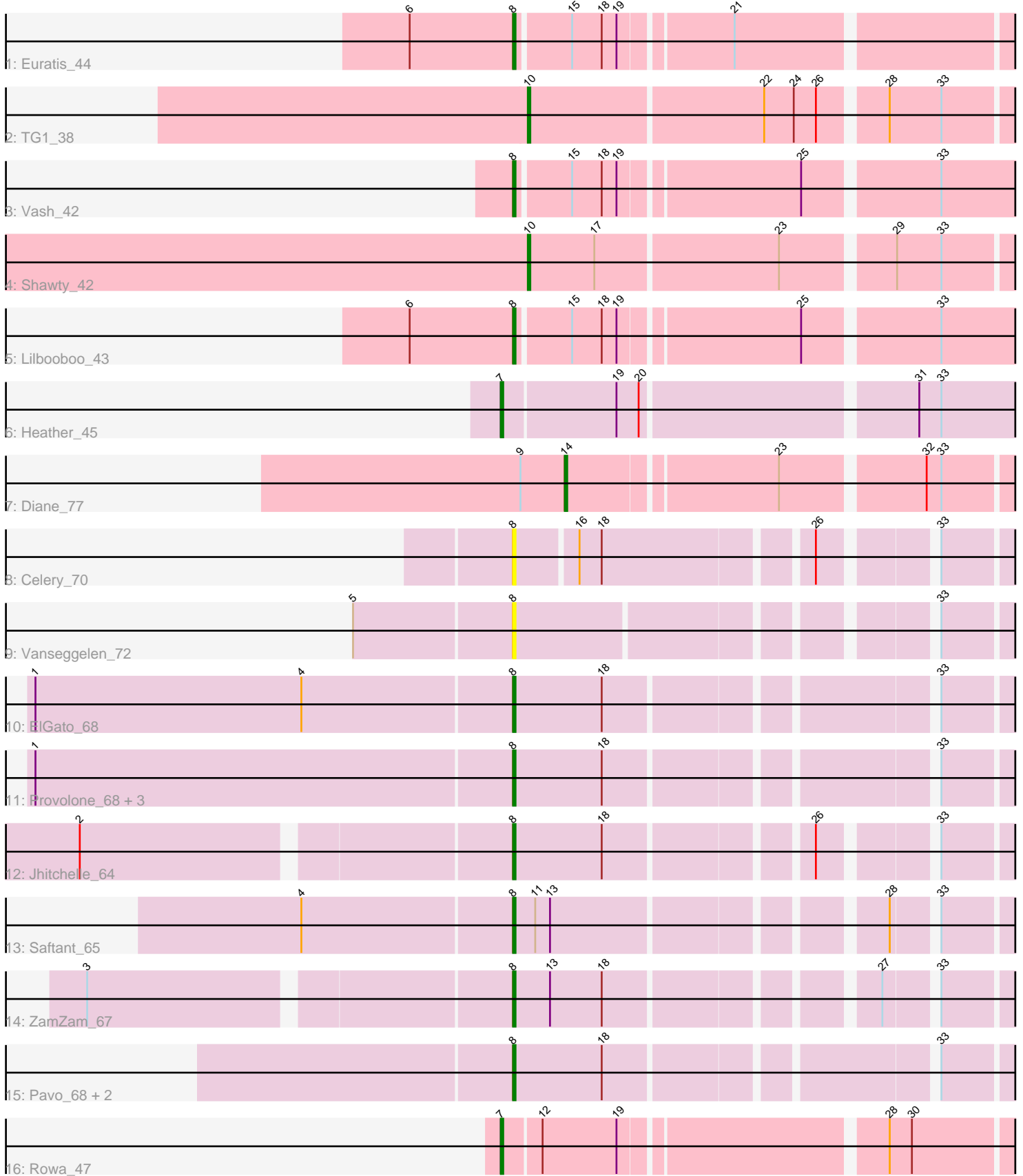


Pham 296939



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 296939 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 296939 has 21 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Euratis_44
- Track 2 : TG1_38
- Track 3 : Vash_42
- Track 4 : Shawty_42
- Track 5 : Lilbooboo_43
- Track 6 : Heather_45
- Track 7 : Diane_77
- Track 8 : Celery_70
- Track 9 : Vanseggelen_72
- Track 10 : ElGato_68
- Track 11 : Provolone_68, Sudan_67, Kaine_67, Alsaber_67
- Track 12 : Jhitchelle_64
- Track 13 : Saftant_65
- Track 14 : ZamZam_67
- Track 15 : Pavo_68, Dexers_65, Conan_68
- Track 16 : Rowa_47

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

The start number called the most often in the published annotations is 8, it was called in 14 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alsaber_67, Celery_70, Conan_68, Dexers_65, ElGato_68, Euratis_44, Jhitchelle_64, Kaine_67, Lilbooboo_43, Pavo_68, Provolone_68, Saftant_65, Sudan_67, Vanseggelen_72, Vash_42, ZamZam_67,

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

-

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

- Diane_77, Heather_45, Rowa_47, Shawty_42, TG1_38,

Summary by start number:

Start 7:

- Found in 2 of 21 (9.5%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Heather_45 (BB2), Rowa_47 (BL),

Start 8:

- Found in 16 of 21 (76.2%) of genes in pham
- Manual Annotations of this start: 14 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alsaber_67 (BD3), Celery_70 (BD3), Conan_68 (BD3), Dexers_65 (BD3), ElGato_68 (BD3), Euratis_44 (BB1), Jhitchelle_64 (BD3), Kaine_67 (BD3), Lilbooboo_43 (BB1), Pavo_68 (BD3), Provolone_68 (BD3), Saftant_65 (BD3), Sudan_67 (BD3), Vanseggelen_72 (BD3), Vash_42 (BB1), ZamZam_67 (BD3),

