

**Genome mining of biosynthetic and chemotherapeutic gene clusters  
in *Streptomyces* bacteria**

**Supplementary information**

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## Supplementary information

**Supplementary Table S1.** Accession numbers of the 1,110 *Streptomyces* genomes used in this study.

**Supplementary Table S2.** List of CGCs used in Figure 3. Sequences were obtained from DoBISCUIT.

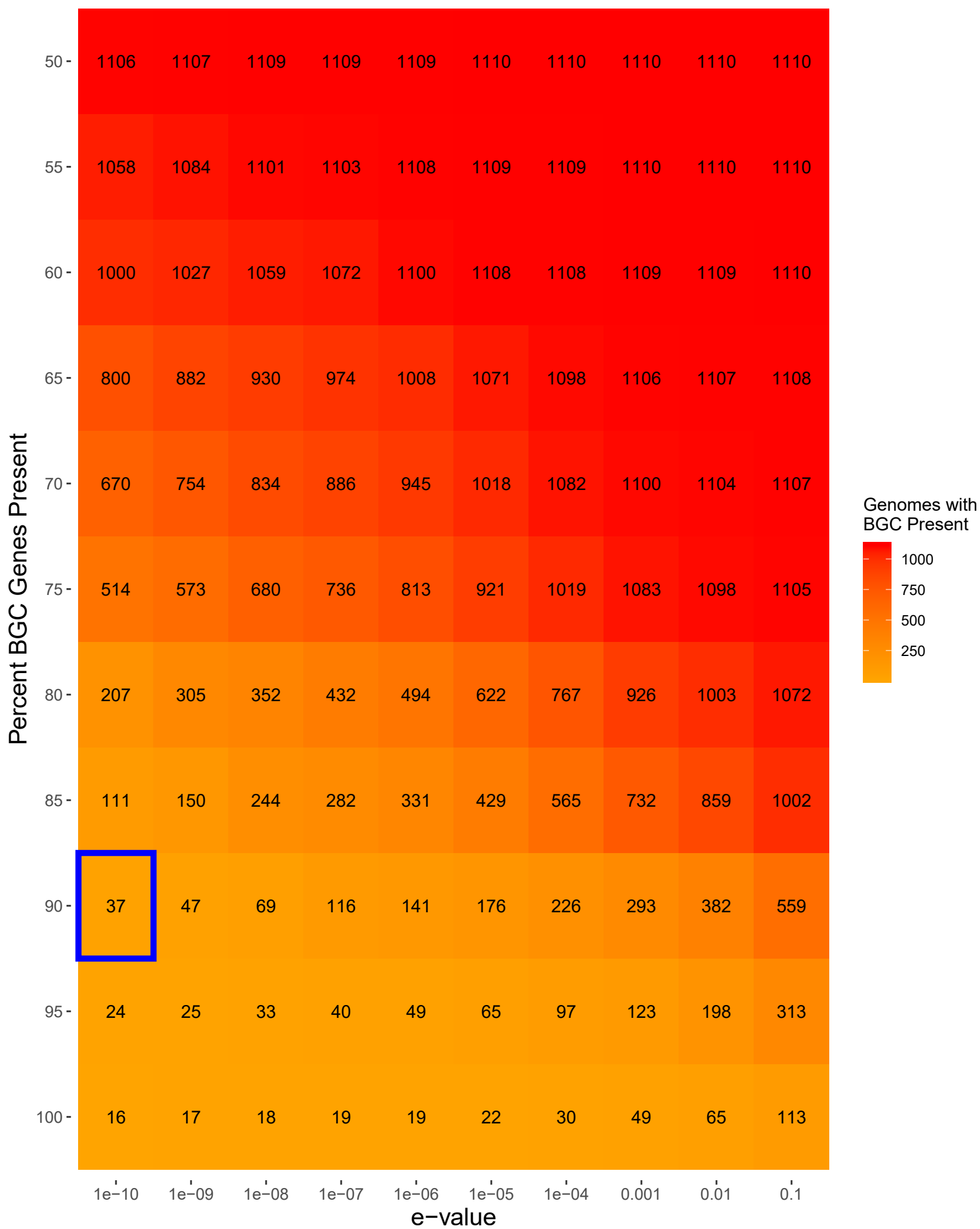
**Supplementary Table S3.** List of individual genes per CGC and BLASTX results for individual genes in each CGC. Numbers represent the percentage sequence similarity to the query sequence.

**Supplementary Dataset S4.** Sequence alignment of *rpoB*

**Supplementary Dataset S5.** *rpoB* phylogenetic tree with bootstrap values

**Supplementary Figure S1.** Number of CGCs identified using different threshold values of cluster completeness and e-values. Numbers in blue squares are those that were included in the study.

