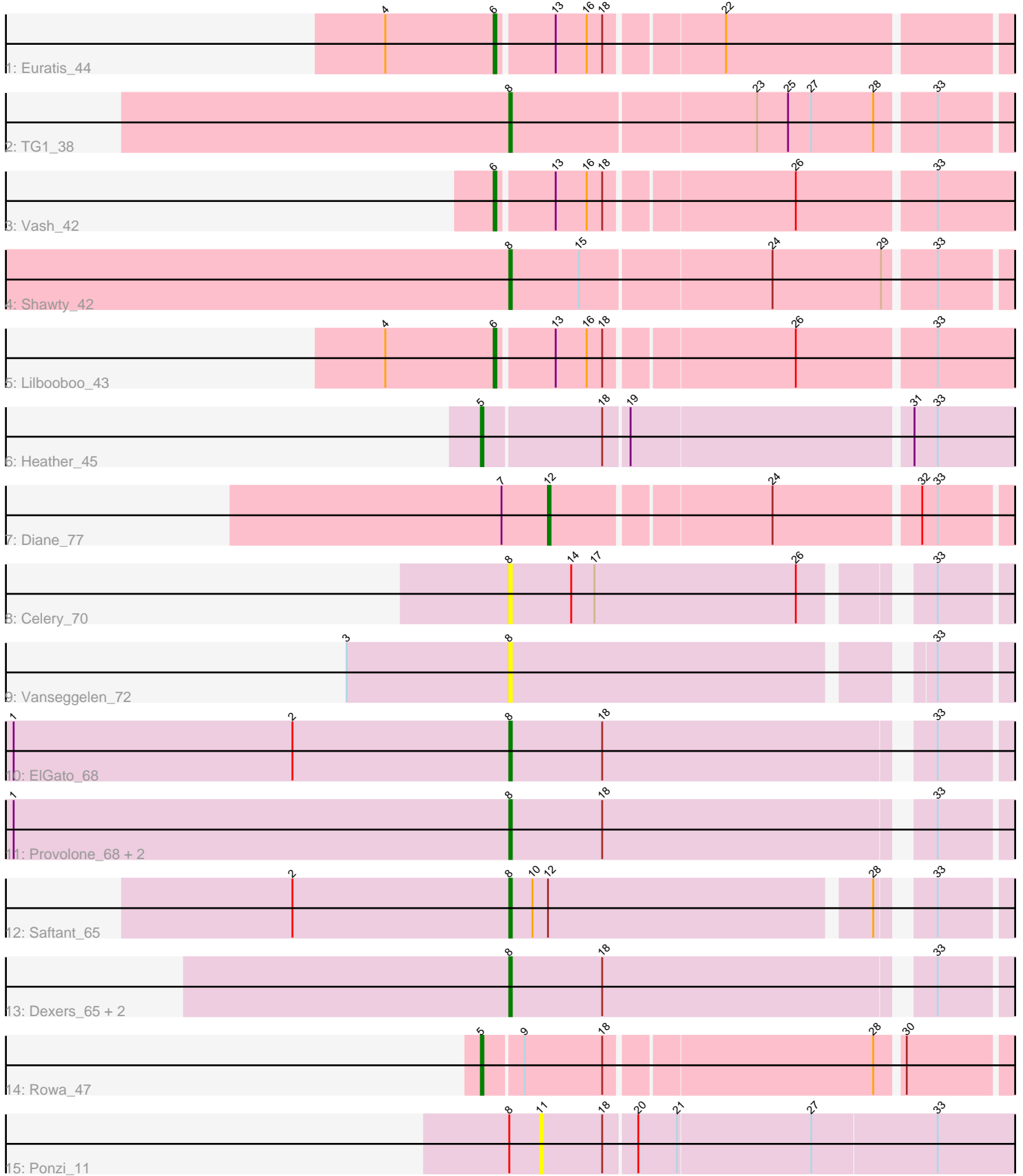# Pham 194345

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 194345 Report

This analysis was run 11/02/24 on database version 579.

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 194345 has 19 members, 5 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, Kaine_68, Alsaber_67
• Track 12 : Saftant_65
• Track 13 : Dexers_65, Pavo_69, Conan_68
• Track 14 : Rowa_47
• Track 15 : Ponzi_11

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 8 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alsaber_67, Celery_70, Conan_68, Dexers_65, ElGato_68, Kaine_68, Pavo_69, Provolone_68, Saftant_65, Shawty_42, TG1_38, Vanseggelen_72,

Genes that have the "Most Annotated" start but do not call it:
• Ponzi_11,

Genes that do not have the "Most Annotated" start:
• Diane_77, Euratis_44, Heather_45, Lilbooboo_43, Rowa_47, Vash_42,

Summary by start number:

Start 5:
• Found in 2 of 19 (10.5%) of genes in pham
• Manual Annotations of this start: 2 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Heather_45 (BB2), Rowa_47 (BL),

Start 6:
• Found in 3 of 19 (15.8%) of genes in pham
• Manual Annotations of this start: 3 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Euratis_44 (BB1), Lilbooboo_43 (BB1), Vash_42 (BB1),

