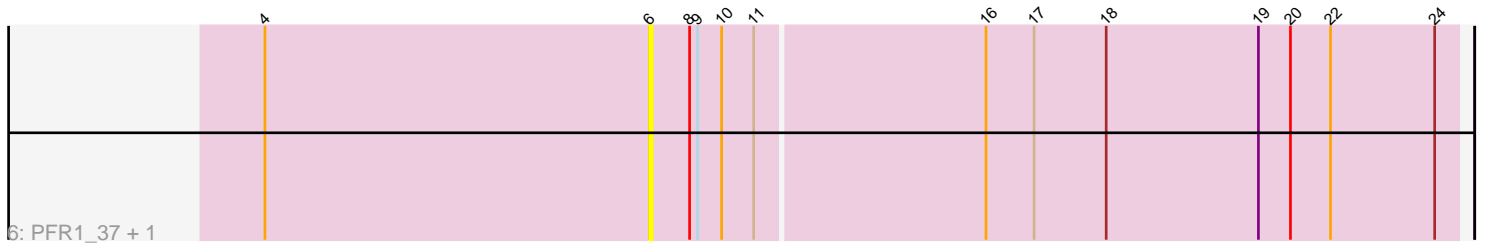
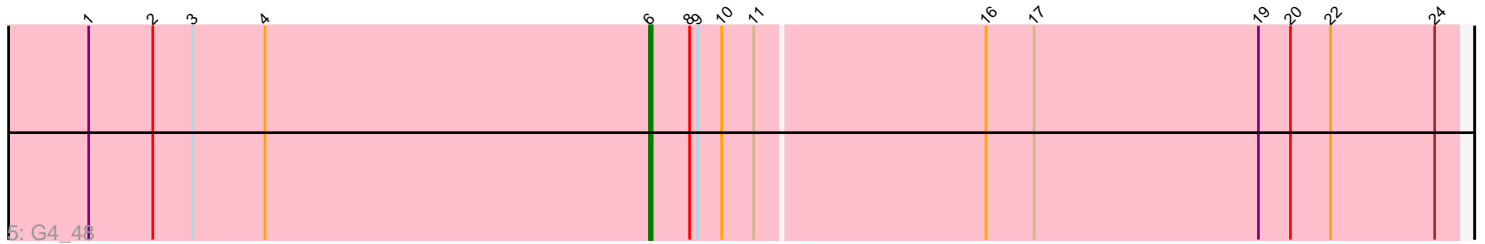
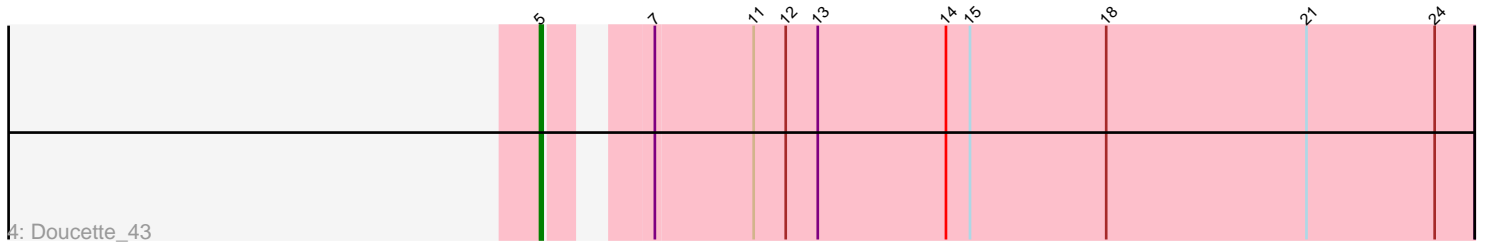
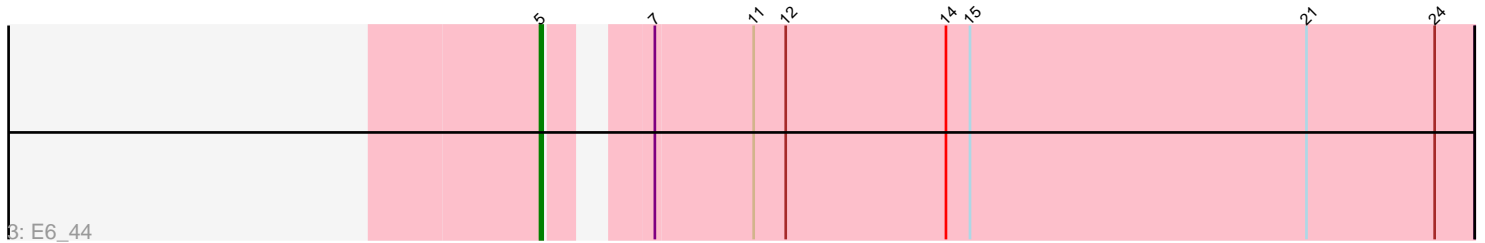
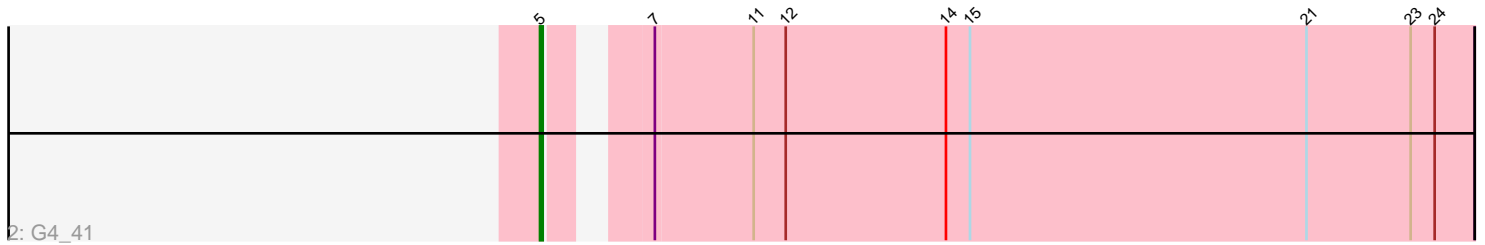
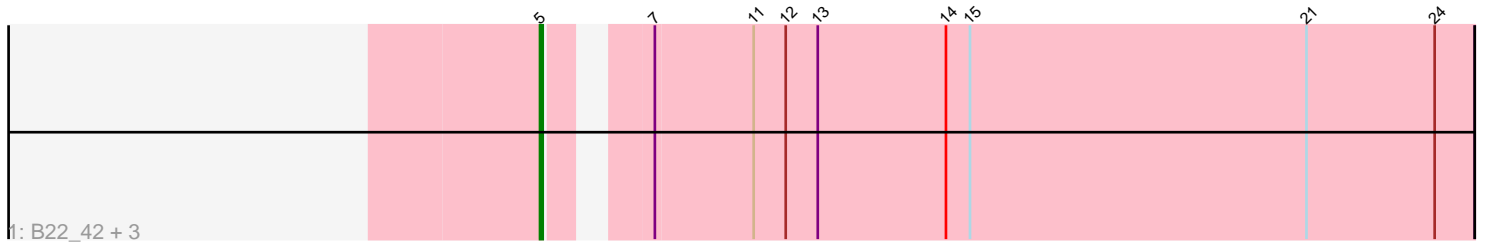