Start 10:

- Found in 2 of 21 (9.5%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shawty_42 (BB1), TG1_38 (BB1),

Start 14:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Diane_77 (BD2),

Summary by clusters:

There are 5 clusters represented in this pham: BL, BB1, BB2, BD3, BD2,

Info for manual annotations of cluster BB1:

- Start number 8 was manually annotated 3 times for cluster BB1.
- Start number 10 was manually annotated 2 times for cluster BB1.

Info for manual annotations of cluster BB2:

- Start number 7 was manually annotated 1 time for cluster BB2.

Info for manual annotations of cluster BD2:

- Start number 14 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster BD3:

- Start number 8 was manually annotated 11 times for cluster BD3.

Info for manual annotations of cluster BL:

- Start number 7 was manually annotated 1 time for cluster BL.

Gene Information:

Gene: Alsaber_67 Start: 43932, Stop: 43747, Start Num: 8

Candidate Starts for Alsaber_67:

(1, 44124), (Start: 8 @43932 has 14 MA's), (18, 43896), (33, 43776),

Gene: Celery_70 Start: 43835, Stop: 43656, Start Num: 8

Candidate Starts for Celery_70:

(Start: 8 @43835 has 14 MA's), (16, 43811), (18, 43802), (26, 43724), (33, 43685),

Gene: Conan_68 Start: 44184, Stop: 43999, Start Num: 8

Candidate Starts for Conan_68:

(Start: 8 @44184 has 14 MA's), (18, 44148), (33, 44028),

Gene: Dexers_65 Start: 44158, Stop: 43973, Start Num: 8

Candidate Starts for Dexers_65:

(Start: 8 @44158 has 14 MA's), (18, 44122), (33, 44002),

Gene: Diane_77 Start: 48864, Stop: 48694, Start Num: 14

Candidate Starts for Diane_77:

(9, 48882), (Start: 14 @48864 has 1 MA's), (23, 48783), (32, 48729), (33, 48723),

