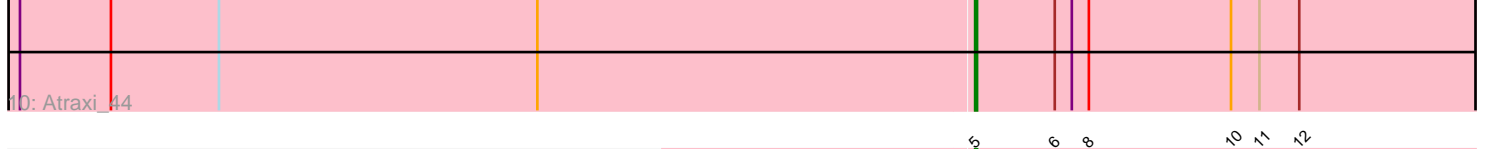
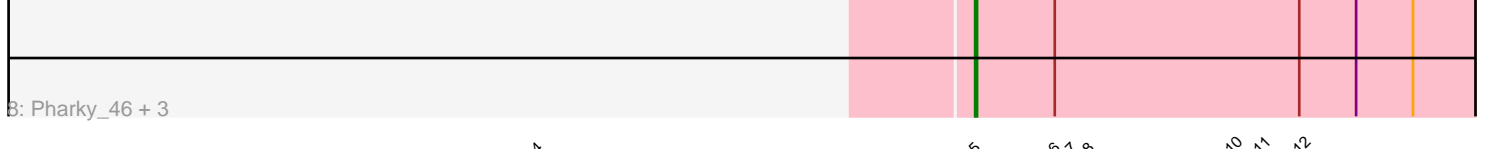
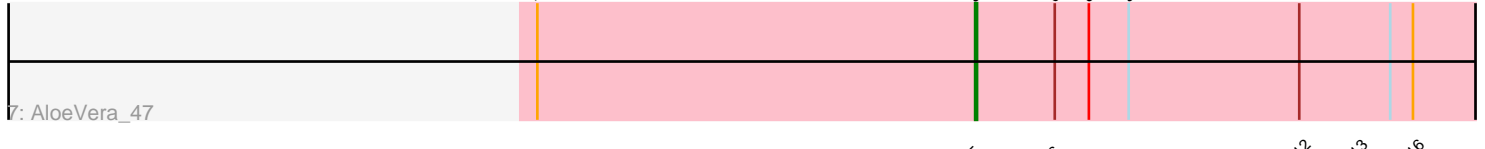
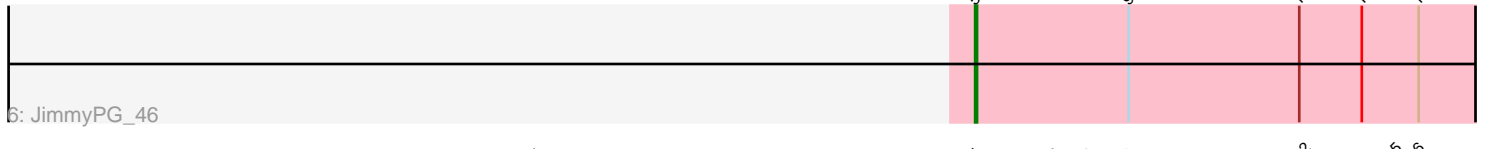
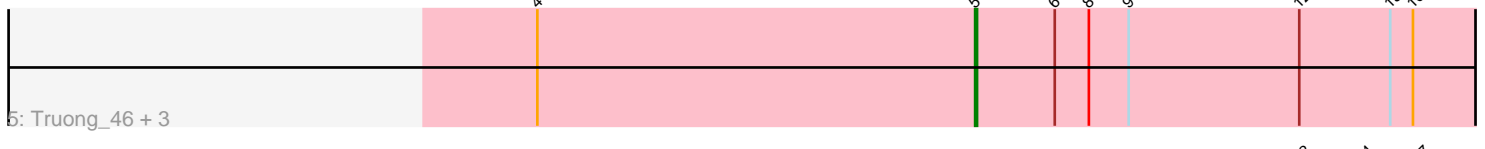
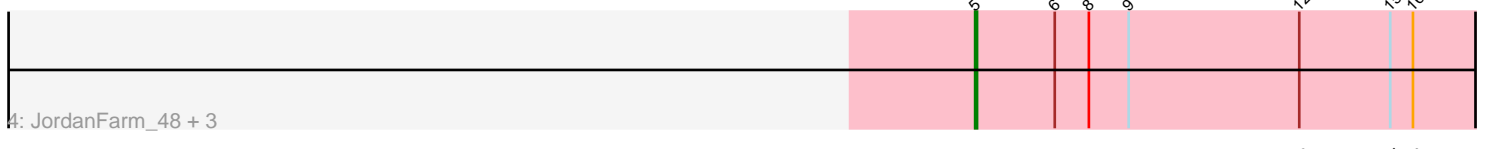
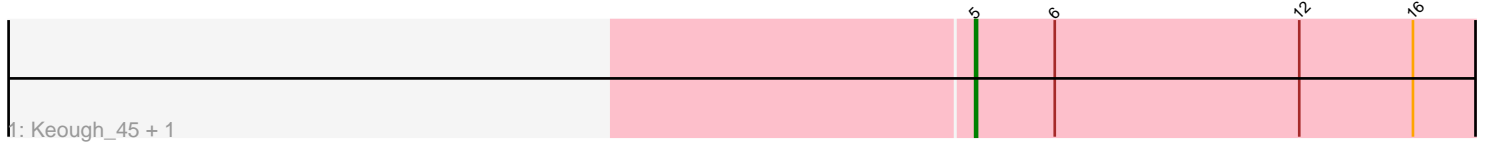