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 214883 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214883 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : B22\_42, E1\_40, Anatole\_40, B3\_39
- Track 2 : G4\_41
- Track 3 : E6\_44
- Track 4 : Doucette\_43
- Track 5 : G4\_48
- Track 6 : PFR1\_37, PFR2\_39

### ***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 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anatole\_40, B22\_42, B3\_39, Doucette\_43, E1\_40, E6\_44, G4\_41,

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

- 

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

- G4\_48, PFR1\_37, PFR2\_39,

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

Start 5:

- Found in 7 of 10 ( 70.0% ) of genes in pham
- Manual Annotations of this start: 7 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anatole\_40 (BV), B22\_42 (BW), B3\_39 (BV), Doucette\_43 (BW), E1\_40 (BV), E6\_44 (BW), G4\_41 (BW),

Start 6:

- Found in 3 of 10 ( 30.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present

- Phage (with cluster) where this start called: G4\_48 (BW), PFR1\_37 (BX), PFR2\_39 (BX),

### **Summary by clusters:**

There are 3 clusters represented in this pham: BV, BW, BX,

Info for manual annotations of cluster BV:

- Start number 5 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster BW:

- Start number 5 was manually annotated 4 times for cluster BW.
- Start number 6 was manually annotated 1 time for cluster BW.