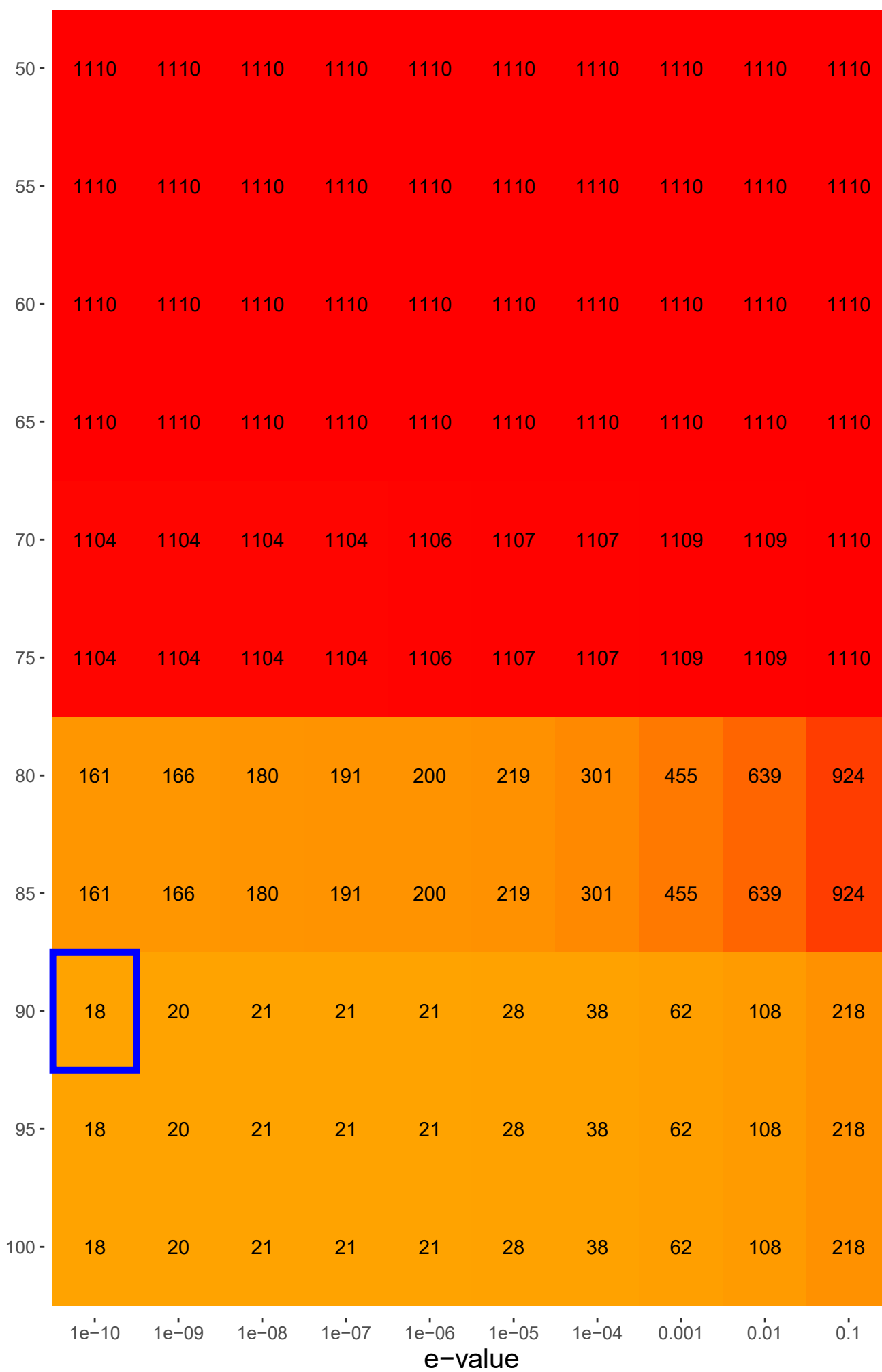
# Aclacinomycin\_A



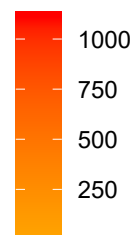


# Aureothin

Percent BGC Genes Present



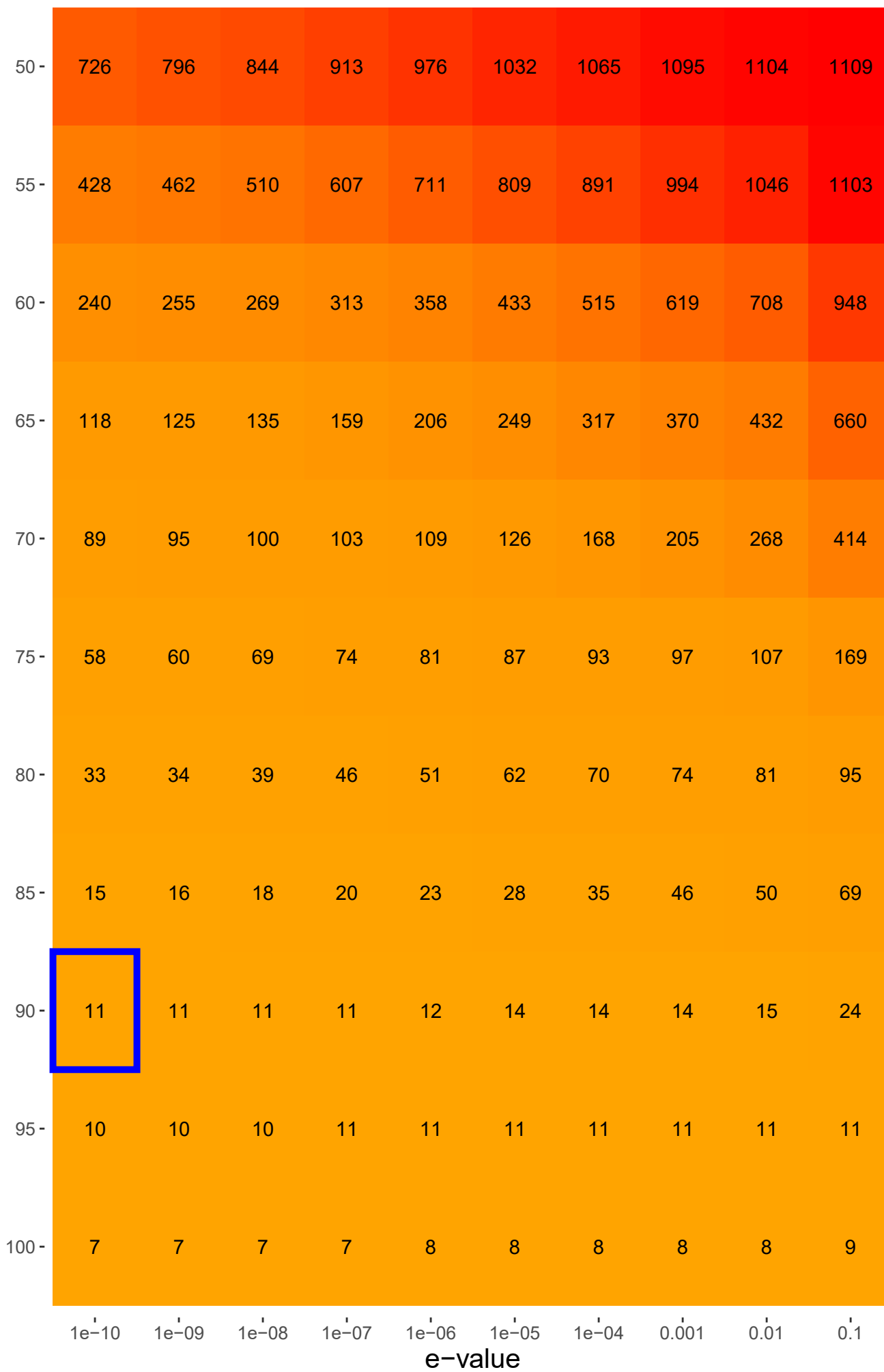
Genomes with BGC Present



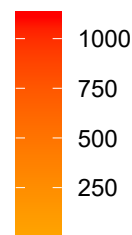


# C\_1027

Percent BGC Genes Present



