker\_47, VohminGhazi\_46, Wiks\_45, WunderPhul\_46, Yokurt\_46, Zaka\_46, Zulu\_47,

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 48 of 48 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 45 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA\_46 (A6), BABullseye\_44 (A6), BennyP\_47 (A6), BlessJoy\_47 (A6), Blinn1\_49 (A6), Blue7\_49 (A6), Candra\_46 (A6), Chartreuse\_46 (A6), CloudWang3\_46 (A6), Cookiedough\_46 (A6), DaVinci\_46 (A6), Dorothea\_46 (A6), EricB\_46 (A6), Garak\_48 (A6), GreedyLawyer\_46 (A6), Gruunaga\_46 (A6), Hammer\_48 (A6), Helmet\_48 (A6), Hexamo\_46 (A6), Hoot\_46 (A6), Indra\_49 (A6), Isiphiwo\_44 (A6), Jeffabunny\_46 (A6), JewelBug\_48 (A6), Jordennis\_46 (A6), Kazan\_47 (A6), Kipper29\_46 (A6), Koko\_48 (A6), Lilbunny\_45 (A6), McFly\_46 (A6), Neeharika16\_46 (A6), Newrala\_46 (A6), Pmask\_46 (A6), Polyphemus\_47 (A6), Priamo\_48 (A6), Rifter\_48 (A6), Roksolana\_47 (A6), SmellyB\_46 (A6), SuperAwesome\_46 (A6), Temprado\_47 (A6), ToneTone\_43 (A6), Tucker\_47 (A6), VohminGhazi\_46 (A6), Wiks\_45 (A6), WunderPhul\_46 (A6), Yokurt\_46 (A6), Zaka\_46 (A6), Zulu\_47 (A6),

### Summary by clusters:

There is one cluster represented in this pham: A6

Info for manual annotations of cluster A6:

- Start number 2 was manually annotated 45 times for cluster A6.

### Gene Information:

Gene: Artemis2UCLA\_46 Start: 29520, Stop: 29332, Start Num: 2

Candidate Starts for Artemis2UCLA\_46:

(Start: 2 @29520 has 45 MA's), (4, 29436), (5, 29433), (6, 29412), (8, 29388),

Gene: BABullseye\_44 Start: 29366, Stop: 29178, Start Num: 2

Candidate Starts for BABullseye\_44:

(Start: 2 @29366 has 45 MA's), (4, 29282), (5, 29279), (6, 29258),

Gene: BennyP\_47 Start: 29968, Stop: 29780, Start Num: 2

Candidate Starts for BennyP\_47:

(Start: 2 @29968 has 45 MA's), (3, 29923), (5, 29881), (8, 29836),

Gene: BlessJoy\_47 Start: 29981, Stop: 29793, Start Num: 2

Candidate Starts for BlessJoy\_47:

(Start: 2 @29981 has 45 MA's), (4, 29897), (5, 29894), (6, 29873), (8, 29849),

Gene: Blinn1\_49 Start: 30331, Stop: 30152, Start Num: 2

Candidate Starts for Blinn1\_49:

(Start: 2 @30331 has 45 MA's), (4, 30247), (5, 30244), (6, 30223),

Gene: Blue7\_49 Start: 30167, Stop: 29988, Start Num: 2  
Candidate Starts for Blue7\_49:  
(Start: 2 @30167 has 45 MA's), (3, 30122), (5, 30080), (7, 30038), (9, 30014),

Gene: Candra\_46 Start: 29859, Stop: 29671, Start Num: 2  
Candidate Starts for Candra\_46:  
(Start: 2 @29859 has 45 MA's), (3, 29814), (5, 29772), (8, 29727),

Gene: Chartreuse\_46 Start: 29770, Stop: 29582, Start Num: 2  
Candidate Starts for Chartreuse\_46:  
(Start: 2 @29770 has 45 MA's), (4, 29686), (5, 29683), (6, 29662), (8, 29638),

Gene: CloudWang3\_46 Start: 29620, Stop: 29432, Start Num: 2  
Candidate Starts for CloudWang3\_46:  
(Start: 2 @29620 has 45 MA's), (4, 29536), (5, 29533), (6, 29512), (8, 29488),

Gene: Cookiedough\_46 Start: 29835, Stop: 29647, Start Num: 2  
Candidate Starts for Cookiedough\_46:  
(Start: 2 @29835 has 45 MA's), (4, 29751), (5, 29748), (6, 29727), (8, 29703),

Gene: DaVinci\_46 Start: 29824, Stop: 29636, Start Num: 2  
Candidate Starts for DaVinci\_46:  
(Start: 2 @29824 has 45 MA's), (4, 29740), (5, 29737), (6, 29716), (8, 29692),

