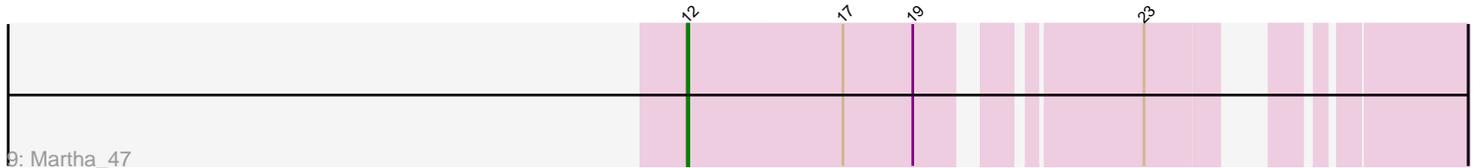
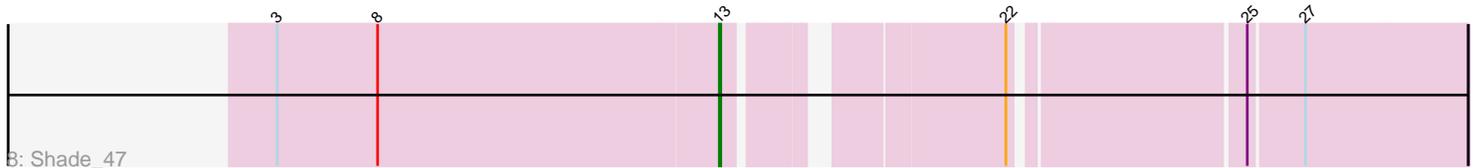
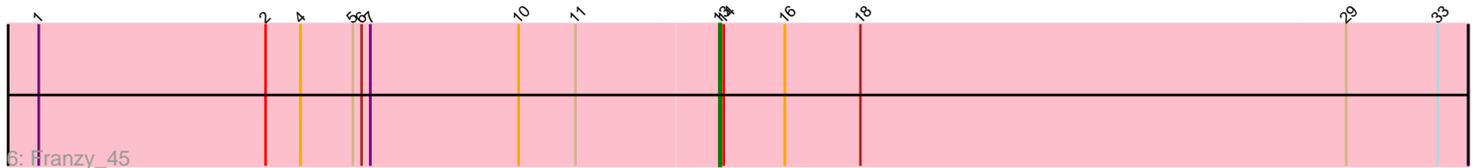
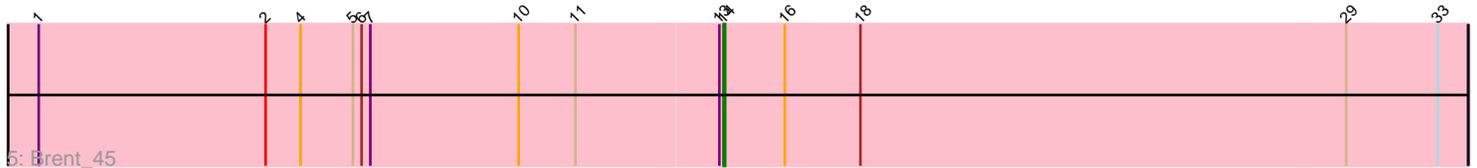
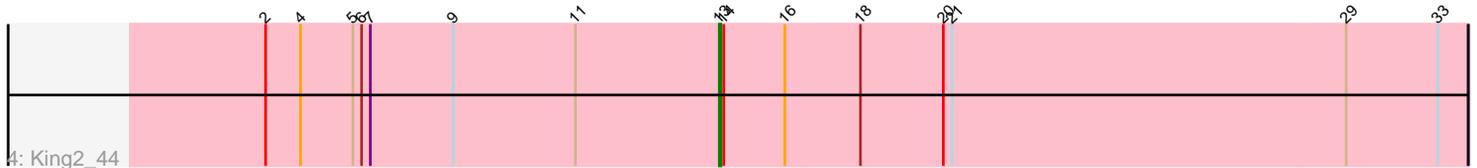
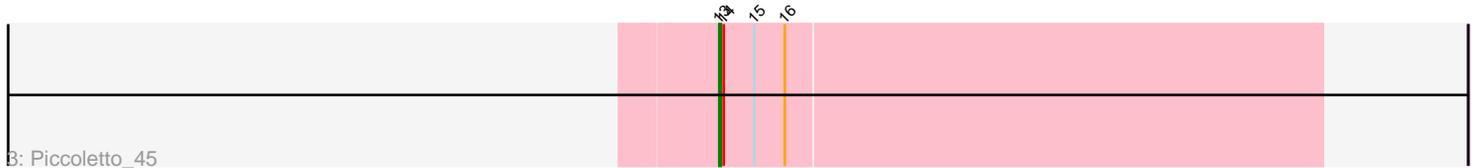
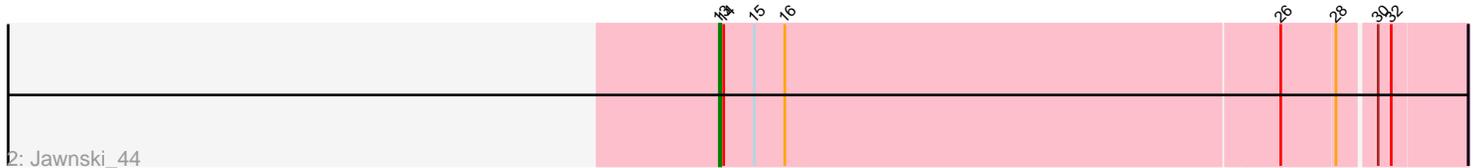
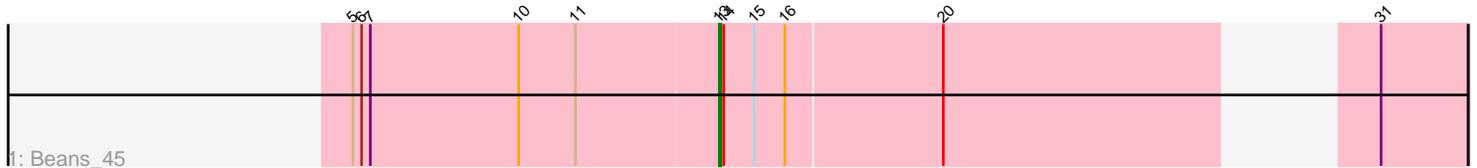


