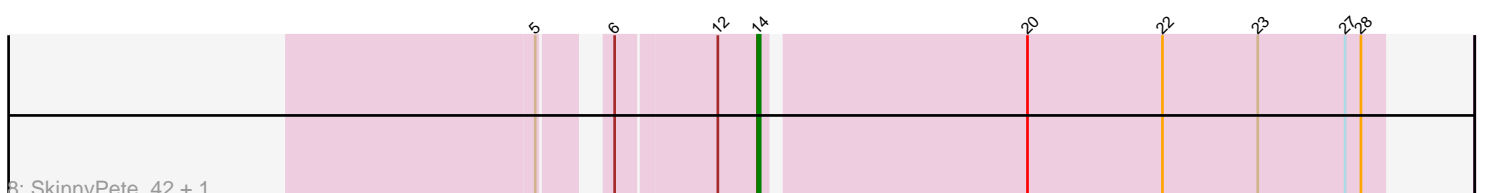
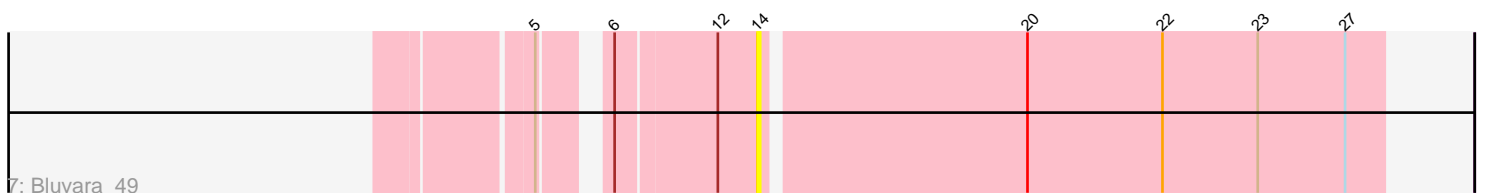
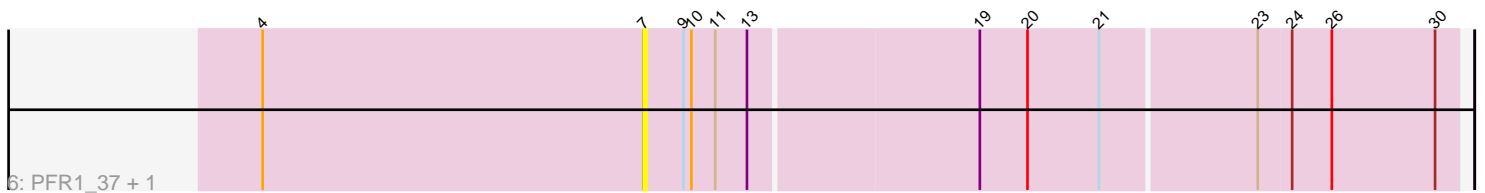
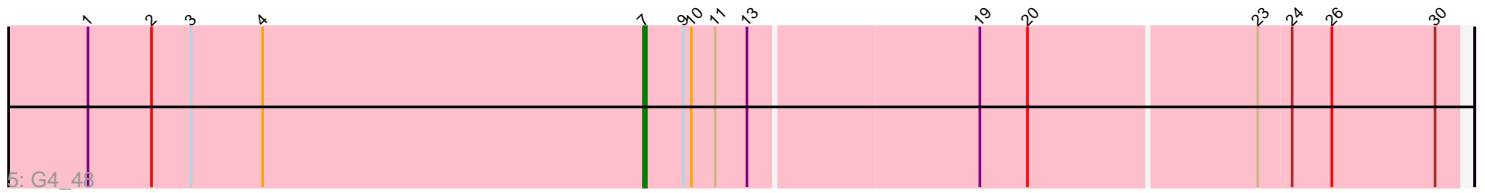