Gene: Dorothea\_46 Start: 29842, Stop: 29654, Start Num: 2  
Candidate Starts for Dorothea\_46:  
(Start: 2 @29842 has 45 MA's), (3, 29797), (5, 29755), (8, 29710),

Gene: EricB\_46 Start: 29816, Stop: 29628, Start Num: 2  
Candidate Starts for EricB\_46:  
(Start: 2 @29816 has 45 MA's), (3, 29771), (5, 29729), (8, 29684),

Gene: Garak\_48 Start: 29987, Stop: 29799, Start Num: 2  
Candidate Starts for Garak\_48:  
(Start: 2 @29987 has 45 MA's), (5, 29900), (6, 29879), (8, 29855),

Gene: GreedyLawyer\_46 Start: 29823, Stop: 29635, Start Num: 2  
Candidate Starts for GreedyLawyer\_46:  
(Start: 2 @29823 has 45 MA's), (3, 29778), (4, 29739), (5, 29736), (6, 29715), (8, 29691),

Gene: Gruunaga\_46 Start: 29823, Stop: 29635, Start Num: 2  
Candidate Starts for Gruunaga\_46:  
(Start: 2 @29823 has 45 MA's), (4, 29739), (5, 29736), (6, 29715), (8, 29691),

Gene: Hammer\_48 Start: 29977, Stop: 29798, Start Num: 2  
Candidate Starts for Hammer\_48:  
(Start: 2 @29977 has 45 MA's), (3, 29932), (7, 29848), (9, 29824),

Gene: Helmet\_48 Start: 29987, Stop: 29799, Start Num: 2  
Candidate Starts for Helmet\_48:  
(Start: 2 @29987 has 45 MA's), (5, 29900), (6, 29879), (8, 29855),

Gene: Hexamo\_46 Start: 29608, Stop: 29420, Start Num: 2

Candidate Starts for Hexamo\_46:

(Start: 2 @29608 has 45 MA's), (4, 29524), (5, 29521), (6, 29500), (8, 29476),

Gene: Hoot\_46 Start: 29801, Stop: 29613, Start Num: 2

Candidate Starts for Hoot\_46:

(Start: 2 @29801 has 45 MA's), (3, 29756), (5, 29714), (8, 29669),

Gene: Indra\_49 Start: 29988, Stop: 29800, Start Num: 2

Candidate Starts for Indra\_49:

(Start: 2 @29988 has 45 MA's), (5, 29901), (6, 29880), (8, 29856),

Gene: Isiphiwo\_44 Start: 29360, Stop: 29172, Start Num: 2

Candidate Starts for Isiphiwo\_44:

(Start: 2 @29360 has 45 MA's), (4, 29276), (5, 29273), (6, 29252), (8, 29228),

Gene: Jeffabunny\_46 Start: 29644, Stop: 29456, Start Num: 2

Candidate Starts for Jeffabunny\_46:

(Start: 2 @29644 has 45 MA's), (4, 29560), (5, 29557), (6, 29536), (8, 29512),

Gene: JewelBug\_48 Start: 29992, Stop: 29804, Start Num: 2

Candidate Starts for JewelBug\_48:

(Start: 2 @29992 has 45 MA's), (4, 29908), (5, 29905), (6, 29884), (8, 29860),

Gene: Jordennis\_46 Start: 29831, Stop: 29643, Start Num: 2

Candidate Starts for Jordennis\_46:

(Start: 2 @29831 has 45 MA's), (4, 29747), (5, 29744), (6, 29723), (8, 29699),

Gene: Kazan\_47 Start: 29829, Stop: 29641, Start Num: 2

Candidate Starts for Kazan\_47:

(Start: 2 @29829 has 45 MA's), (3, 29784), (5, 29742), (8, 29697),

Gene: Kipper29\_46 Start: 29842, Stop: 29654, Start Num: 2

Candidate Starts for Kipper29\_46:

(Start: 2 @29842 has 45 MA's), (3, 29797), (5, 29755), (8, 29710),

Gene: Koko\_48 Start: 30516, Stop: 30337, Start Num: 2

Candidate Starts for Koko\_48:

(Start: 2 @30516 has 45 MA's), (3, 30471), (7, 30387), (9, 30363),

Gene: Lilbunny\_45 Start: 29618, Stop: 29430, Start Num: 2

Candidate Starts for Lilbunny\_45:

(Start: 2 @29618 has 45 MA's), (4, 29534), (5, 29531), (6, 29510), (8, 29486),

Gene: McFly\_46 Start: 29823, Stop: 29635, Start Num: 2

Candidate Starts for McFly\_46:

