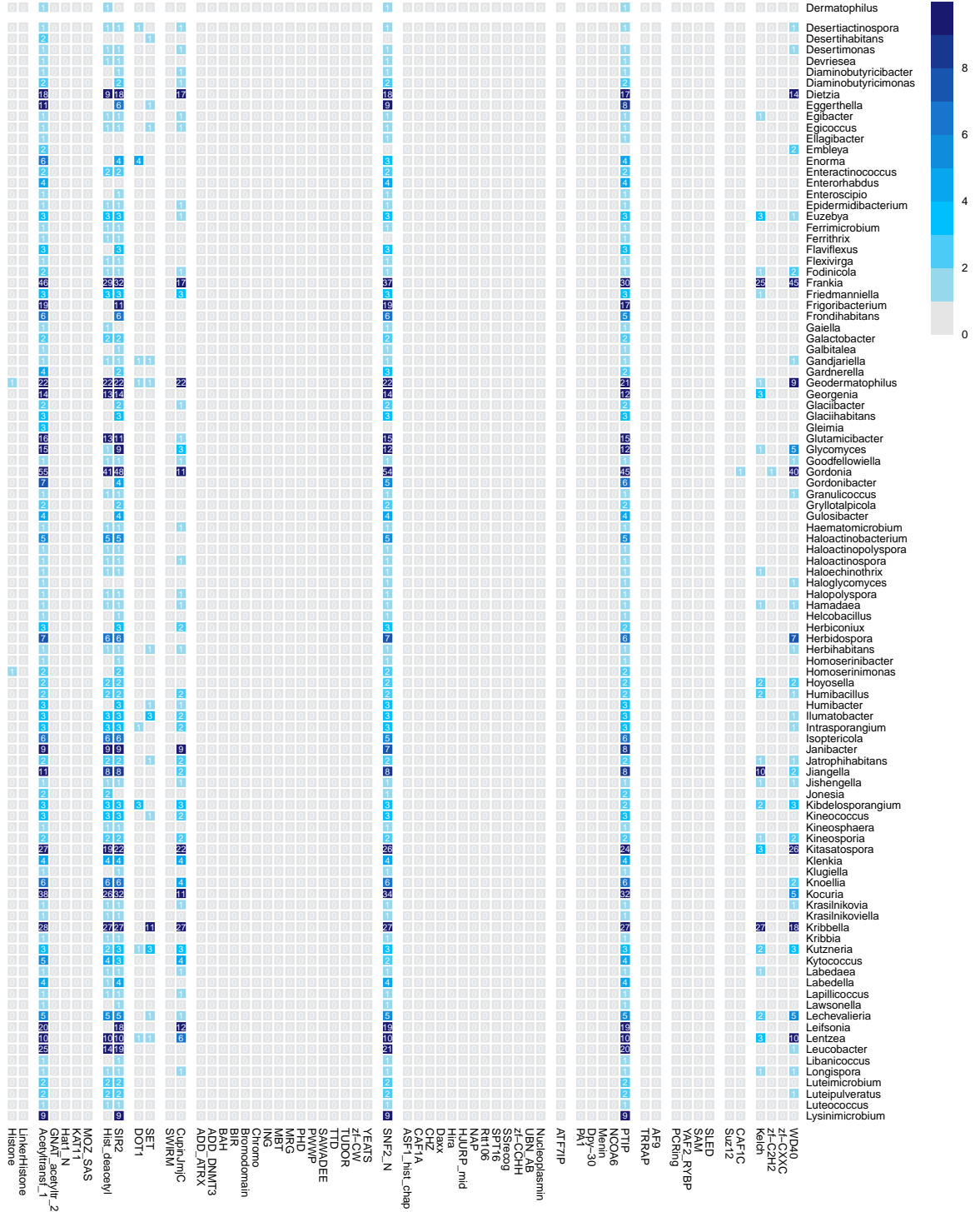


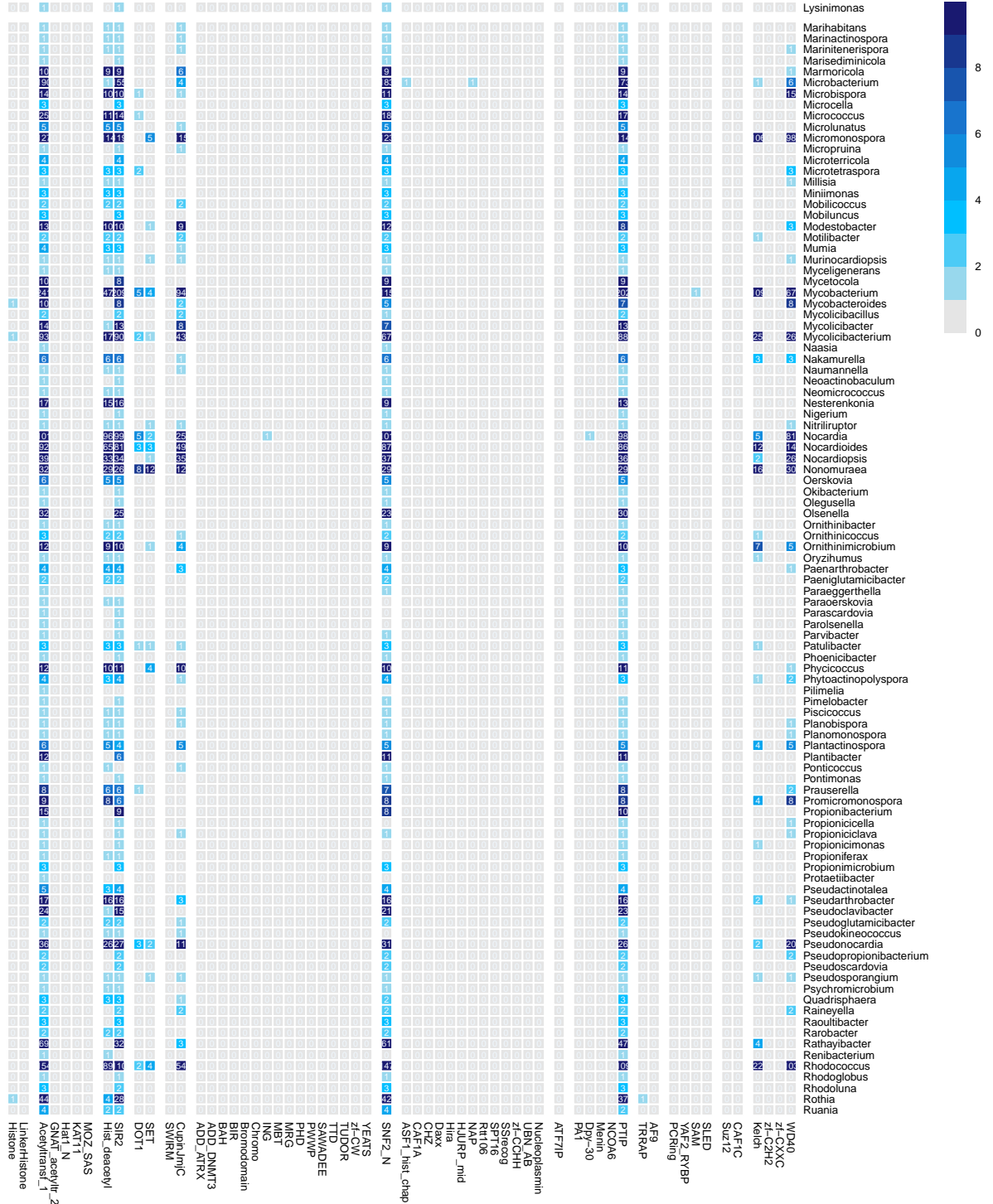
47



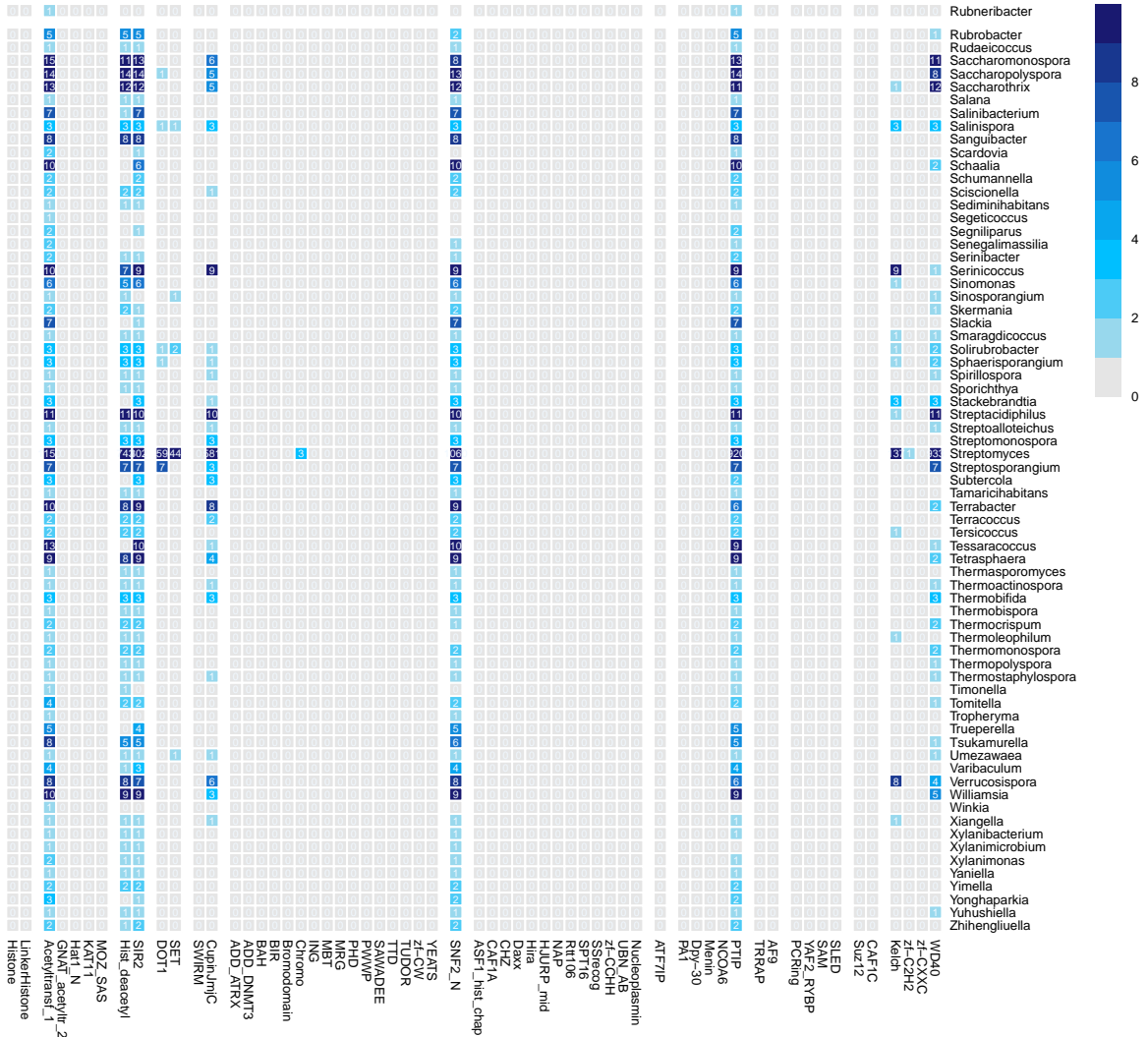
### Gene presence per genus in Actinobacteria (phylum) (2/4)



### Gene presence per genus in Actinobacteria (phylum) (3/4)



Gene presence per genus in Actinobacteria (phylum) (4/4)



This heatmap displays the relative abundance of bacterial taxa across various samples. The color scale ranges from 0 (light blue) to 1 (dark blue). The taxa are listed on the right, and the samples are listed at the bottom.