Pham 295014



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 295014 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295014 has 26 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Keough\_45, Mazun\_47
- Track 2 : Morrill\_44, ThirteenKH\_46
- Track 3 : PhriedRice\_47, Astartes\_46, RicoCaldo\_46, Moleficent\_46, Fullmetal\_46
- Track 4 : JordanFarm\_48, Ashton\_47, SoilSleuth\_48, Waterlily\_49
- Track 5 : Truong\_46, ShyRosie\_46, Barroma\_45, Akoni\_46
- Track 6 : JimmyPG\_46
- Track 7 : AloeVera\_47
- Track 8 : Pharky\_46, Phracted\_46, Phedro\_46, StagePhright\_46
- Track 9 : Yafa\_47
- Track 10 : Atraxi\_44
- Track 11 : TrippleS\_45

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

The start number called the most often in the published annotations is 5, it was called in 21 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akoni\_46, AloeVera\_47, Ashton\_47, Astartes\_46, Atraxi\_44, Barroma\_45, Fullmetal\_46, JimmyPG\_46, JordanFarm\_48, Keough\_45, Mazun\_47, Moleficent\_46, Morrill\_44, Pharky\_46, Phedro\_46, Phracted\_46, PhriedRice\_47, RicoCaldo\_46, ShyRosie\_46, SoilSleuth\_48, StagePhright\_46, ThirteenKH\_46, TrippleS\_45, Truong\_46, Waterlily\_49, Yafa\_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 5:

- Found in 26 of 26 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 21 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Akoni\_46 (EK2), AloeVera\_47 (EK2), Ashton\_47 (EK2), Astartes\_46 (EK2), Atraxi\_44 (EK2), Barroma\_45 (EK2), Fullmetal\_46 (EK2), JimmyPG\_46 (EK2), JordanFarm\_48 (EK2), Keough\_45 (EK2), Mazun\_47 (EK2), Moleficent\_46 (EK2), Morrill\_44 (EK2), Pharky\_46 (EK2), Phedro\_46 (EK2), Phracted\_46 (EK2), PhriedRice\_47 (EK2), RicoCaldo\_46 (EK2), ShyRosie\_46 (EK2), SoilSleuth\_48 (EK2), StagePhright\_46 (EK2), ThirteenKH\_46 (EK2), TrippleS\_45 (EK2), Truong\_46 (EK2), Waterlily\_49 (EK2), Yafa\_47 (EK2),

### **Summary by clusters:**

There is one cluster represented in this pham: EK2

Info for manual annotations of cluster EK2:

- Start number 5 was manually annotated 21 times for cluster EK2.