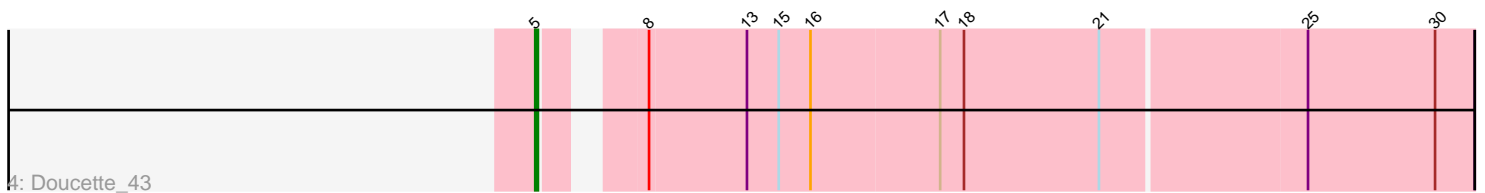
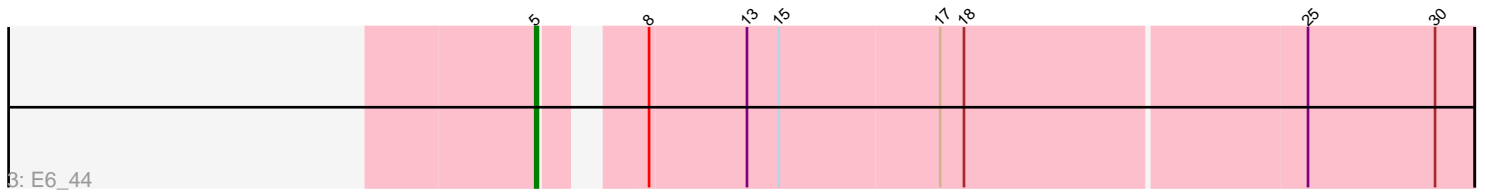
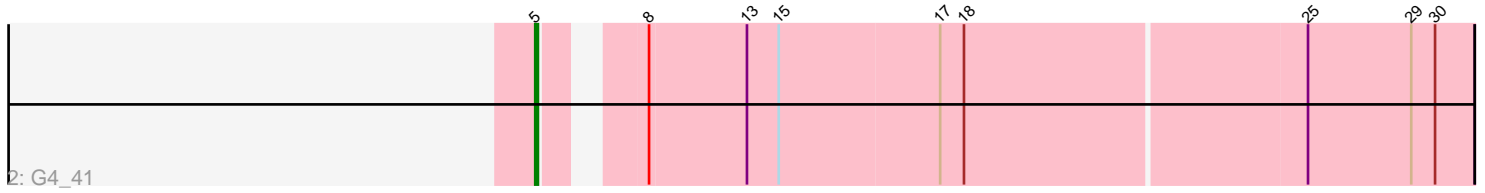
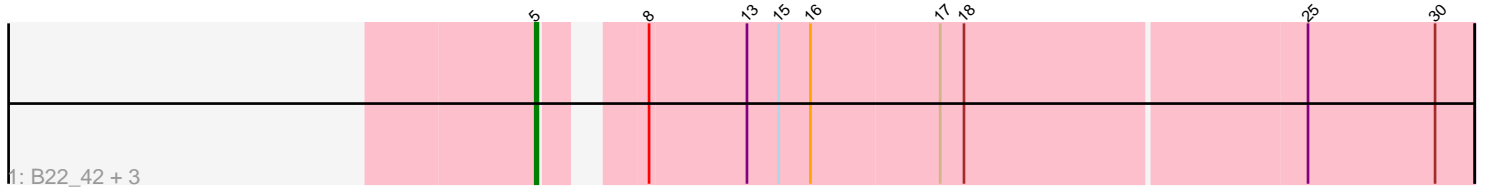