Pham 291788



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 291788 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291788 has 9 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Beans_45
- Track 2 : Jawnski_44
- Track 3 : Piccoletto_45
- Track 4 : King2_44
- Track 5 : Brent_45
- Track 6 : Franzy_45
- Track 7 : NathanVaag_45
- Track 8 : Shade_47
- Track 9 : Martha_47

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

The start number called the most often in the published annotations is 13, it was called in 6 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beans_45, Franzy_45, Jawnski_44, King2_44, Piccoletto_45, Shade_47,

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

- Brent_45, NathanVaag_45,

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

- Martha_47,

Summary by start number:

Start 12:

- Found in 1 of 9 (11.1%) 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: Martha_47 (AO2),

Start 13:

- Found in 8 of 9 (88.9%) of genes in pham

- Manual Annotations of this start: 6 of 9
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Beans_45 (AO1), Franzy_45 (AO1), Jawnski_44 (AO1), King2_44 (AO1), Piccoletto_45 (AO1), Shade_47 (AO2),

Start 14:

- Found in 7 of 9 (77.8%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Brent_45 (AO1), NathanVaag_45 (AO1),

Summary by clusters:

There are 2 clusters represented in this pham: AO2, AO1,

Info for manual annotations of cluster AO1:

- Start number 13 was manually annotated 5 times for cluster AO1.
- Start number 14 was manually annotated 2 times for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 12 was manually annotated 1 time for cluster AO2.
- Start number 13 was manually annotated 1 time for cluster AO2.

Gene Information:

Gene: Beans_45 Start: 35986, Stop: 36414, Start Num: 13

Candidate Starts for Beans_45:

(5, 35737), (6, 35743), (7, 35749), (10, 35851), (11, 35890), (Start: 13 @35986 has 6 MA's), (Start: 14 @35989 has 2 MA's), (15, 36010), (16, 36031), (20, 36136), (31, 36355),

Gene: Brent_45 Start: 36162, Stop: 36671, Start Num: 14

Candidate Starts for Brent_45:

(1, 35694), (2, 35850), (4, 35874), (5, 35910), (6, 35916), (7, 35922), (10, 36024), (11, 36063), (Start: 13 @36159 has 6 MA's), (Start: 14 @36162 has 2 MA's), (16, 36204), (18, 36255), (29, 36588), (33, 36651),

Gene: Franzy_45 Start: 36175, Stop: 36687, Start Num: 13

Candidate Starts for Franzy_45:

(1, 35710), (2, 35866), (4, 35890), (5, 35926), (6, 35932), (7, 35938), (10, 36040), (11, 36079), (Start: 13 @36175 has 6 MA's), (Start: 14 @36178 has 2 MA's), (16, 36220), (18, 36271), (29, 36604), (33, 36667),

Gene: Jawnski_44 Start: 35695, Stop: 36195, Start Num: 13

Candidate Starts for Jawnski_44:

(Start: 13 @35695 has 6 MA's), (Start: 14 @35698 has 2 MA's), (15, 35719), (16, 35740), (26, 36076), (28, 36112), (30, 36136), (32, 36145),

Gene: King2_44 Start: 36006, Stop: 36518, Start Num: 13

Candidate Starts for King2_44:

(2, 35694), (4, 35718), (5, 35754), (6, 35760), (7, 35766), (9, 35823), (11, 35907), (Start: 13 @36006 has 6 MA's), (Start: 14 @36009 has 2 MA's), (16, 36051), (18, 36102), (20, 36159), (21, 36165), (29,

36435), (33, 36498),

Gene: Martha_47 Start: 36224, Stop: 36670, Start Num: 12

Candidate Starts for Martha_47:

(Start: 12 @36224 has 1 MA's), (17, 36329), (19, 36377), (23, 36503),

Gene: NathanVaag_45 Start: 35939, Stop: 36430, Start Num: 14

Candidate Starts for NathanVaag_45:

(5, 35687), (6, 35693), (7, 35699), (10, 35801), (11, 35840), (Start: 13 @35936 has 6 MA's), (Start: 14 @35939 has 2 MA's), (15, 35960), (16, 35981), (24, 36278), (29, 36347), (31, 36371), (33, 36410),

Gene: Piccoletto_45 Start: 36083, Stop: 36493, Start Num: 13

Candidate Starts for Piccoletto_45:

(Start: 13 @36083 has 6 MA's), (Start: 14 @36086 has 2 MA's), (15, 36107), (16, 36128),

Gene: Shade_47 Start: 36112, Stop: 36564, Start Num: 13

Candidate Starts for Shade_47:

(3, 35812), (8, 35881), (Start: 13 @36112 has 6 MA's), (22, 36271), (25, 36418), (27, 36454),