(Start: 2 @29823 has 45 MA's), (3, 29778), (5, 29736), (8, 29691),

Gene: Neeharika16\_46 Start: 29834, Stop: 29646, Start Num: 2

Candidate Starts for Neeharika16\_46:

(Start: 2 @29834 has 45 MA's), (4, 29750), (5, 29747), (6, 29726), (8, 29702),

Gene: Newwrala\_46 Start: 29834, Stop: 29646, Start Num: 2

Candidate Starts for Newwrala\_46:

(Start: 2 @29834 has 45 MA's), (4, 29750), (5, 29747), (6, 29726), (8, 29702),

Gene: Pmask\_46 Start: 29835, Stop: 29647, Start Num: 2

Candidate Starts for Pmask\_46:

(Start: 2 @29835 has 45 MA's), (4, 29751), (5, 29748), (6, 29727), (8, 29703),

Gene: Polyphemus\_47 Start: 29978, Stop: 29790, Start Num: 2

Candidate Starts for Polyphemus\_47:

(Start: 2 @29978 has 45 MA's), (5, 29891), (6, 29870), (8, 29846),

Gene: Priamo\_48 Start: 30135, Stop: 29947, Start Num: 2

Candidate Starts for Priamo\_48:

(1, 30213), (Start: 2 @30135 has 45 MA's), (4, 30051), (5, 30048), (6, 30027), (8, 30003),

Gene: Rifter\_48 Start: 29940, Stop: 29761, Start Num: 2

Candidate Starts for Rifter\_48:

(Start: 2 @29940 has 45 MA's), (3, 29895), (5, 29853), (7, 29811), (9, 29787),

Gene: Roksolana\_47 Start: 29871, Stop: 29683, Start Num: 2

Candidate Starts for Roksolana\_47:

(Start: 2 @29871 has 45 MA's), (4, 29787), (5, 29784), (6, 29763), (8, 29739),

Gene: SmellyB\_46 Start: 29823, Stop: 29635, Start Num: 2

Candidate Starts for SmellyB\_46:

(Start: 2 @29823 has 45 MA's), (3, 29778), (5, 29736), (8, 29691),

Gene: SuperAwesome\_46 Start: 29834, Stop: 29646, Start Num: 2

Candidate Starts for SuperAwesome\_46:

(Start: 2 @29834 has 45 MA's), (4, 29750), (5, 29747), (6, 29726), (8, 29702),

Gene: Temprado\_47 Start: 29987, Stop: 29799, Start Num: 2

Candidate Starts for Temprado\_47:

(Start: 2 @29987 has 45 MA's), (5, 29900), (6, 29879), (8, 29855),

Gene: ToneTone\_43 Start: 29550, Stop: 29362, Start Num: 2

Candidate Starts for ToneTone\_43:

(Start: 2 @29550 has 45 MA's), (4, 29466), (5, 29463), (6, 29442), (8, 29418),

Gene: Tucker\_47 Start: 29988, Stop: 29800, Start Num: 2

Candidate Starts for Tucker\_47:

(Start: 2 @29988 has 45 MA's), (4, 29904), (5, 29901), (6, 29880), (8, 29856),

Gene: VohminGhazi\_46 Start: 29824, Stop: 29636, Start Num: 2

Candidate Starts for VohminGhazi\_46:

(Start: 2 @29824 has 45 MA's), (3, 29779), (5, 29737), (8, 29692),

Gene: Wiks\_45 Start: 29618, Stop: 29430, Start Num: 2

Candidate Starts for Wiks\_45:

(Start: 2 @29618 has 45 MA's), (4, 29534), (5, 29531), (6, 29510), (8, 29486),

Gene: WunderPhul\_46 Start: 29616, Stop: 29428, Start Num: 2

Candidate Starts for WunderPhul\_46:

(Start: 2 @29616 has 45 MA's), (4, 29532), (5, 29529), (6, 29508), (8, 29484),

Gene: Yokurt\_46 Start: 29618, Stop: 29430, Start Num: 2

Candidate Starts for Yokurt\_46:

(Start: 2 @29618 has 45 MA's), (4, 29534), (5, 29531), (6, 29510), (8, 29486),

Gene: Zaka\_46 Start: 29618, Stop: 29430, Start Num: 2

Candidate Starts for Zaka\_46:

(Start: 2 @29618 has 45 MA's), (4, 29534), (5, 29531), (6, 29510), (8, 29486),

Gene: Zulu\_47 Start: 29969, Stop: 29781, Start Num: 2

Candidate Starts for Zulu\_47:

(Start: 2 @29969 has 45 MA's), (4, 29885), (5, 29882), (6, 29861), (8, 29837),