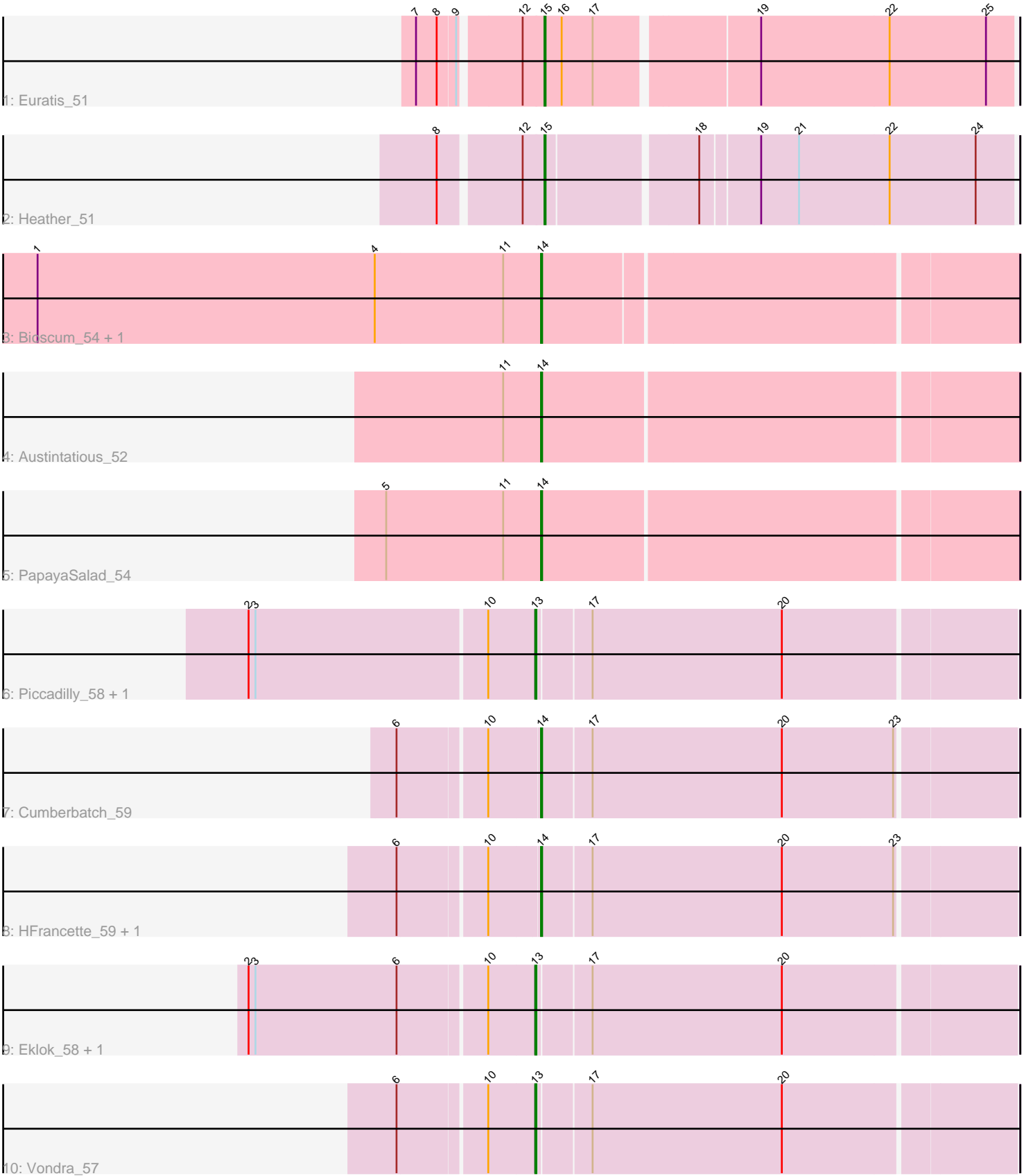# Pham 4621

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 4621 Report

This analysis was run 04/28/24 on database version 559.

Pham number 4621 has 14 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Euratis_51
• Track 2 : Heather_51
• Track 3 : Bioscum_54, Ididsumtinwong_55
• Track 4 : Austintatious_52
• Track 5 : PapayaSalad_54
• Track 6 : Piccadilly_58, Eastland_58
• Track 7 : Cumberbatch_59
• Track 8 : HFrancette_59, Ignacio_58
• Track 9 : Eklok_58, AxeJC_58
• Track 10 : Vondra_57

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

The start number called the most often in the published annotations is 14, it was called in 7 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Austintatious_52, Bioscum_54, Cumberbatch_59, HFrancette_59, Ididsumtinwong_55, Ignacio_58, PapayaSalad_54,

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

Genes that do not have the "Most Annotated" start:
• AxeJC_58, Eastland_58, Eklok_58, Euratis_51, Heather_51, Piccadilly_58, Vondra_57,

Summary by start number:

Start 13:
• Found in 5 of 14 (35.7%) of genes in pham
• Manual Annotations of this start: 5 of 14
• Called 100.0% of time when present