Genomes with BGC Present

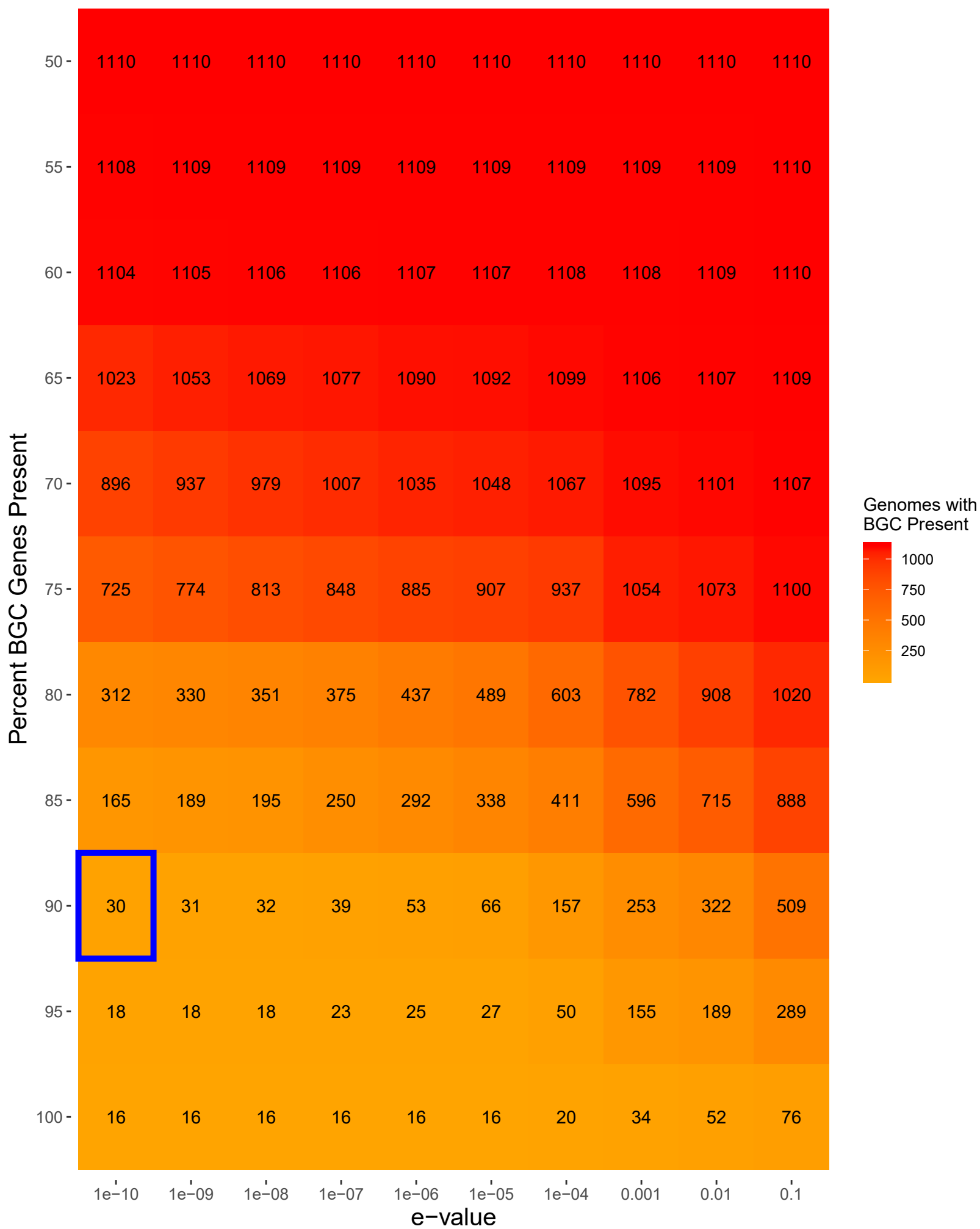






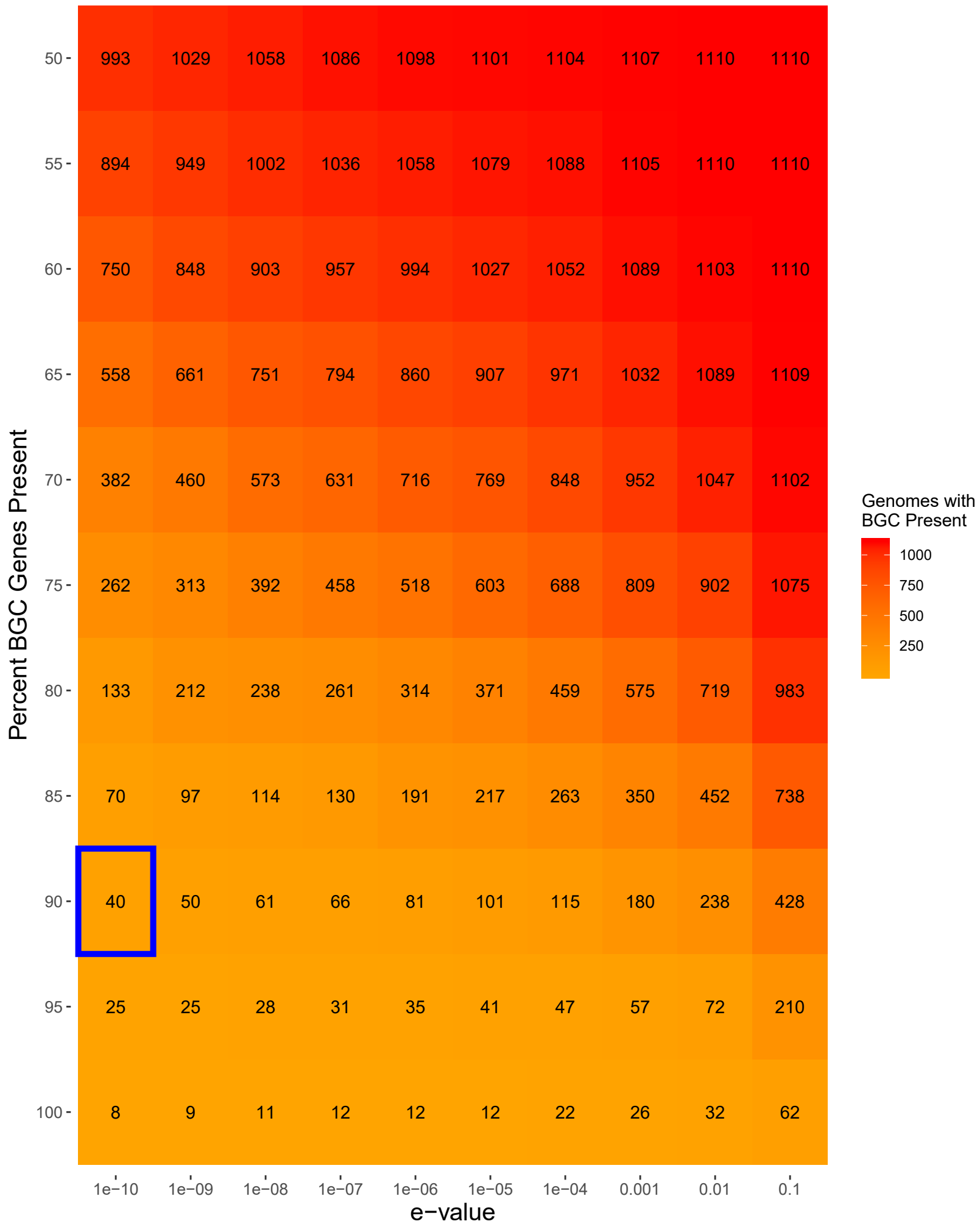


# Concanamycin\_A

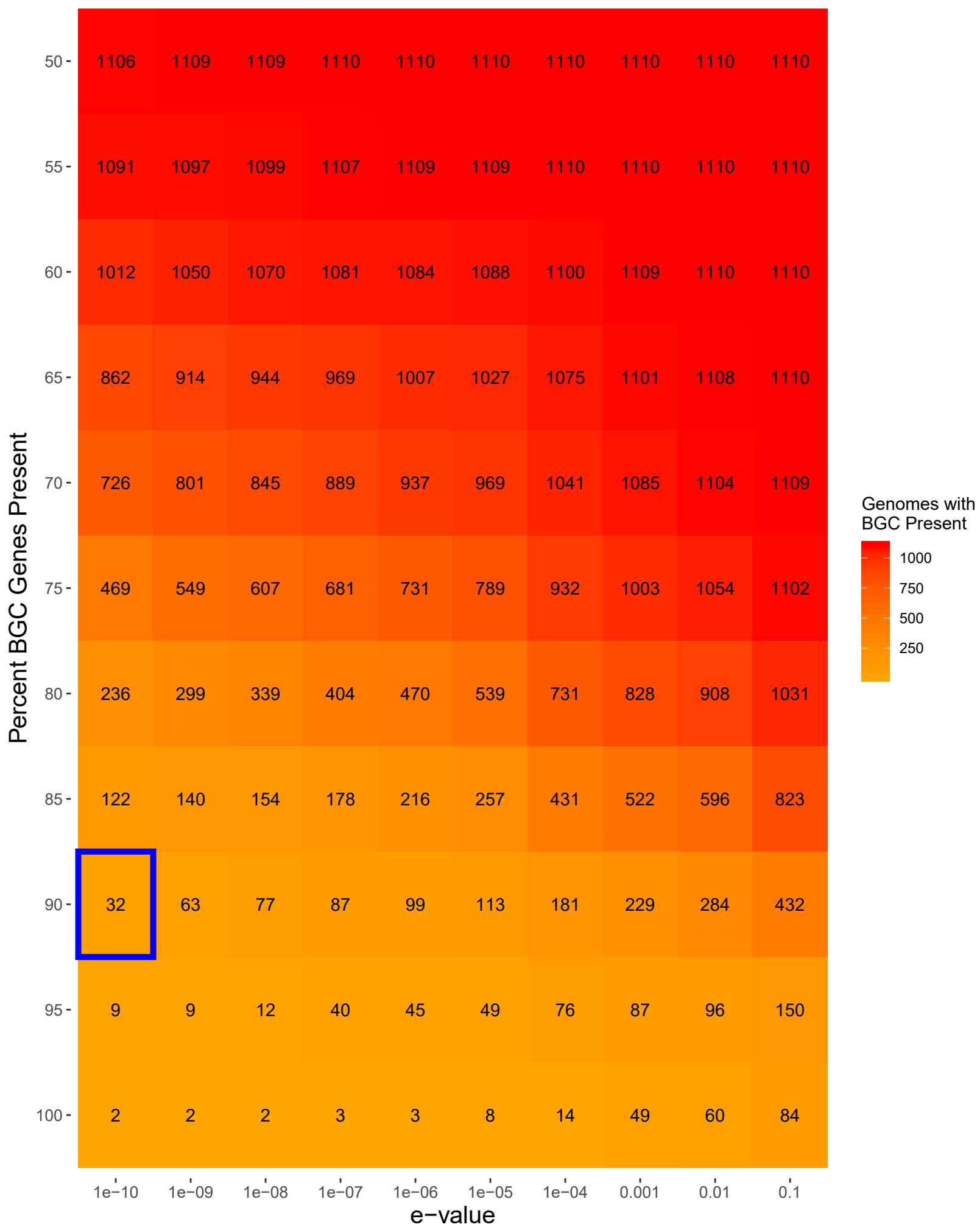




# Daunorubicin



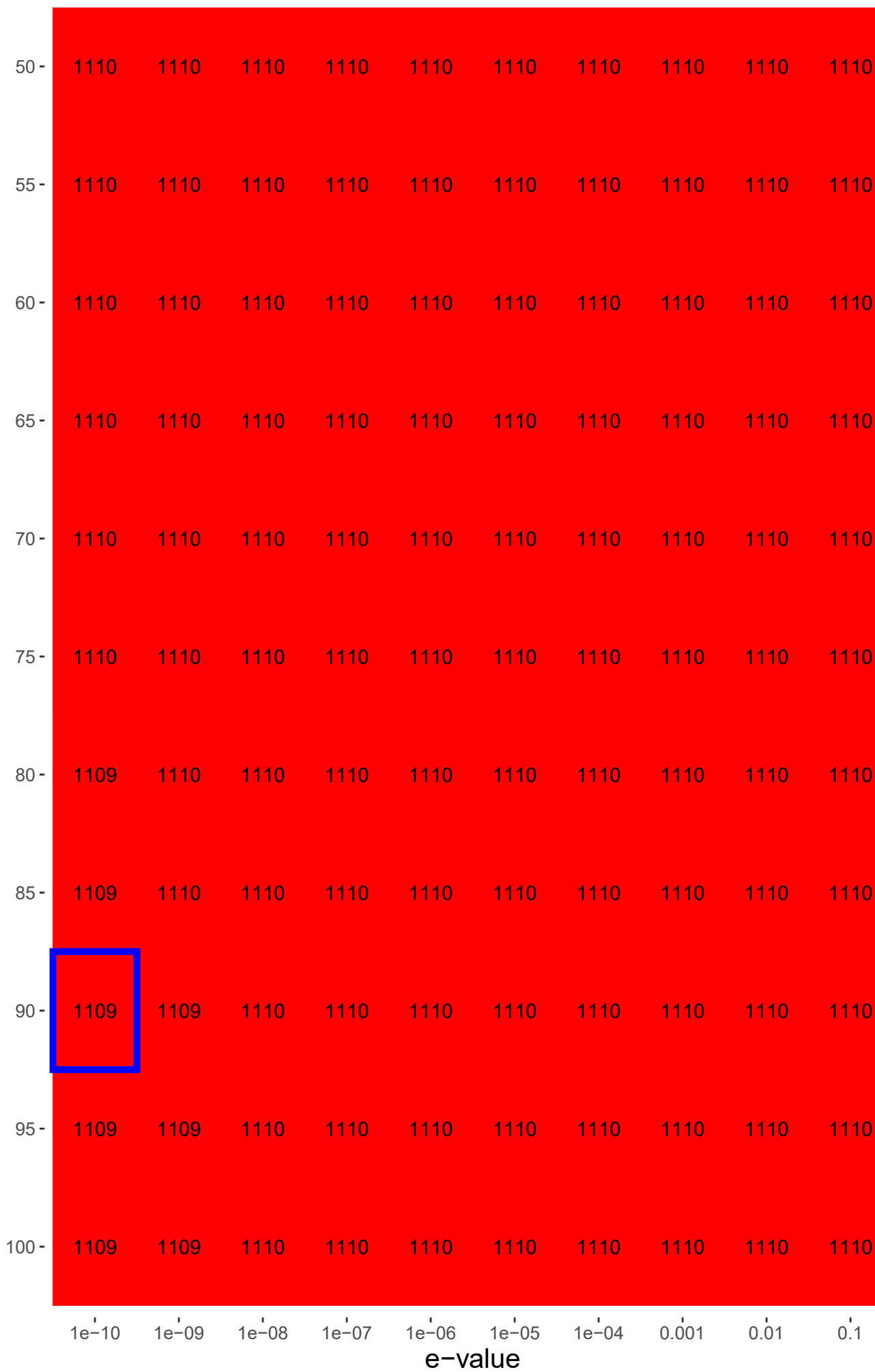
# Doxorubicin



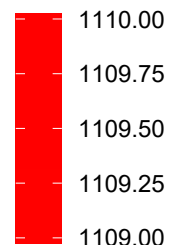