Pham 295224



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 295224 Report

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

Pham number 295224 has 13 members, 4 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
- Track 7 : Bluvara_49
- Track 8 : SkinnyPete_42, Caterpie_61

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 9 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:

- Bluvara_49, Caterpie_61, SkinnyPete_42,

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

- G4_48, PFR1_37, PFR2_39,

Summary by start number:

Start 5:

- Found in 10 of 13 (76.9%) of genes in pham
- Manual Annotations of this start: 7 of 9
- Called 70.0% 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 7:

- Found in 3 of 13 (23.1%) of genes in pham

- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: G4_48 (BW), PFR1_37 (BX), PFR2_39 (BX),

Start 14:

- Found in 3 of 13 (23.1%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bluvara_49 (I3), Caterpie_61 (AD), SkinnyPete_42 (N),

Summary by clusters:

There are 6 clusters represented in this pham: AD, I3, N, 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 7 was manually annotated 1 time for cluster BW.

Info for manual annotations of cluster N:

- Start number 14 was manually annotated 1 time for cluster N.

Gene Information:

Gene: Anatole_40 Start: 28483, Stop: 28815, Start Num: 5

Candidate Starts for Anatole_40:

(Start: 5 @28483 has 7 MA's), (8, 28510), (13, 28546), (15, 28558), (16, 28570), (17, 28618), (18, 28627), (25, 28753), (30, 28801),

Gene: B22_42 Start: 28248, Stop: 28580, Start Num: 5

Candidate Starts for B22_42:

(Start: 5 @28248 has 7 MA's), (8, 28275), (13, 28311), (15, 28323), (16, 28335), (17, 28383), (18, 28392), (25, 28518), (30, 28566),

Gene: B3_39 Start: 27767, Stop: 28099, Start Num: 5

Candidate Starts for B3_39:

(Start: 5 @27767 has 7 MA's), (8, 27794), (13, 27830), (15, 27842), (16, 27854), (17, 27902), (18, 27911), (25, 28037), (30, 28085),

Gene: Bluvara_49 Start: 36316, Stop: 36546, Start Num: 14

Candidate Starts for Bluvara_49:

(Start: 5 @36247 has 7 MA's), (6, 36265), (12, 36301), (Start: 14 @36316 has 1 MA's), (20, 36412), (22, 36463), (23, 36499), (27, 36532),

Gene: Caterpie_61 Start: 46837, Stop: 47067, Start Num: 14

Candidate Starts for Caterpie_61:

(Start: 5 @46768 has 7 MA's), (6, 46786), (12, 46822), (Start: 14 @46837 has 1 MA's), (20, 46933), (22, 46984), (23, 47020), (27, 47053), (28, 47059),

Gene: Doucette_43 Start: 29654, Stop: 29986, Start Num: 5

Candidate Starts for Doucette_43:

(Start: 5 @29654 has 7 MA's), (8, 29681), (13, 29717), (15, 29729), (16, 29741), (17, 29789), (18, 29798), (21, 29849), (25, 29924), (30, 29972),

Gene: E1_40 Start: 28483, Stop: 28815, Start Num: 5

Candidate Starts for E1_40:

(Start: 5 @28483 has 7 MA's), (8, 28510), (13, 28546), (15, 28558), (16, 28570), (17, 28618), (18, 28627), (25, 28753), (30, 28801),

Gene: E6_44 Start: 31064, Stop: 31396, Start Num: 5

Candidate Starts for E6_44:

(Start: 5 @31064 has 7 MA's), (8, 31091), (13, 31127), (15, 31139), (17, 31199), (18, 31208), (25, 31334), (30, 31382),

Gene: G4_41 Start: 28598, Stop: 28930, Start Num: 5

Candidate Starts for G4_41:

(Start: 5 @28598 has 7 MA's), (8, 28625), (13, 28661), (15, 28673), (17, 28733), (18, 28742), (25, 28868), (29, 28907), (30, 28916),

Gene: G4_48 Start: 30679, Stop: 30978, Start Num: 7

Candidate Starts for G4_48:

(1, 30469), (2, 30493), (3, 30508), (4, 30535), (Start: 7 @30679 has 1 MA's), (9, 30694), (10, 30697), (11, 30706), (13, 30718), (19, 30802), (20, 30820), (23, 30904), (24, 30916), (26, 30931), (30, 30970),

Gene: PFR1_37 Start: 28506, Stop: 28805, Start Num: 7

Candidate Starts for PFR1_37:

(4, 28362), (Start: 7 @28506 has 1 MA's), (9, 28521), (10, 28524), (11, 28533), (13, 28545), (19, 28629), (20, 28647), (21, 28674), (23, 28731), (24, 28743), (26, 28758), (30, 28797),

Gene: PFR2_39 Start: 30075, Stop: 30374, Start Num: 7

Candidate Starts for PFR2_39:

(4, 29931), (Start: 7 @30075 has 1 MA's), (9, 30090), (10, 30093), (11, 30102), (13, 30114), (19, 30198), (20, 30216), (21, 30243), (23, 30300), (24, 30312), (26, 30327), (30, 30366),

Gene: SkinnyPete_42 Start: 29948, Stop: 30178, Start Num: 14

Candidate Starts for SkinnyPete_42:

(Start: 5 @29879 has 7 MA's), (6, 29897), (12, 29933), (Start: 14 @29948 has 1 MA's), (20, 30044), (22, 30095), (23, 30131), (27, 30164), (28, 30170),