• Phage (with cluster) where this start called: AxeJC_58 (BP), Eastland_58 (BP), Eklok_58 (BP), Piccadilly_58 (BP), Vondra_57 (BP),

Start 14:
• Found in 7 of 14 (50.0%) of genes in pham
• Manual Annotations of this start: 7 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Austintatious_52 (BC3), Bioscum_54 (BC3), Cumberbatch_59 (BP), HFrancette_59 (BP), Ididsumtinwong_55 (BC3), Ignacio_58 (BP), PapayaSalad_54 (BC3),

Start 15:
• Found in 2 of 14 (14.3%) 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: Euratis_51 (BB1), Heather_51 (BB2),

Summary by clusters:

There are 4 clusters represented in this pham: BP, BB2, BB1, BC3,

Info for manual annotations of cluster BB1:
•Start number 15 was manually annotated 1 time for cluster BB1.

Info for manual annotations of cluster BB2:
•Start number 15 was manually annotated 1 time for cluster BB2.

Info for manual annotations of cluster BC3:
•Start number 14 was manually annotated 4 times for cluster BC3.

Info for manual annotations of cluster BP:
•Start number 13 was manually annotated 5 times for cluster BP.
•Start number 14 was manually annotated 3 times for cluster BP.

Gene Information:
Gene: Austintatious_52 Start: 35203, Stop: 35604, Start Num: 14
Candidate Starts for Austintatious_52:
(11, 35170), (Start: 14 @35203 has 7 MA's),

Gene: AxeJC_58 Start: 37215, Stop: 37616, Start Num: 13
Candidate Starts for AxeJC_58:
(2, 36975), (3, 36981), (6, 37104), (10, 37176), (Start: 13 @37215 has 5 MA's), (17, 37257), (20, 37422),

Gene: Bioscum_54 Start: 36823, Stop: 37221, Start Num: 14
Candidate Starts for Bioscum_54:
(1, 36385), (4, 36679), (11, 36790), (Start: 14 @36823 has 7 MA's),

Gene: Cumberbatch_59 Start: 37016, Stop: 37417, Start Num: 14
Candidate Starts for Cumberbatch_59:

(6, 36902), (10, 36974), (Start: 14 @37016 has 7 MA's), (17, 37058), (20, 37223), (23, 37319),

Gene: Eastland_58 Start: 36995, Stop: 37396, Start Num: 13
Candidate Starts for Eastland_58:
(2, 36755), (3, 36761), (10, 36956), (Start: 13 @36995 has 5 MA's), (17, 37037), (20, 37202),

Gene: Eklok_58 Start: 36859, Stop: 37260, Start Num: 13
Candidate Starts for Eklok_58:
(2, 36619), (3, 36625), (6, 36748), (10, 36820), (Start: 13 @36859 has 5 MA's), (17, 36901), (20, 37066),

Gene: Euratis_51 Start: 35221, Stop: 35613, Start Num: 15
Candidate Starts for Euratis_51:
(7, 35128), (8, 35146), (9, 35161), (12, 35209), (Start: 15 @35221 has 2 MA's), (16, 35236), (17, 35263), (19, 35395), (22, 35506), (25, 35590),

Gene: HFrancette_59 Start: 37685, Stop: 38086, Start Num: 14
Candidate Starts for HFrancette_59:
(6, 37571), (10, 37643), (Start: 14 @37685 has 7 MA's), (17, 37727), (20, 37892), (23, 37988),

Gene: Heather_51 Start: 36532, Stop: 36921, Start Num: 15
Candidate Starts for Heather_51:
(8, 36454), (12, 36520), (Start: 15 @36532 has 2 MA's), (18, 36655), (19, 36703), (21, 36736), (22, 36814), (24, 36889),

Gene: Ididsumtinwong_55 Start: 36810, Stop: 37208, Start Num: 14
Candidate Starts for Ididsumtinwong_55:
(1, 36372), (4, 36666), (11, 36777), (Start: 14 @36810 has 7 MA's),

Gene: Ignacio_58 Start: 37588, Stop: 37989, Start Num: 14
Candidate Starts for Ignacio_58:
(6, 37474), (10, 37546), (Start: 14 @37588 has 7 MA's), (17, 37630), (20, 37795), (23, 37891),

Gene: PapayaSalad_54 Start: 37401, Stop: 37802, Start Num: 14
Candidate Starts for PapayaSalad_54:
(5, 37266), (11, 37368), (Start: 14 @37401 has 7 MA's),

Gene: Piccadilly_58 Start: 36994, Stop: 37395, Start Num: 13
Candidate Starts for Piccadilly_58:
(2, 36754), (3, 36760), (10, 36955), (Start: 13 @36994 has 5 MA's), (17, 37036), (20, 37201),

Gene: Vondra_57 Start: 36579, Stop: 36980, Start Num: 13
Candidate Starts for Vondra_57:
(6, 36468), (10, 36540), (Start: 13 @36579 has 5 MA's), (17, 36621), (20, 36786),