# FD\_891

Percent BGC Genes Present

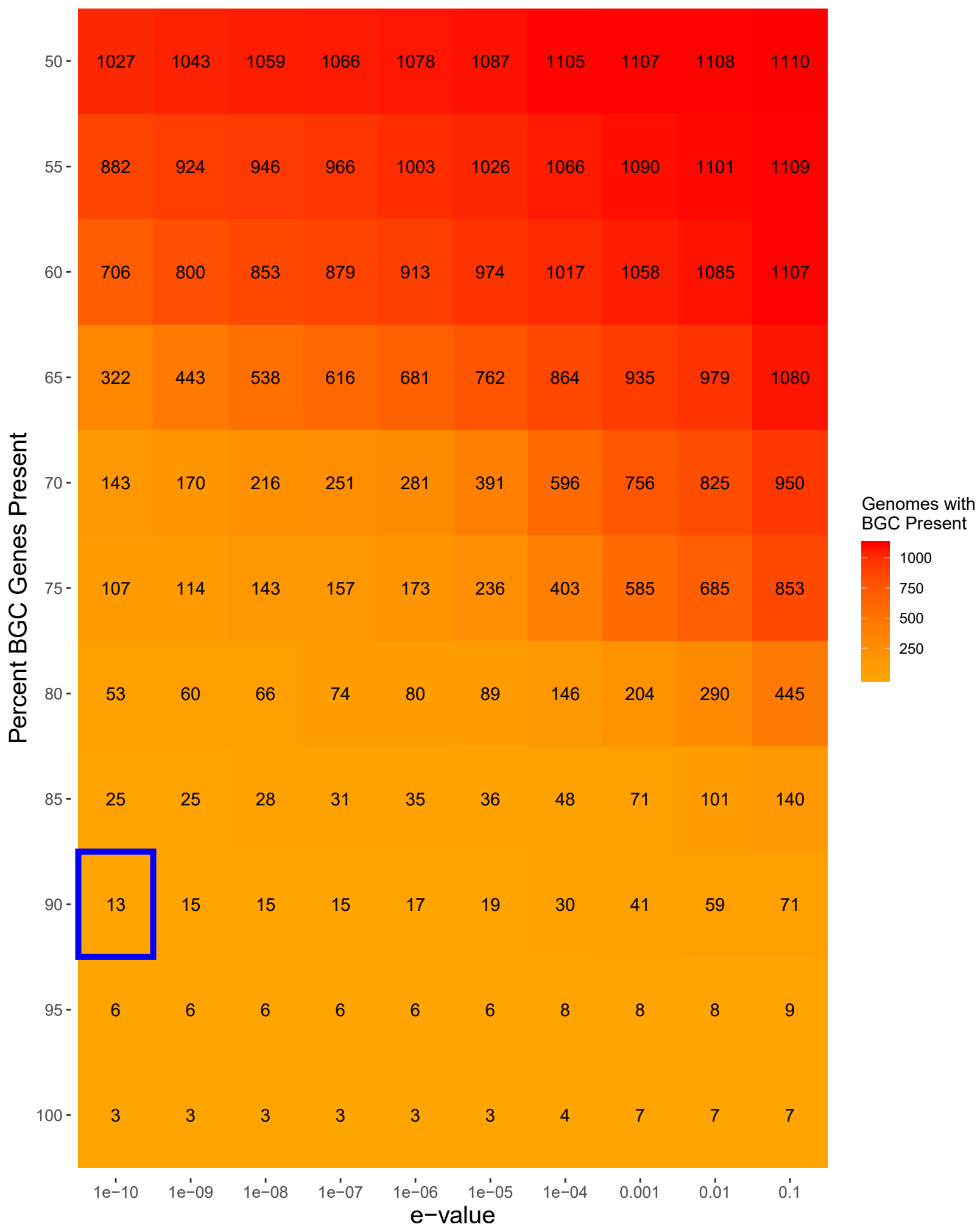


Genomes with BGC Present

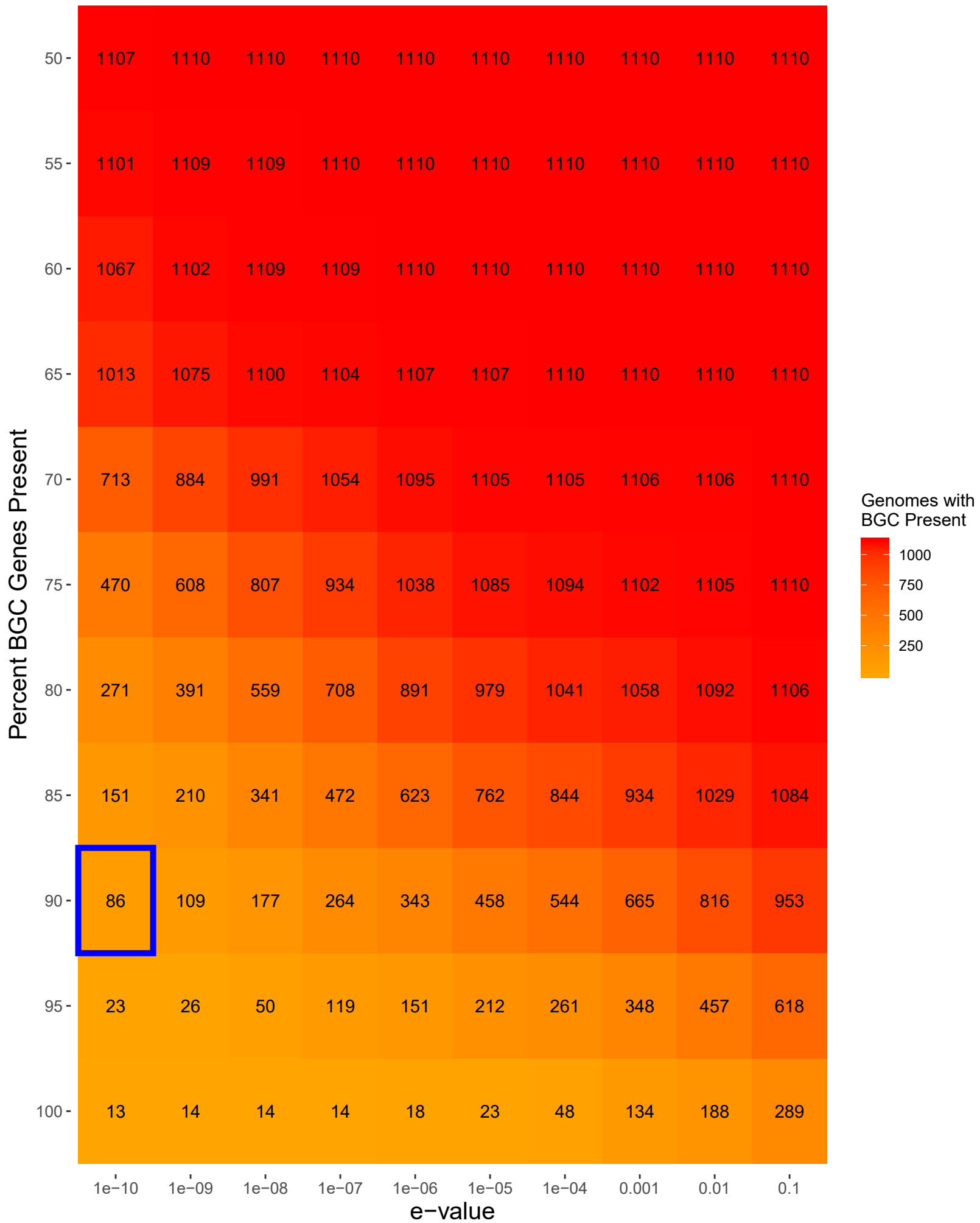




# Fredericamycin

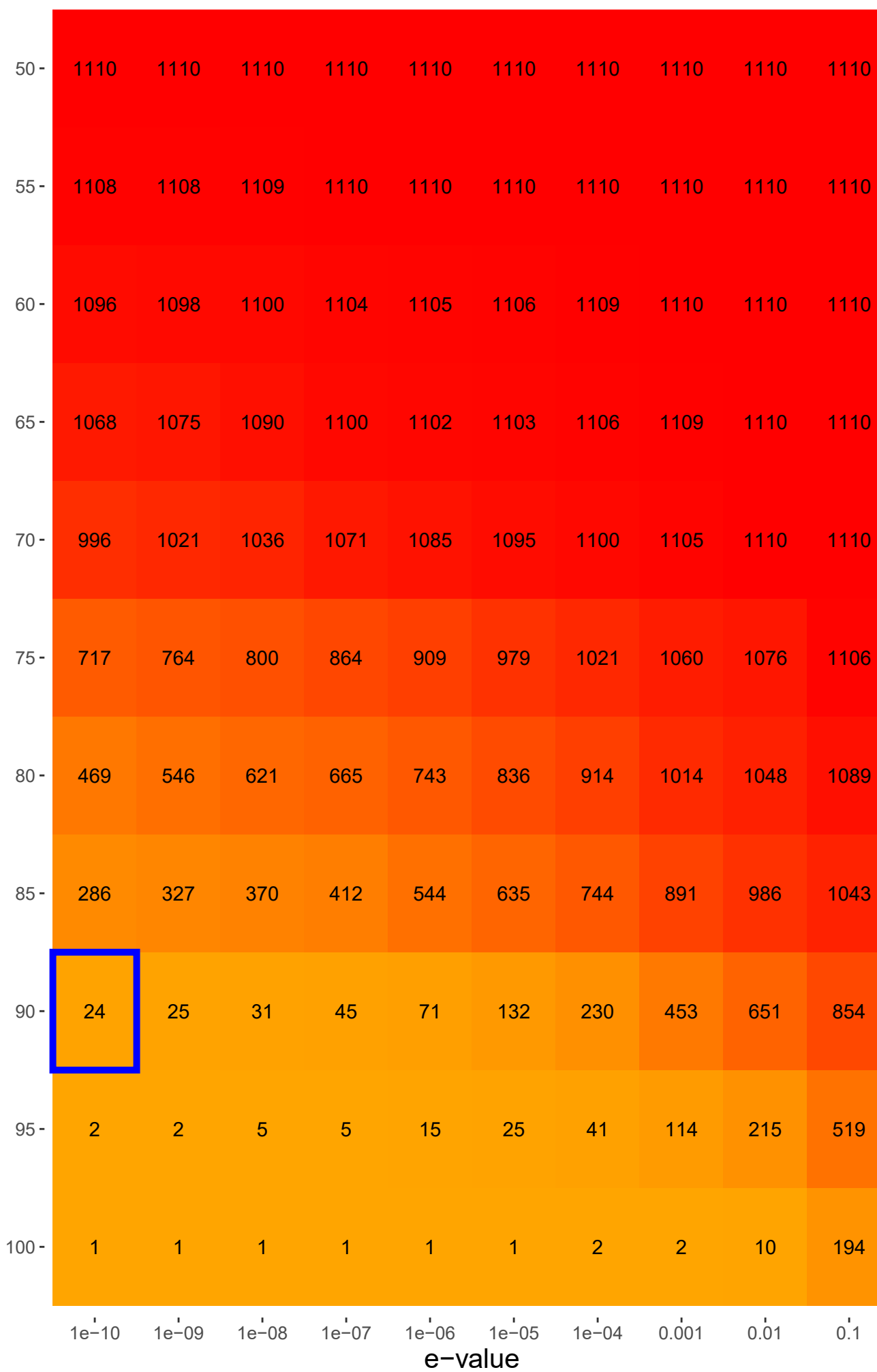


# Geldanamycin

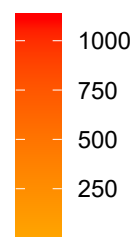