### **Gene Information:**

Gene: Akoni\_46 Start: 47955, Stop: 48233, Start Num: 5

Candidate Starts for Akoni\_46:

(4, 47724), (Start: 5 @47955 has 21 MA's), (6, 47997), (8, 48015), (9, 48036), (12, 48126), (15, 48174), (16, 48186),

Gene: AloeVera\_47 Start: 48168, Stop: 48446, Start Num: 5

Candidate Starts for AloeVera\_47:

(4, 47937), (Start: 5 @48168 has 21 MA's), (6, 48210), (8, 48228), (9, 48249), (12, 48339), (15, 48387), (16, 48399),

Gene: Ashton\_47 Start: 48167, Stop: 48445, Start Num: 5

Candidate Starts for Ashton\_47:

(Start: 5 @48167 has 21 MA's), (6, 48209), (8, 48227), (9, 48248), (12, 48338), (15, 48386), (16, 48398),

Gene: Astartes\_46 Start: 47708, Stop: 47983, Start Num: 5

Candidate Starts for Astartes\_46:

(Start: 5 @47708 has 21 MA's), (6, 47750), (12, 47879), (13, 47909), (16, 47939), (17, 47942),

Gene: Atraxi\_44 Start: 47500, Stop: 47775, Start Num: 5

Candidate Starts for Atraxi\_44:

(1, 46999), (2, 47047), (3, 47104), (4, 47272), (Start: 5 @47500 has 21 MA's), (6, 47542), (7, 47551), (8, 47560), (10, 47635), (11, 47650), (12, 47671),

Gene: Barroma\_45 Start: 47957, Stop: 48235, Start Num: 5

Candidate Starts for Barroma\_45:

(4, 47726), (Start: 5 @47957 has 21 MA's), (6, 47999), (8, 48017), (9, 48038), (12, 48128), (15, 48176), (16, 48188),

Gene: Fullmetal\_46 Start: 48043, Stop: 48318, Start Num: 5

Candidate Starts for Fullmetal\_46:

(Start: 5 @48043 has 21 MA's), (6, 48085), (12, 48214), (13, 48244), (16, 48274), (17, 48277),

Gene: JimmyPG\_46 Start: 48402, Stop: 48677, Start Num: 5

Candidate Starts for JimmyPG\_46:

(Start: 5 @48402 has 21 MA's), (9, 48483), (12, 48573), (14, 48606), (17, 48636),

Gene: JordanFarm\_48 Start: 48168, Stop: 48446, Start Num: 5

Candidate Starts for JordanFarm\_48:

(Start: 5 @48168 has 21 MA's), (6, 48210), (8, 48228), (9, 48249), (12, 48339), (15, 48387), (16, 48399),

Gene: Keough\_45 Start: 47839, Stop: 48114, Start Num: 5

Candidate Starts for Keough\_45:

(Start: 5 @47839 has 21 MA's), (6, 47881), (12, 48010), (16, 48070),

Gene: Mazun\_47 Start: 48446, Stop: 48721, Start Num: 5

Candidate Starts for Mazun\_47:

(Start: 5 @48446 has 21 MA's), (6, 48488), (12, 48617), (16, 48677),

Gene: Moleficent\_46 Start: 48050, Stop: 48325, Start Num: 5

Candidate Starts for Moleficent\_46:

(Start: 5 @48050 has 21 MA's), (6, 48092), (12, 48221), (13, 48251), (16, 48281), (17, 48284),