### **Gene Information:**

Gene: Anatole\_40 Start: 28483, Stop: 28815, Start Num: 5

Candidate Starts for Anatole\_40:

(Start: 5 @28483 has 7 MA's), (7, 28510), (11, 28546), (12, 28558), (13, 28570), (14, 28618), (15, 28627), (21, 28753), (24, 28801),

Gene: B22\_42 Start: 28248, Stop: 28580, Start Num: 5

Candidate Starts for B22\_42:

(Start: 5 @28248 has 7 MA's), (7, 28275), (11, 28311), (12, 28323), (13, 28335), (14, 28383), (15, 28392), (21, 28518), (24, 28566),

Gene: B3\_39 Start: 27767, Stop: 28099, Start Num: 5

Candidate Starts for B3\_39:

(Start: 5 @27767 has 7 MA's), (7, 27794), (11, 27830), (12, 27842), (13, 27854), (14, 27902), (15, 27911), (21, 28037), (24, 28085),

Gene: Doucette\_43 Start: 29654, Stop: 29986, Start Num: 5

Candidate Starts for Doucette\_43:

(Start: 5 @29654 has 7 MA's), (7, 29681), (11, 29717), (12, 29729), (13, 29741), (14, 29789), (15, 29798), (18, 29849), (21, 29924), (24, 29972),

Gene: E1\_40 Start: 28483, Stop: 28815, Start Num: 5

Candidate Starts for E1\_40:

(Start: 5 @28483 has 7 MA's), (7, 28510), (11, 28546), (12, 28558), (13, 28570), (14, 28618), (15, 28627), (21, 28753), (24, 28801),

Gene: E6\_44 Start: 31064, Stop: 31396, Start Num: 5

Candidate Starts for E6\_44:

(Start: 5 @31064 has 7 MA's), (7, 31091), (11, 31127), (12, 31139), (14, 31199), (15, 31208), (21, 31334), (24, 31382),

Gene: G4\_41 Start: 28598, Stop: 28930, Start Num: 5

Candidate Starts for G4\_41:

(Start: 5 @28598 has 7 MA's), (7, 28625), (11, 28661), (12, 28673), (14, 28733), (15, 28742), (21, 28868), (23, 28907), (24, 28916),

Gene: G4\_48 Start: 30679, Stop: 30978, Start Num: 6

Candidate Starts for G4\_48:

(1, 30469), (2, 30493), (3, 30508), (4, 30535), (Start: 6 @30679 has 1 MA's), (8, 30694), (9, 30697), (10, 30706), (11, 30718), (16, 30802), (17, 30820), (19, 30904), (20, 30916), (22, 30931), (24, 30970),

Gene: PFR1\_37 Start: 28506, Stop: 28805, Start Num: 6

Candidate Starts for PFR1\_37:

(4, 28362), (Start: 6 @28506 has 1 MA's), (8, 28521), (9, 28524), (10, 28533), (11, 28545), (16, 28629), (17, 28647), (18, 28674), (19, 28731), (20, 28743), (22, 28758), (24, 28797),

Gene: PFR2\_39 Start: 30075, Stop: 30374, Start Num: 6

Candidate Starts for PFR2\_39:

(4, 29931), (Start: 6 @30075 has 1 MA's), (8, 30090), (9, 30093), (10, 30102), (11, 30114), (16, 30198), (17, 30216), (18, 30243), (19, 30300), (20, 30312), (22, 30327), (24, 30366),