# Gilvocarcin

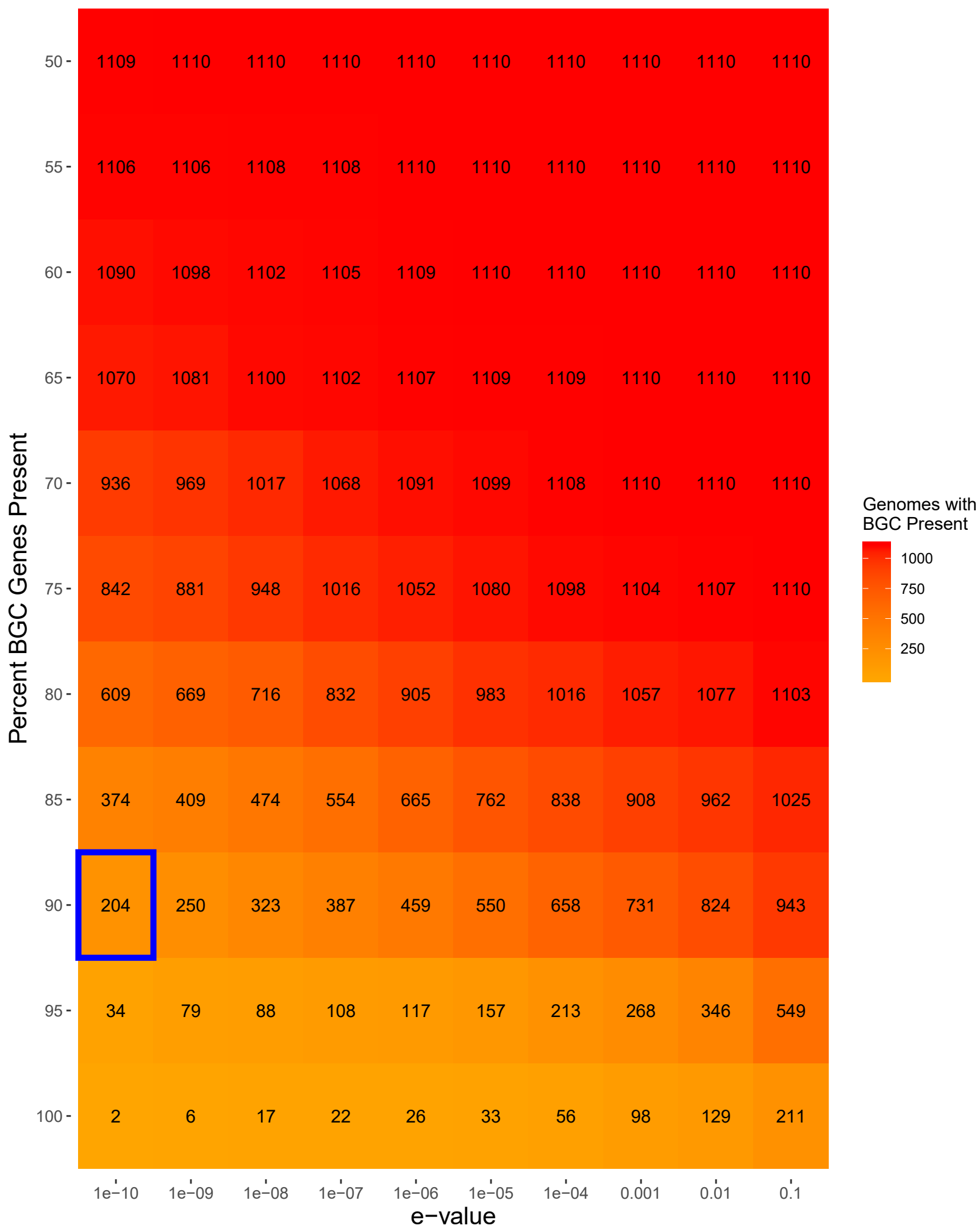
Percent BGC Genes Present



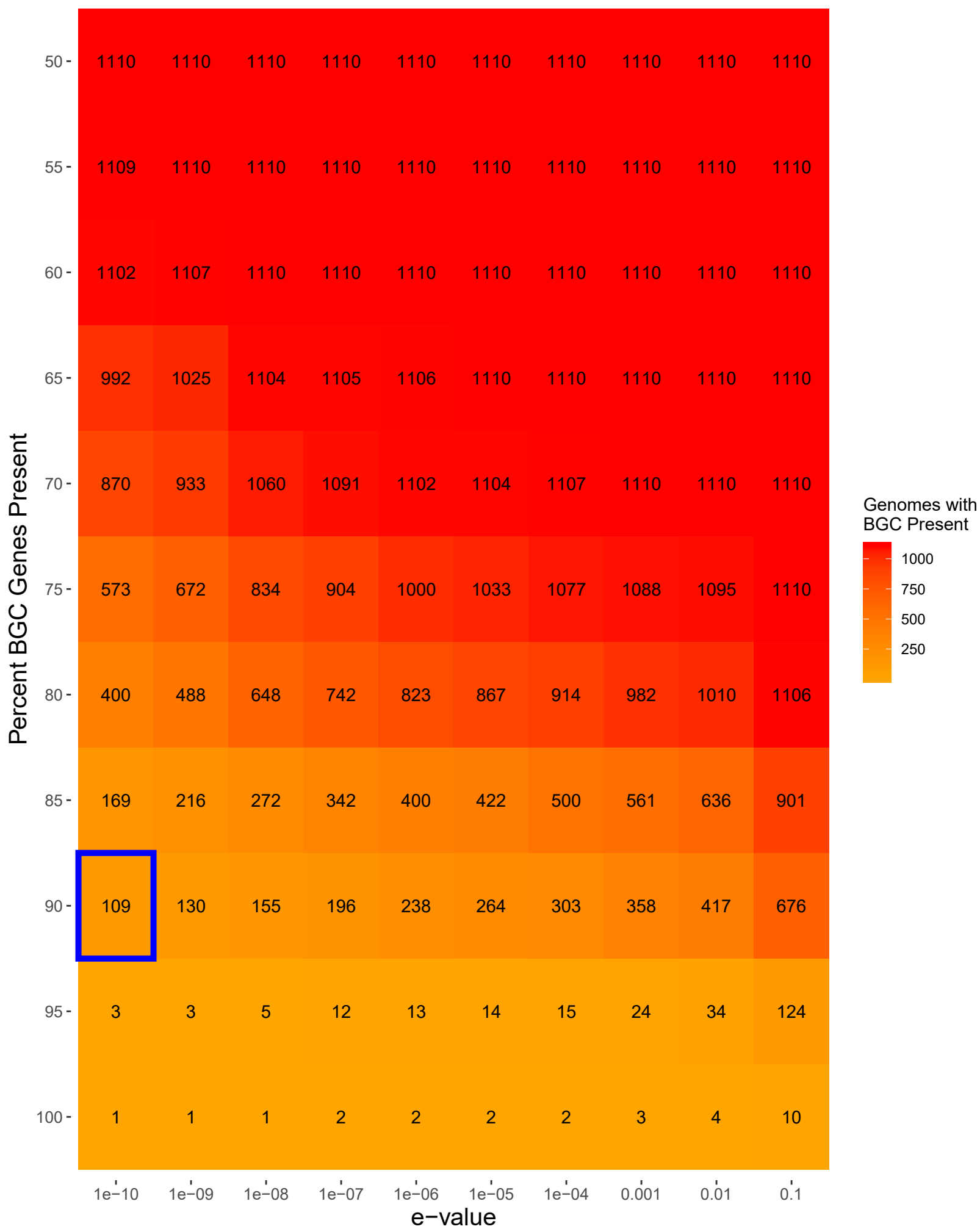
Genomes with BGC Present



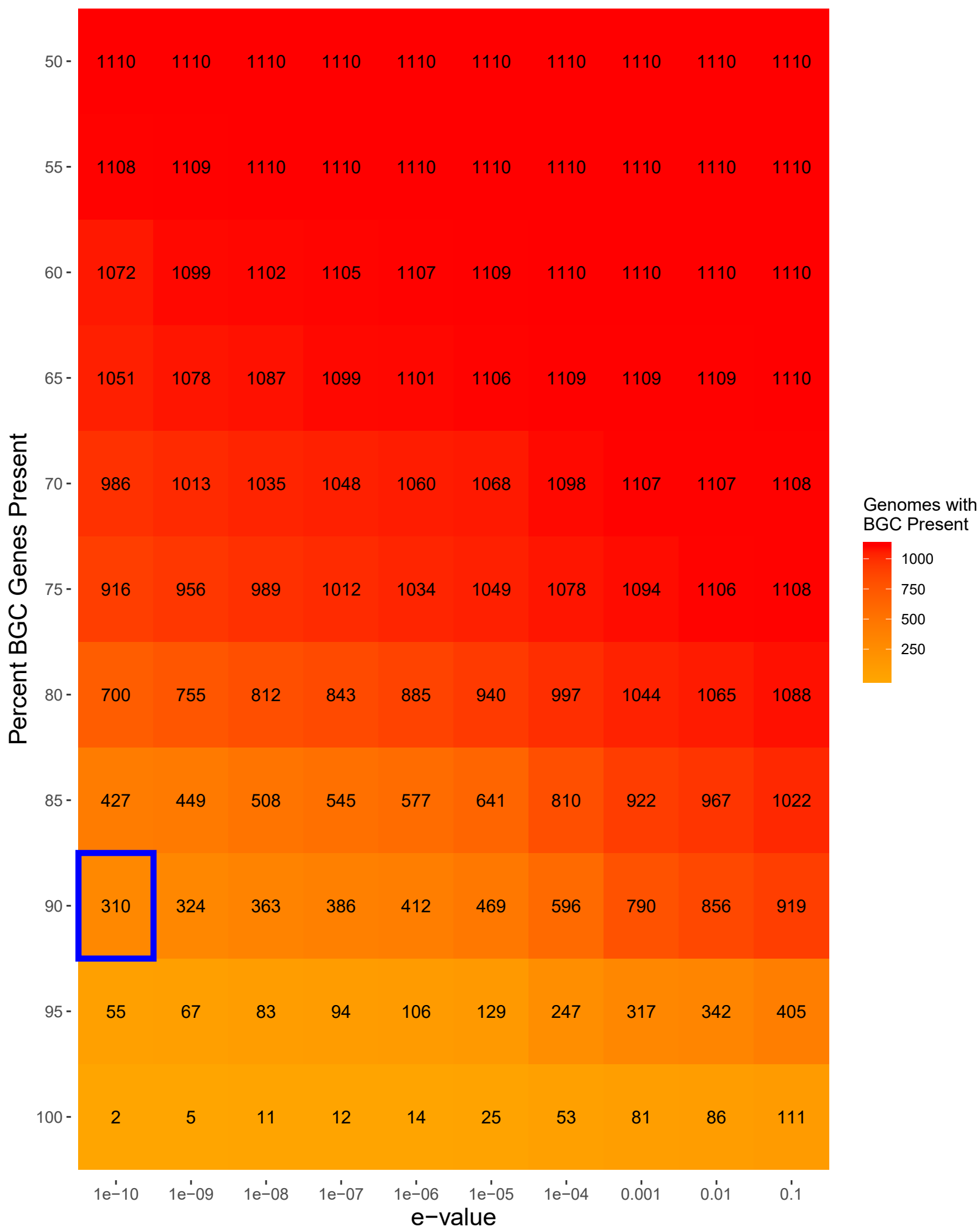
# Hedamycin



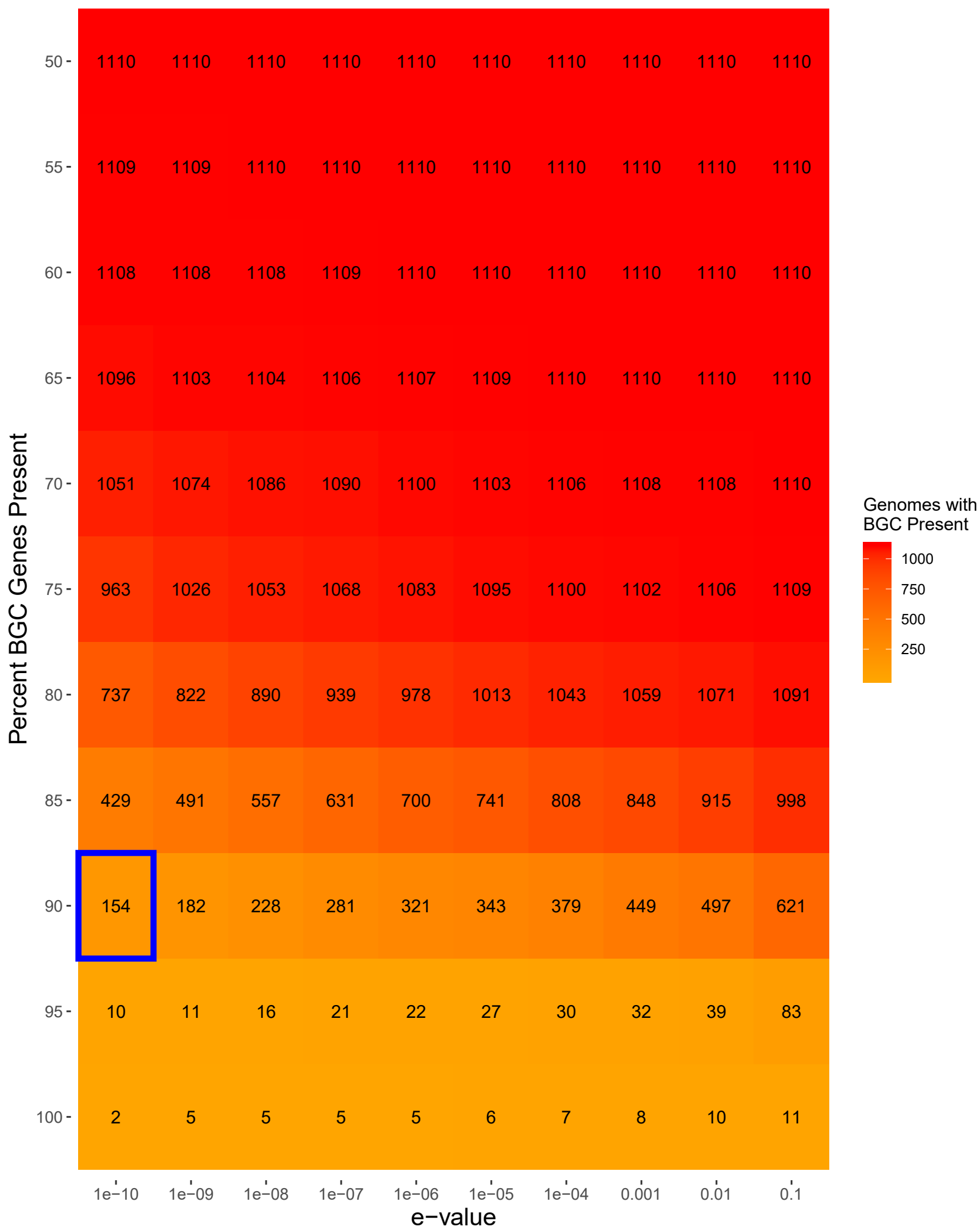
# Herbimycin\_A



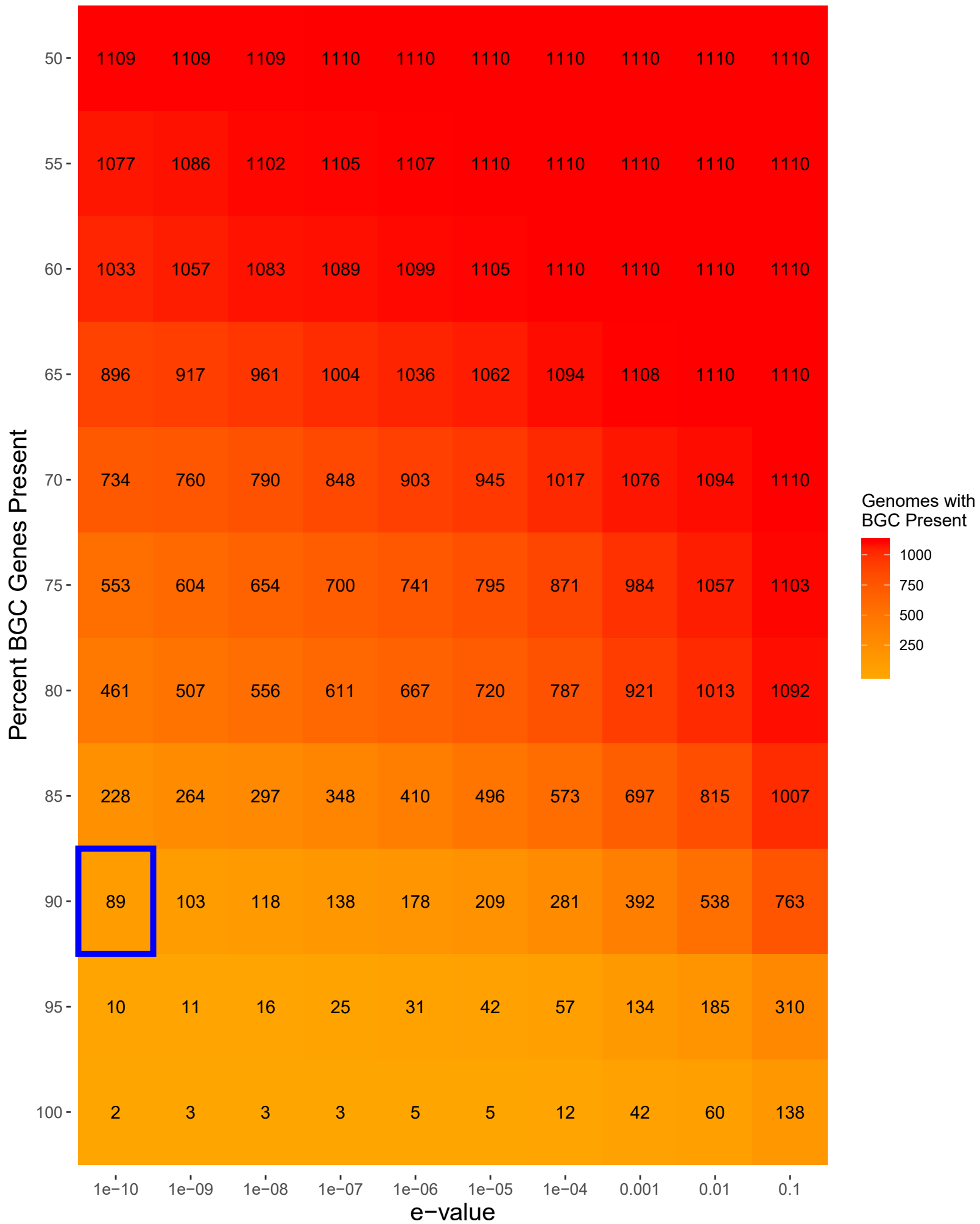