Gene: Morrill\_44 Start: 47480, Stop: 47755, Start Num: 5

Candidate Starts for Morrill\_44:

(Start: 5 @47480 has 21 MA's), (6, 47522), (7, 47531), (8, 47540), (10, 47615), (11, 47630), (12, 47651),

Gene: Pharky\_46 Start: 48046, Stop: 48321, Start Num: 5

Candidate Starts for Pharky\_46:

(Start: 5 @48046 has 21 MA's), (6, 48088), (12, 48217), (13, 48247), (16, 48277),

Gene: Phedro\_46 Start: 48046, Stop: 48321, Start Num: 5

Candidate Starts for Phedro\_46:

(Start: 5 @48046 has 21 MA's), (6, 48088), (12, 48217), (13, 48247), (16, 48277),

Gene: Phracted\_46 Start: 48046, Stop: 48321, Start Num: 5

Candidate Starts for Phracted\_46:

(Start: 5 @48046 has 21 MA's), (6, 48088), (12, 48217), (13, 48247), (16, 48277),

Gene: PhriedRice\_47 Start: 48150, Stop: 48425, Start Num: 5

Candidate Starts for PhriedRice\_47:

(Start: 5 @48150 has 21 MA's), (6, 48192), (12, 48321), (13, 48351), (16, 48381), (17, 48384),

Gene: RicoCaldo\_46 Start: 48128, Stop: 48403, Start Num: 5

Candidate Starts for RicoCaldo\_46:

(Start: 5 @48128 has 21 MA's), (6, 48170), (12, 48299), (13, 48329), (16, 48359), (17, 48362),

Gene: ShyRosie\_46 Start: 48177, Stop: 48455, Start Num: 5

Candidate Starts for ShyRosie\_46:

(4, 47946), (Start: 5 @48177 has 21 MA's), (6, 48219), (8, 48237), (9, 48258), (12, 48348), (15, 48396), (16, 48408),

Gene: SoilSleuth\_48 Start: 47999, Stop: 48277, Start Num: 5

Candidate Starts for SoilSleuth\_48:

(Start: 5 @47999 has 21 MA's), (6, 48041), (8, 48059), (9, 48080), (12, 48170), (15, 48218), (16, 48230),

Gene: StagePhright\_46 Start: 48046, Stop: 48321, Start Num: 5

Candidate Starts for StagePhright\_46:

(Start: 5 @48046 has 21 MA's), (6, 48088), (12, 48217), (13, 48247), (16, 48277),

Gene: ThirteenKH\_46 Start: 47490, Stop: 47765, Start Num: 5

Candidate Starts for ThirteenKH\_46:

(Start: 5 @47490 has 21 MA's), (6, 47532), (7, 47541), (8, 47550), (10, 47625), (11, 47640), (12, 47661),

Gene: TrippleS\_45 Start: 47639, Stop: 47914, Start Num: 5

Candidate Starts for TrippleS\_45:

(Start: 5 @47639 has 21 MA's), (6, 47681), (8, 47699), (10, 47774), (11, 47789), (12, 47810),

Gene: Truong\_46 Start: 47957, Stop: 48235, Start Num: 5

Candidate Starts for Truong\_46:

(4, 47726), (Start: 5 @47957 has 21 MA's), (6, 47999), (8, 48017), (9, 48038), (12, 48128), (15, 48176), (16, 48188),

Gene: Waterlily\_49 Start: 48208, Stop: 48486, Start Num: 5

Candidate Starts for Waterlily\_49:

(Start: 5 @48208 has 21 MA's), (6, 48250), (8, 48268), (9, 48289), (12, 48379), (15, 48427), (16, 48439),

Gene: Yafa\_47 Start: 47394, Stop: 47669, Start Num: 5

Candidate Starts for Yafa\_47:

(4, 47166), (Start: 5 @47394 has 21 MA's), (6, 47436), (7, 47445), (8, 47454), (10, 47529), (11, 47544), (12, 47565),