Gene: ElGato_68 Start: 44061, Stop: 43876, Start Num: 8

Candidate Starts for ElGato_68:

(1, 44253), (4, 44145), (Start: 8 @44061 has 14 MA's), (18, 44025), (33, 43905),

Gene: Euratis_44 Start: 32135, Stop: 32332, Start Num: 8

Candidate Starts for Euratis_44:

(6, 32093), (Start: 8 @32135 has 14 MA's), (15, 32156), (18, 32168), (19, 32174), (21, 32216),

Gene: Heather_45 Start: 33301, Stop: 33516, Start Num: 7

Candidate Starts for Heather_45:

(Start: 7 @33301 has 2 MA's), (19, 33346), (20, 33355), (31, 33460), (33, 33469),

Gene: Jhitchelle_64 Start: 43438, Stop: 43259, Start Num: 8

Candidate Starts for Jhitchelle_64:

(2, 43603), (Start: 8 @43438 has 14 MA's), (18, 43402), (26, 43327), (33, 43288),

Gene: Kaine_67 Start: 43956, Stop: 43771, Start Num: 8

Candidate Starts for Kaine_67:

(1, 44148), (Start: 8 @43956 has 14 MA's), (18, 43920), (33, 43800),

Gene: Lilbooboo_43 Start: 32803, Stop: 33003, Start Num: 8

Candidate Starts for Lilbooboo_43:

(6, 32761), (Start: 8 @32803 has 14 MA's), (15, 32824), (18, 32836), (19, 32842), (25, 32911), (33, 32962),

Gene: Pavo_68 Start: 44132, Stop: 43947, Start Num: 8

Candidate Starts for Pavo_68:

(Start: 8 @44132 has 14 MA's), (18, 44096), (33, 43976),

Gene: Provolone_68 Start: 44273, Stop: 44088, Start Num: 8
Candidate Starts for Provolone_68:
(1, 44465), (Start: 8 @44273 has 14 MA's), (18, 44237), (33, 44117),

Gene: Rowa_47 Start: 34523, Stop: 34726, Start Num: 7
Candidate Starts for Rowa_47:
(Start: 7 @34523 has 2 MA's), (12, 34538), (19, 34568), (28, 34667), (30, 34676),

Gene: Saftant_65 Start: 44014, Stop: 43835, Start Num: 8
Candidate Starts for Saftant_65:
(4, 44098), (Start: 8 @44014 has 14 MA's), (11, 44005), (13, 43999), (28, 43879), (33, 43864),

Gene: Shawty_42 Start: 32427, Stop: 32624, Start Num: 10
Candidate Starts for Shawty_42:
(Start: 10 @32427 has 2 MA's), (17, 32454), (23, 32526), (29, 32568), (33, 32586),

Gene: Sudan_67 Start: 43939, Stop: 43754, Start Num: 8
Candidate Starts for Sudan_67:
(1, 44131), (Start: 8 @43939 has 14 MA's), (18, 43903), (33, 43783),

Gene: TG1_38 Start: 31372, Stop: 31563, Start Num: 10
Candidate Starts for TG1_38:
(Start: 10 @31372 has 2 MA's), (22, 31465), (24, 31477), (26, 31486), (28, 31510), (33, 31531),

Gene: Vanseggelen_72 Start: 43995, Stop: 43816, Start Num: 8
Candidate Starts for Vanseggelen_72:
(5, 44058), (Start: 8 @43995 has 14 MA's), (33, 43845),

Gene: Vash_42 Start: 32602, Stop: 32802, Start Num: 8
Candidate Starts for Vash_42:
(Start: 8 @32602 has 14 MA's), (15, 32623), (18, 32635), (19, 32641), (25, 32710), (33, 32761),

Gene: ZamZam_67 Start: 44356, Stop: 44177, Start Num: 8
Candidate Starts for ZamZam_67:
(3, 44518), (Start: 8 @44356 has 14 MA's), (13, 44341), (18, 44320), (27, 44224), (33, 44206),