# Landomycin



# Medermycin



# Mithramycin



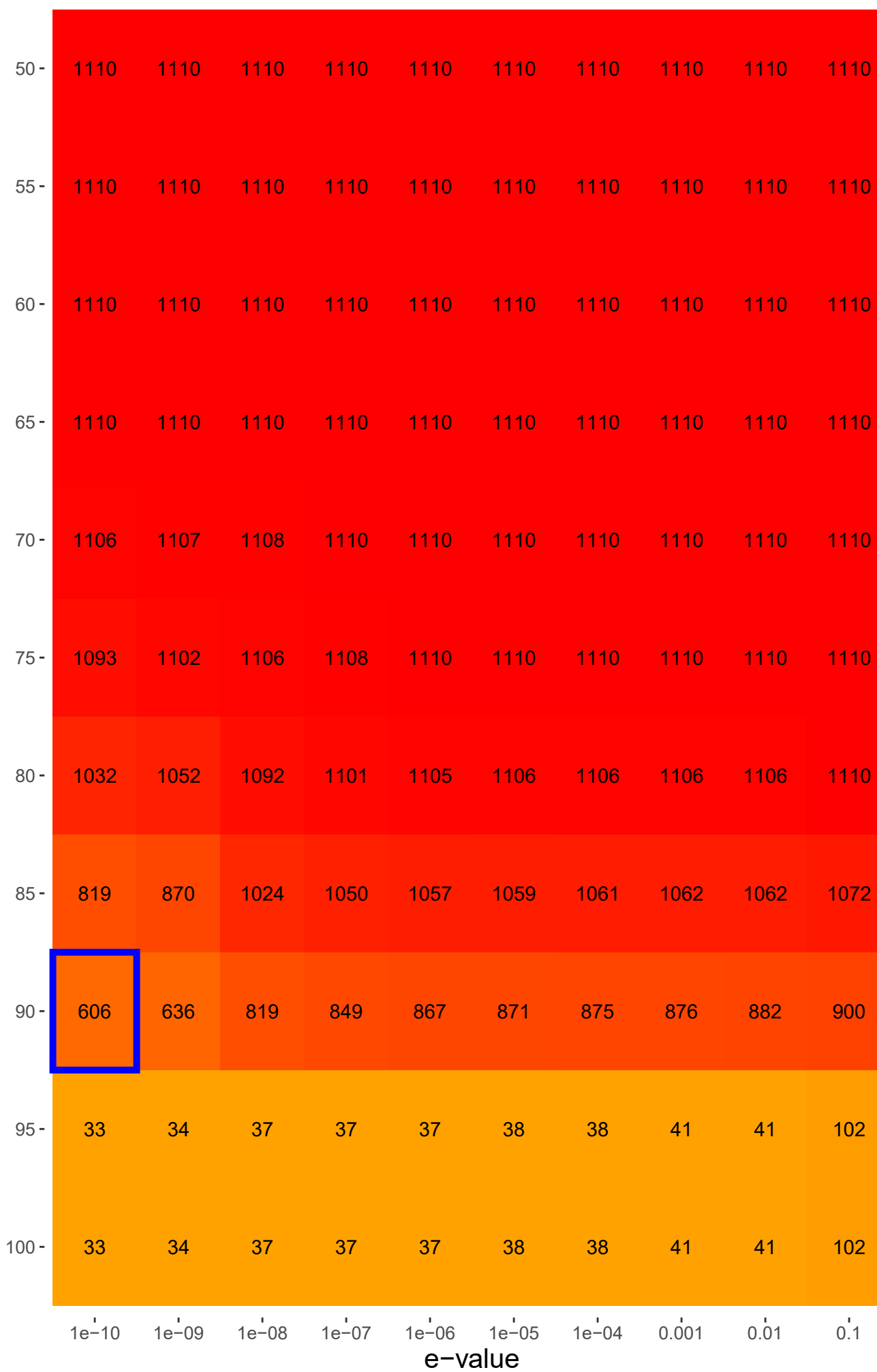




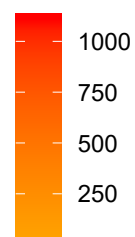


# Oligomycin

Percent BGC Genes Present

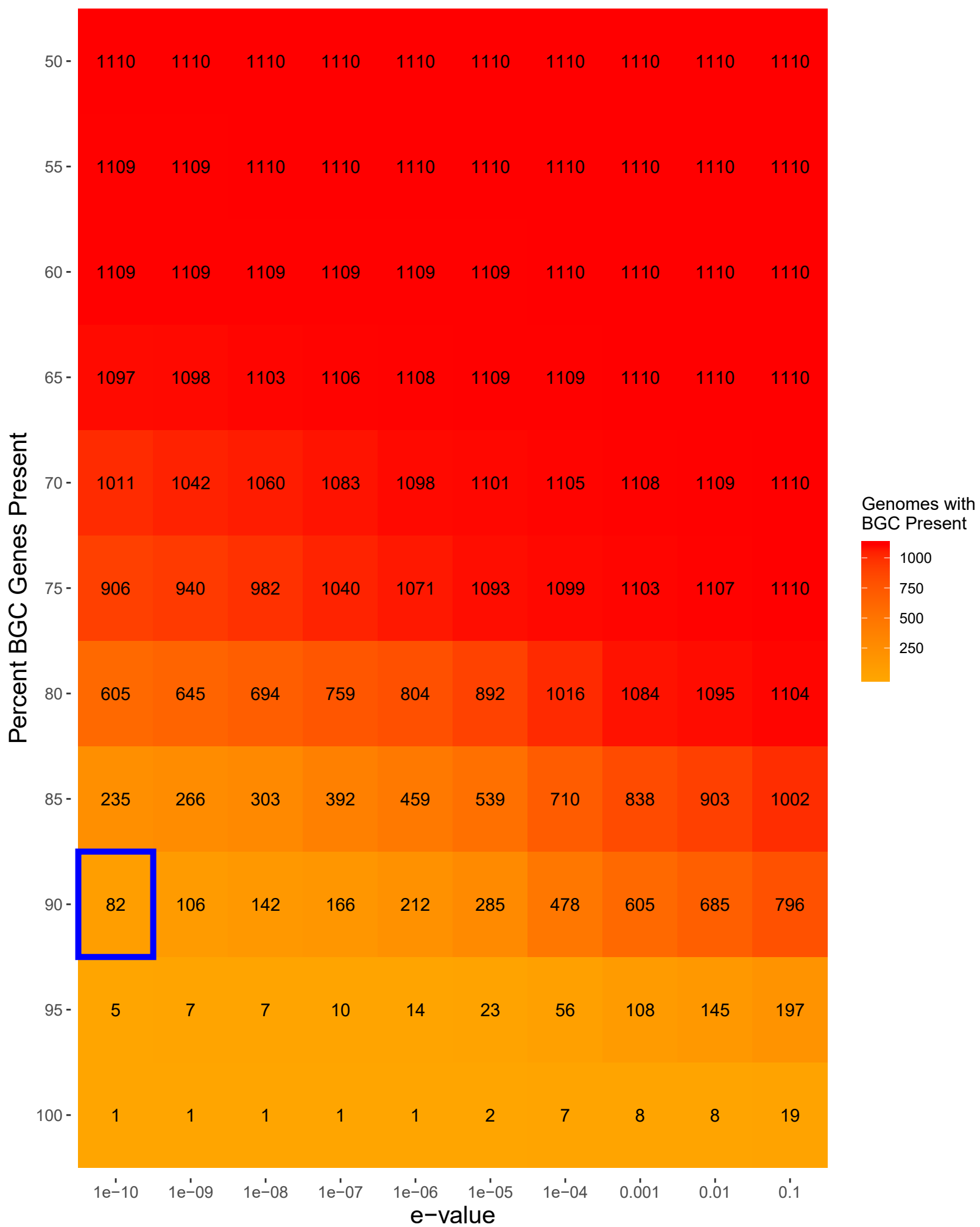


Genomes with BGC Present

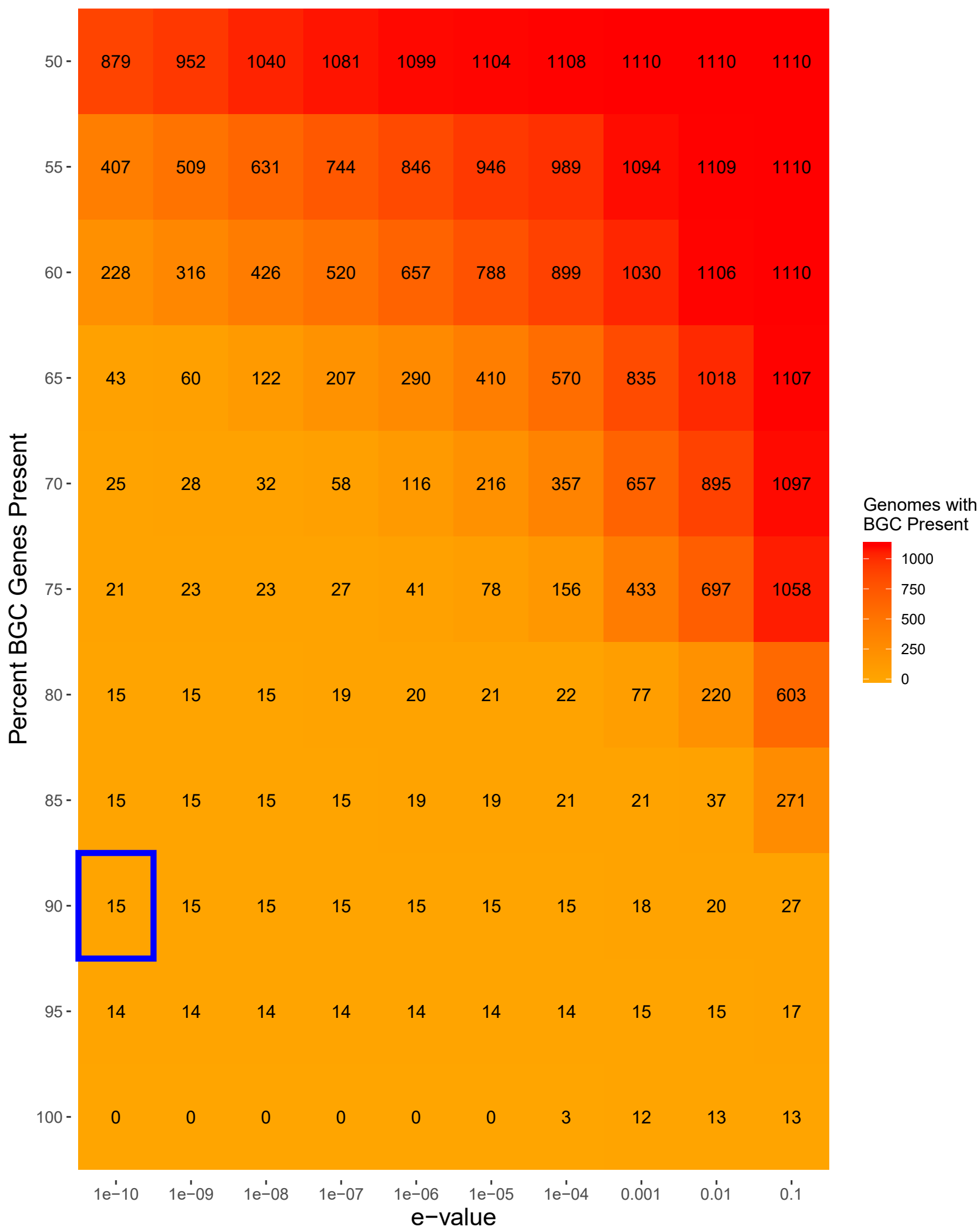