Start 8:
• Found in 13 of 19 (68.4%) of genes in pham
• Manual Annotations of this start: 8 of 14
• Called 92.3% 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), Kaine_68 (BD3), Pavo_69 (BD3), Provolone_68 (BD3), Saftant_65 (BD3), Shawty_42 (BB1), TG1_38 (BB1), Vanseggelen_72 (BD3),

Start 11:
• Found in 1 of 19 (5.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ponzi_11 (singleton),

Start 12:
• Found in 2 of 19 (10.5%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Diane_77 (BD2),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, BL, BD3, BD2, BB2, BB1,

Info for manual annotations of cluster BB1:
•Start number 6 was manually annotated 3 times for cluster BB1.
•Start number 8 was manually annotated 2 times for cluster BB1.

Info for manual annotations of cluster BB2:
•Start number 5 was manually annotated 1 time for cluster BB2.

Info for manual annotations of cluster BD2:
•Start number 12 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster BD3:
•Start number 8 was manually annotated 6 times for cluster BD3.

Info for manual annotations of cluster BL:
•Start number 5 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 8 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 8 MA's), (14, 43811), (17, 43802), (26, 43724), (33, 43685),

Gene: Conan_68 Start: 44184, Stop: 43999, Start Num: 8
Candidate Starts for Conan_68:
(Start: 8 @44184 has 8 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 8 MA's), (18, 44122), (33, 44002),

Gene: Diane_77 Start: 48864, Stop: 48694, Start Num: 12
Candidate Starts for Diane_77:
(7, 48882), (Start: 12 @48864 has 1 MA's), (24, 48783), (32, 48729), (33, 48723),

Gene: ElGato_68 Start: 44061, Stop: 43876, Start Num: 8
Candidate Starts for ElGato_68:
(1, 44253), (2, 44145), (Start: 8 @44061 has 8 MA's), (18, 44025), (33, 43905),

Gene: Euratis_44 Start: 32135, Stop: 32332, Start Num: 6
Candidate Starts for Euratis_44:
(4, 32093), (Start: 6 @32135 has 3 MA's), (13, 32156), (16, 32168), (18, 32174), (22, 32216),

Gene: Heather_45 Start: 33301, Stop: 33516, Start Num: 5
Candidate Starts for Heather_45:
(Start: 5 @33301 has 2 MA's), (18, 33346), (19, 33355), (31, 33460), (33, 33469),

Gene: Kaine_68 Start: 43956, Stop: 43771, Start Num: 8
Candidate Starts for Kaine_68:
(1, 44148), (Start: 8 @43956 has 8 MA's), (18, 43920), (33, 43800),

Gene: Lilbooboo_43 Start: 32803, Stop: 33003, Start Num: 6
Candidate Starts for Lilbooboo_43:
(4, 32761), (Start: 6 @32803 has 3 MA's), (13, 32824), (16, 32836), (18, 32842), (26, 32911), (33, 32962),

Gene: Pavo_69 Start: 44132, Stop: 43947, Start Num: 8
Candidate Starts for Pavo_69:
(Start: 8 @44132 has 8 MA's), (18, 44096), (33, 43976),

Gene: Ponzi_11 Start: 7373, Stop: 7191, Start Num: 11
Candidate Starts for Ponzi_11:
(Start: 8 @7385 has 8 MA's), (11, 7373), (18, 7349), (20, 7337), (21, 7322), (27, 7271), (33, 7223),

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

Gene: Rowa_47 Start: 34523, Stop: 34726, Start Num: 5
Candidate Starts for Rowa_47:
(Start: 5 @34523 has 2 MA's), (9, 34538), (18, 34568), (28, 34667), (30, 34676),

Gene: Saftant_65 Start: 44014, Stop: 43835, Start Num: 8
Candidate Starts for Saftant_65:
(2, 44098), (Start: 8 @44014 has 8 MA's), (10, 44005), (Start: 12 @43999 has 1 MA's), (28, 43879), (33, 43864),

Gene: Shawty_42 Start: 32427, Stop: 32624, Start Num: 8
Candidate Starts for Shawty_42:
(Start: 8 @32427 has 8 MA's), (15, 32454), (24, 32526), (29, 32568), (33, 32586),

Gene: TG1_38 Start: 31372, Stop: 31563, Start Num: 8
Candidate Starts for TG1_38:
(Start: 8 @31372 has 8 MA's), (23, 31465), (25, 31477), (27, 31486), (28, 31510), (33, 31531),

Gene: Vanseggelen_72 Start: 43995, Stop: 43816, Start Num: 8
Candidate Starts for Vanseggelen_72:
(3, 44058), (Start: 8 @43995 has 8 MA's), (33, 43845),

Gene: Vash_42 Start: 32602, Stop: 32802, Start Num: 6
Candidate Starts for Vash_42:
(Start: 6 @32602 has 3 MA's), (13, 32623), (16, 32635), (18, 32641), (26, 32710), (33, 32761),