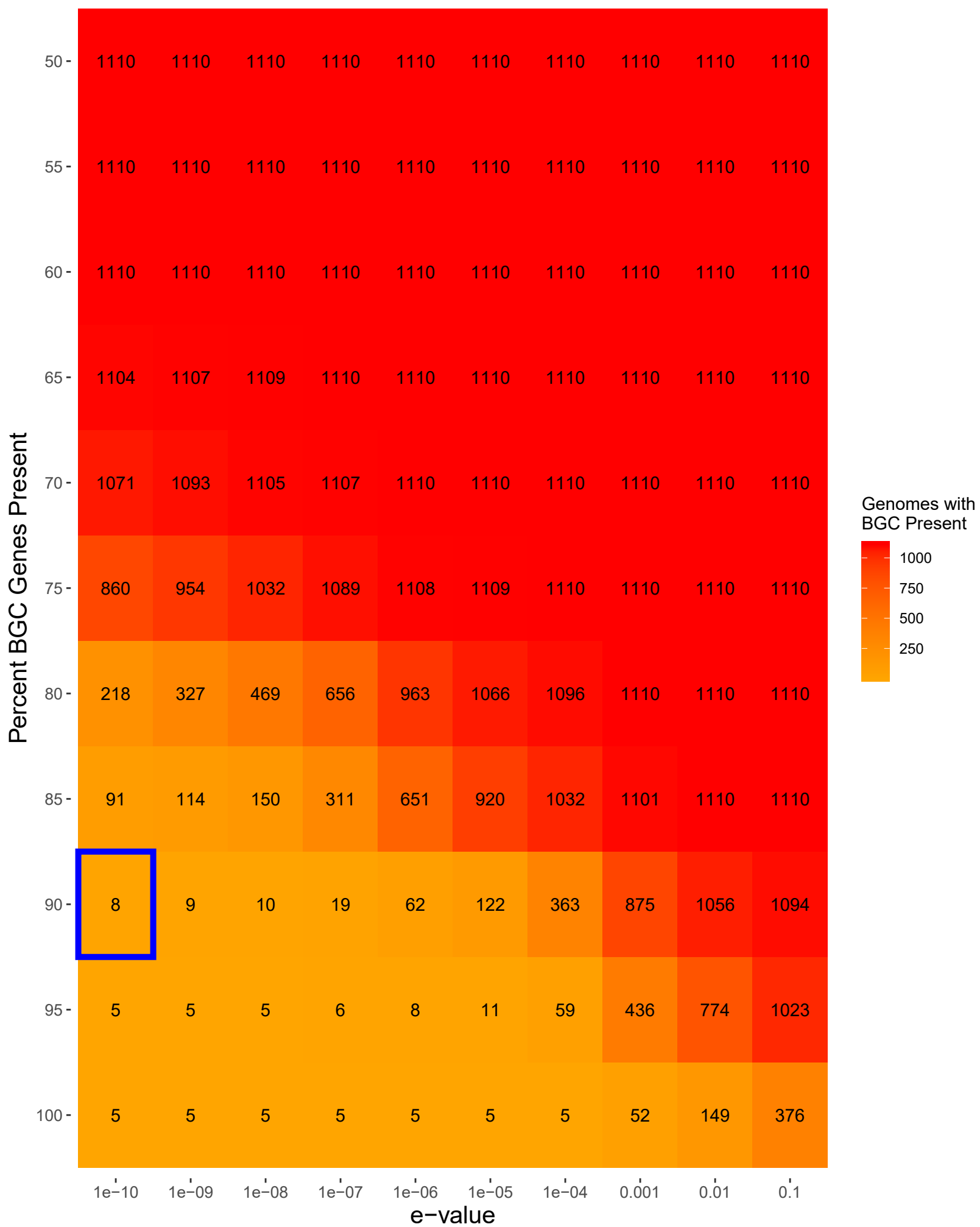
# Oxazolomycin



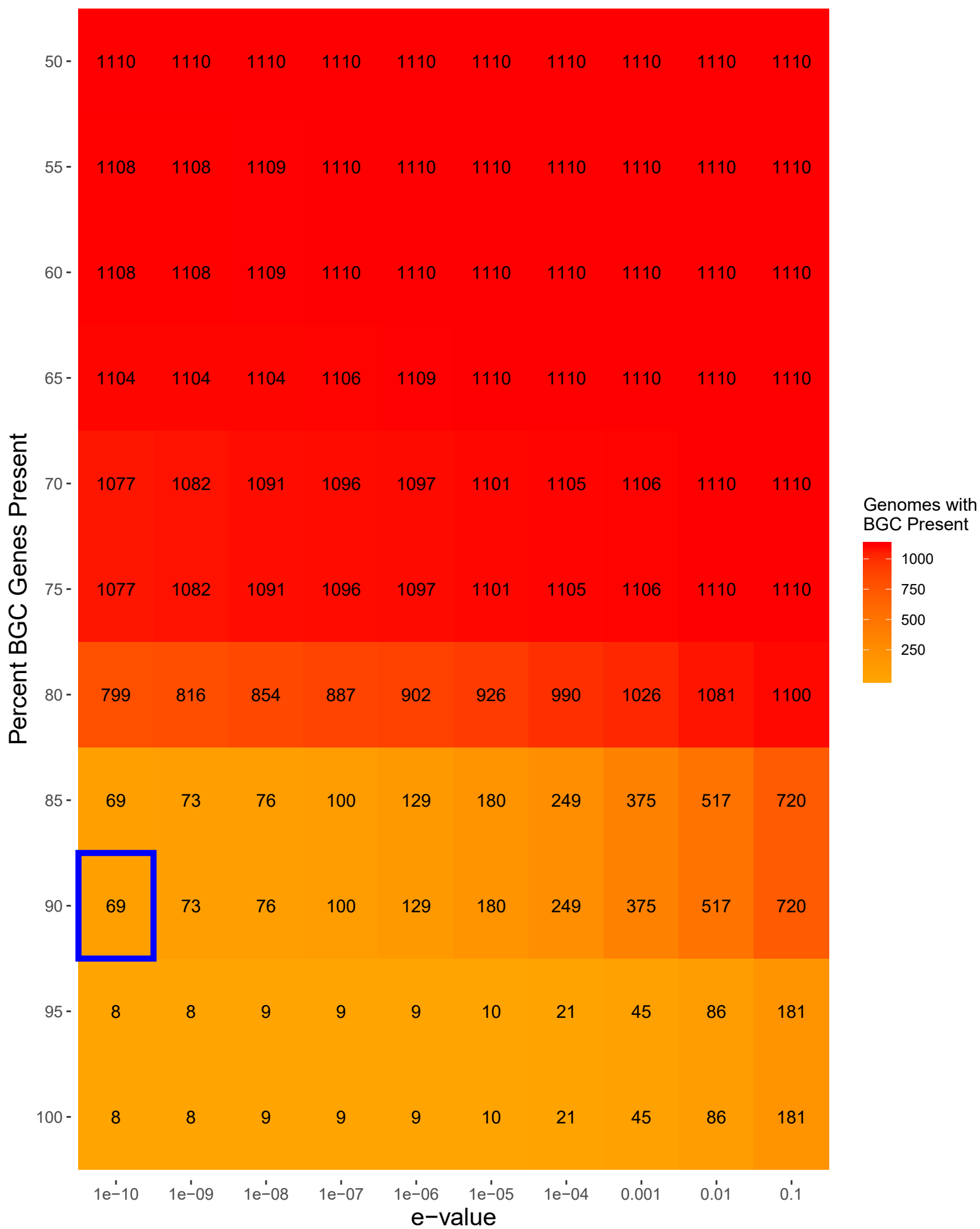
# Pactamycin



# Phoslactomycin



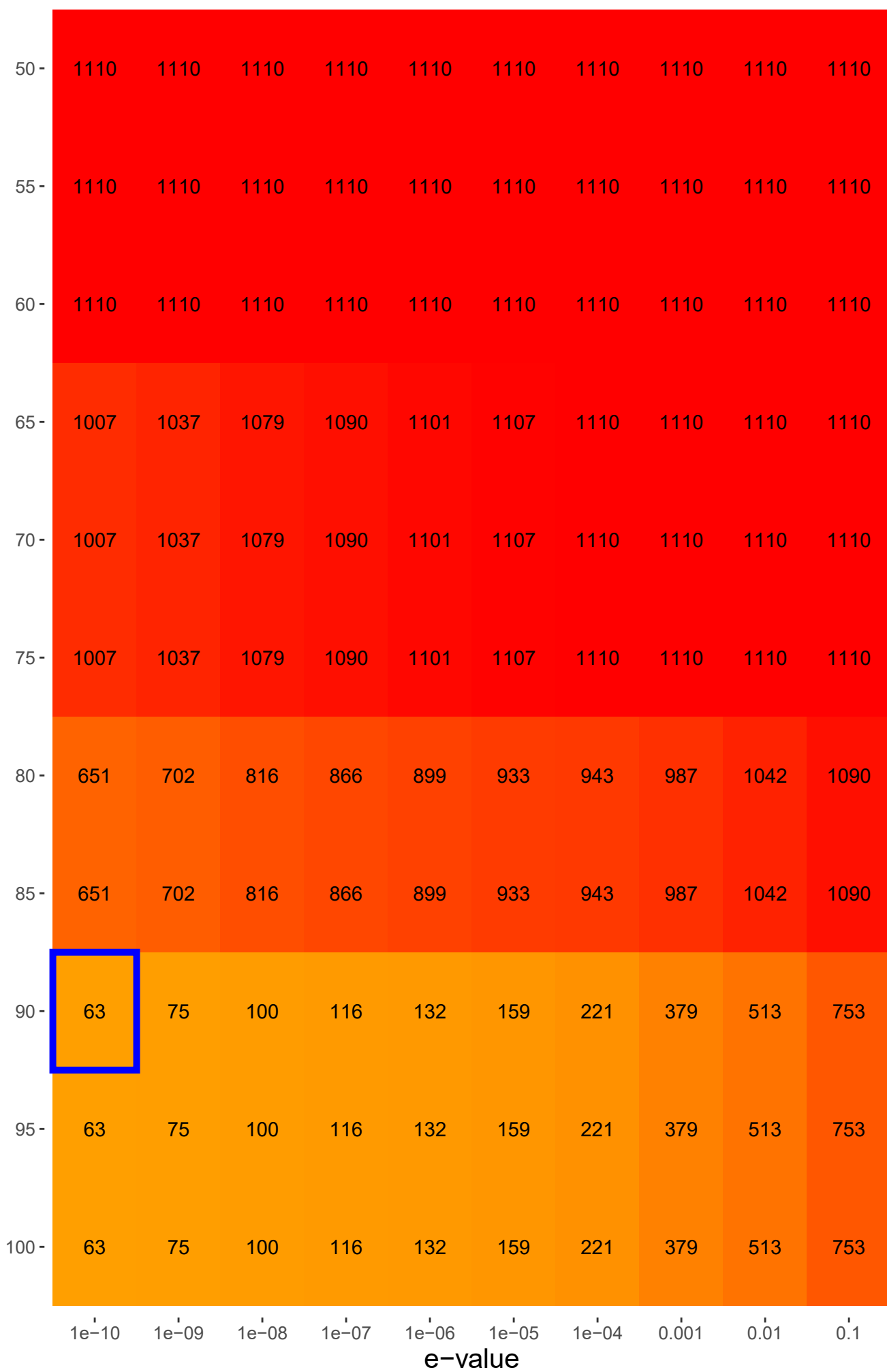
# Piericidin



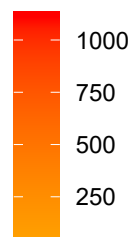


# Pladienolide

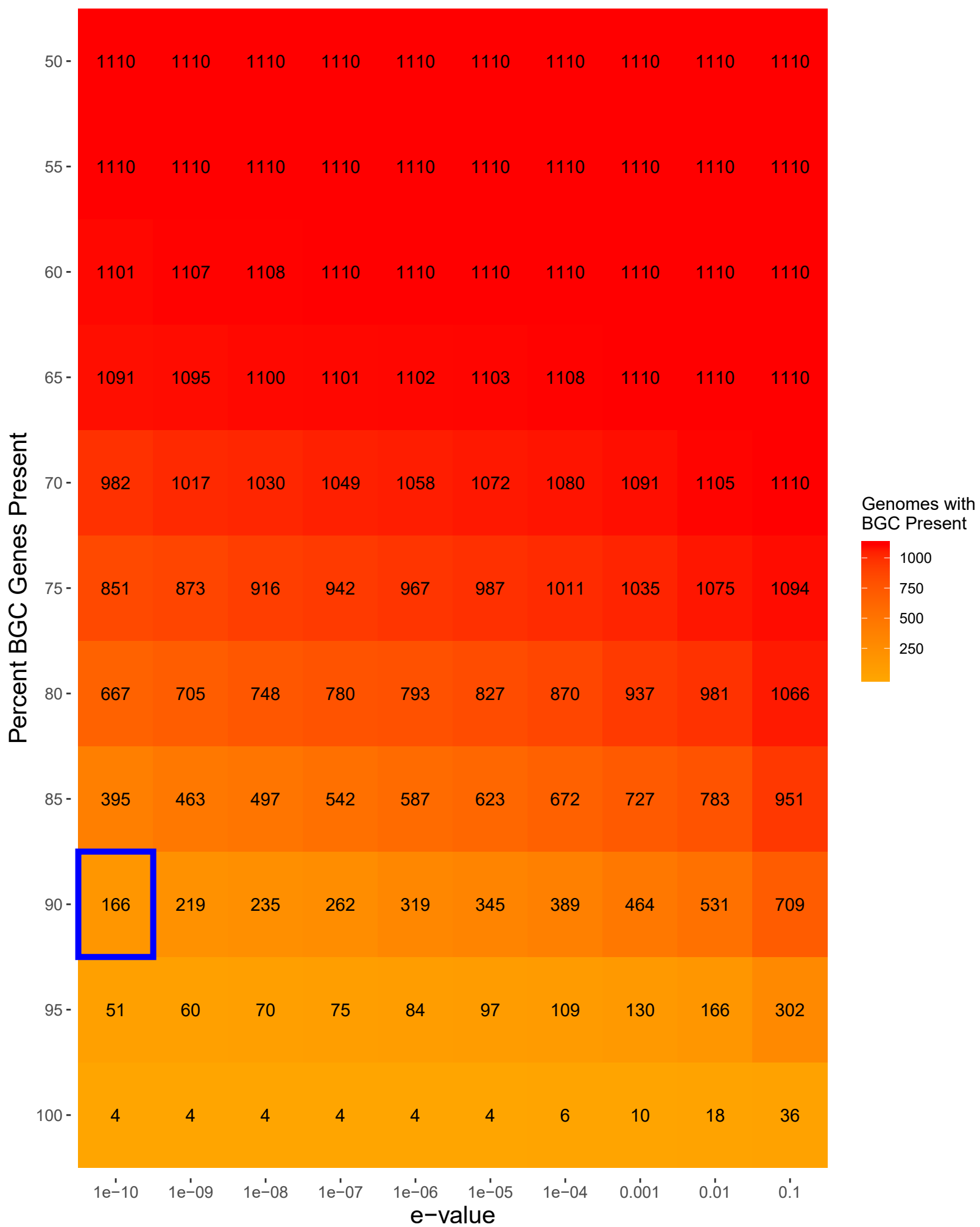
Percent BGC Genes Present



Genomes with BGC Present



# Polyketomycin

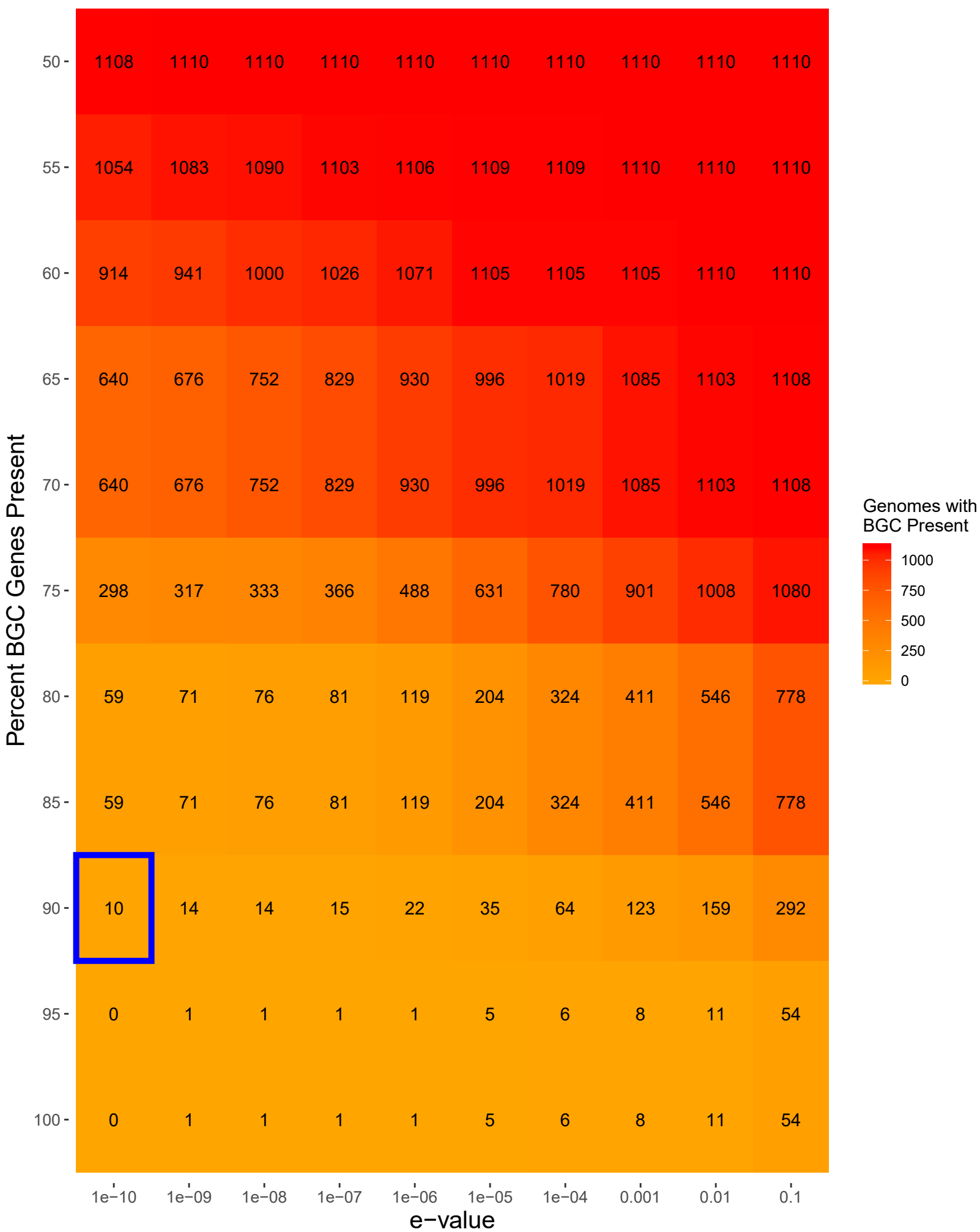






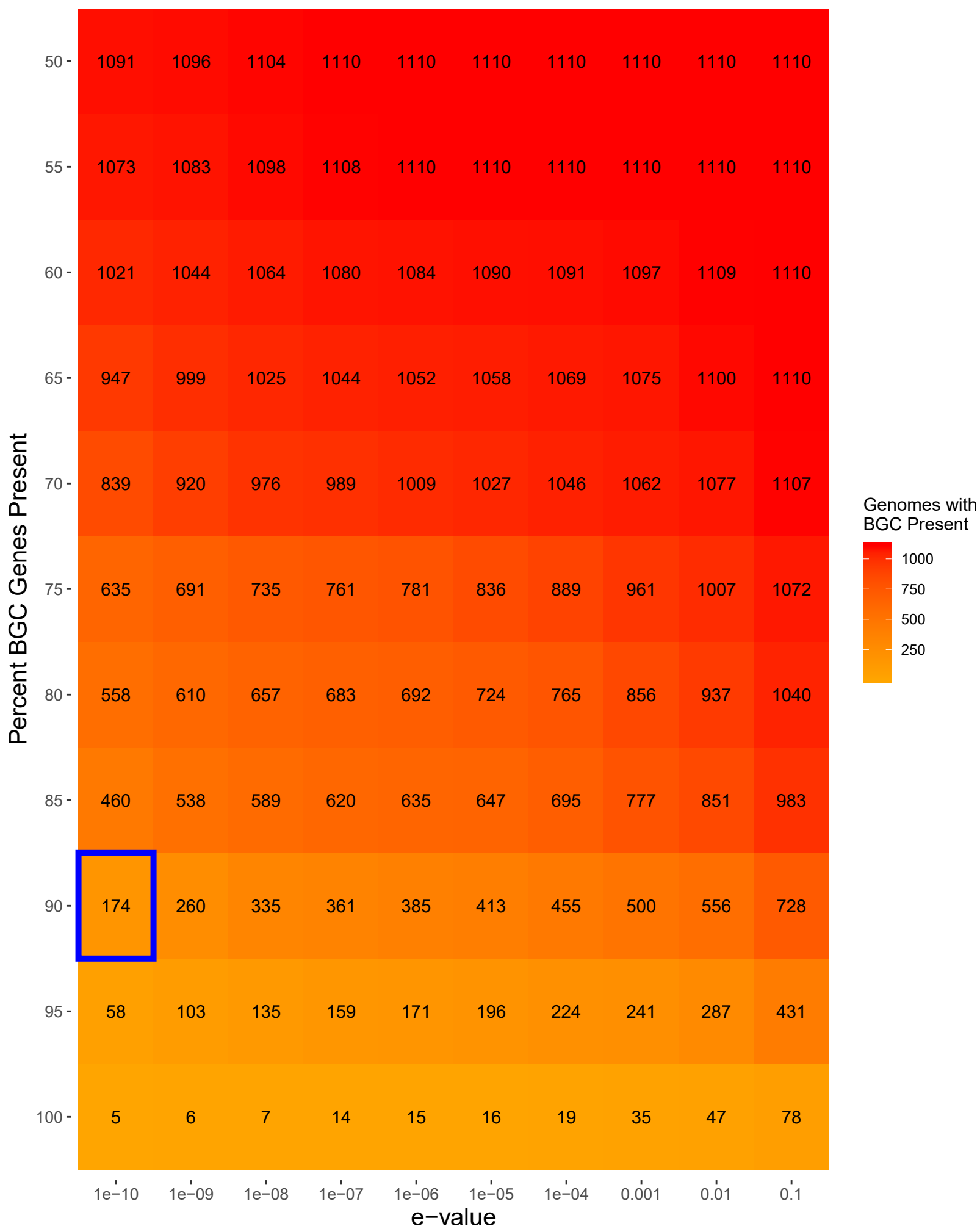


# Tautomycetin





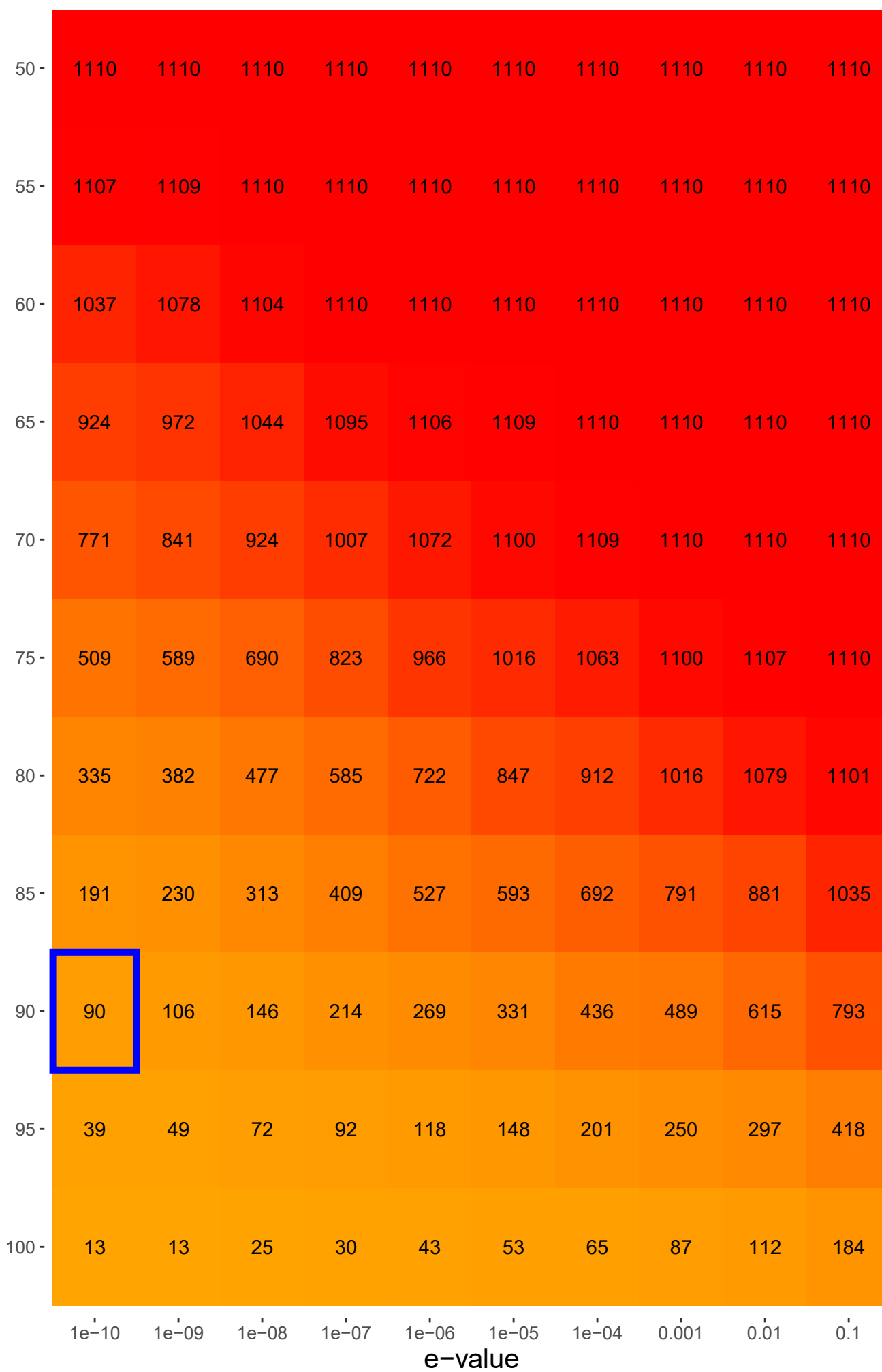
# Urdamycin





# Vicenistatin

Percent BGC Genes Present



Genomes with BGC Present