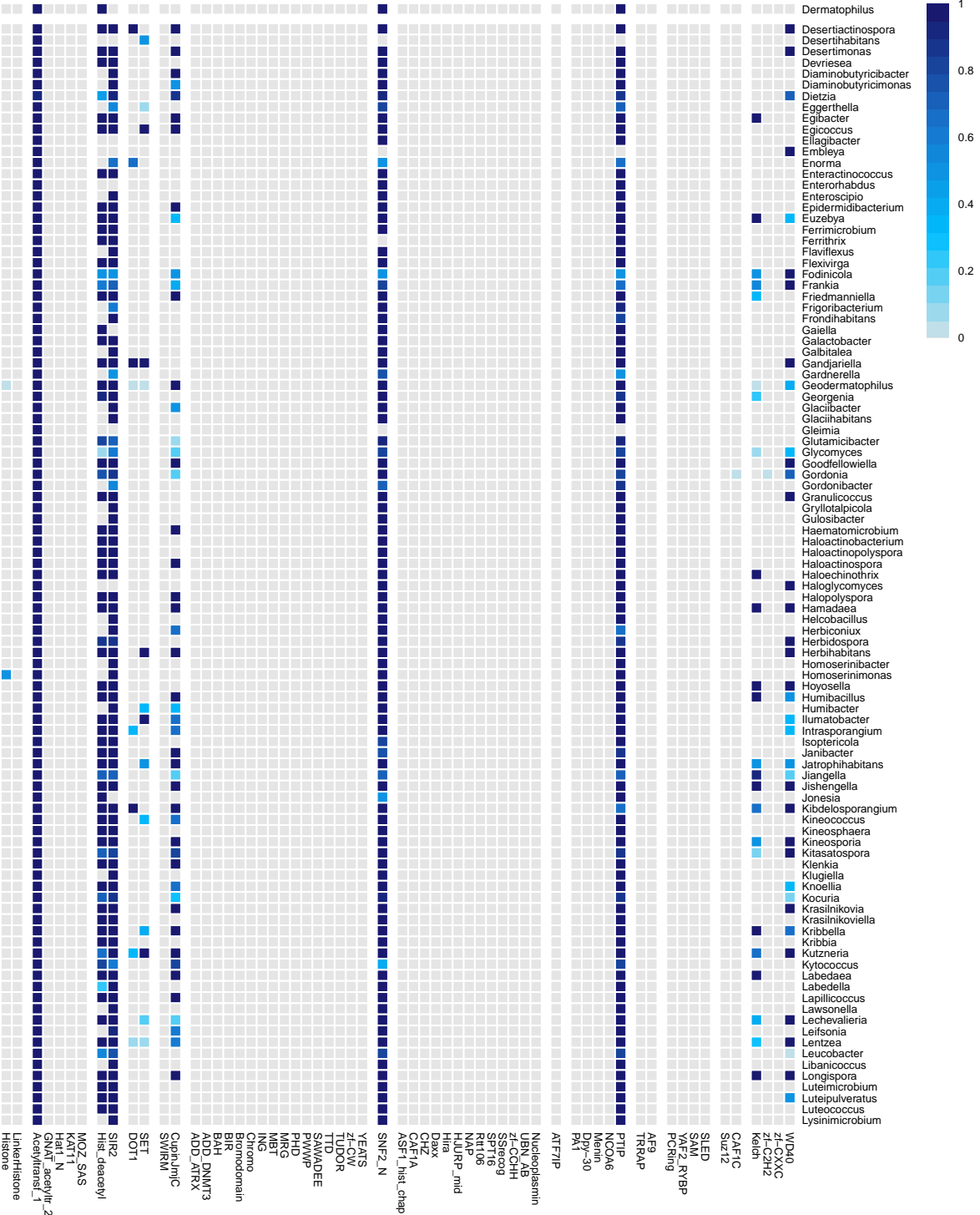
**Taxa (Right Side):**

- Sum
- Acaricomces
- Acidimicrobium
- Acidipropionibacterium
- Acidithrix
- Acidothemus
- Acrocarpospora
- Actinoallomurus
- Actinoalloteichus
- Actinobaculum
- Actinocatenispora
- Actinocorallia
- Actinocitrium
- Actinokineospora
- Actinomadura
- Actinomycetes
- Actinomycetospora
- Actinophytocola
- Actinoplanes
- Actinopolymorpha
- Actinopolytopora
- Actinorugispora
- Actinospica
- Actinosynnema
- Actinotalea
- Actinotignum
- Adlercreutzia
- Aeriscardovia
- Aeromicrobium
- Aestuariimicrobium
- Agreia
- Agrococcus
- Agromyces
- Alloactinosynnema
- Alloukutzneria
- Alonocardiosis
- Allothizocella
- Allosalinactinospora
- Alloscardovia
- Amnibacterium
- Amycolatopsis
- Anacrocticia
- Angustibacter
- Antricoccus
- Arabia
- Arcanobacterium
- Arsenicicoccus
- Arthrobaacter
- Asaccharobacter
- Asana
- Atopobium
- Aurantimicrobium
- Auraticoccus
- Auritidibacter
- Austwickia
- Baekduia
- Barrientosiimonas
- Beutenbergia
- Bifidobacterium
- Blastococcus
- Bogoriella
- Bombiscardovia
- Brachybacterium
- Branchiibius
- Brevibacterium
- Calidfontibacter
- Candidatus Aquiluna
- Candidatus Microthrix
- Candidatus Nanopelagicus
- Candidatus Planktophilia
- Catellatospora
- Catelliglobosispora
- Catenulispora
- Catenuloplanes
- Cellulomonas
- Cellulosimicrobium
- Chryseoglobus
- Citricoccus
- Clavibacter
- Cnuliabacter
- Collinsella
- Compostimonas
- Conexibacter
- Coriobacterium
- Corynebacterium
- Couchioplanes
- Crossiella
- Cryobacterium
- Cryocella
- Cryptobacterium
- Cryptosporangium
- Cumulibacter
- Curtobacterium
- Cutibacterium
- Dactylosporangium
- Demequina
- Demetria
- Denitrobacterium
- Dermabacter
- Dermacoccus

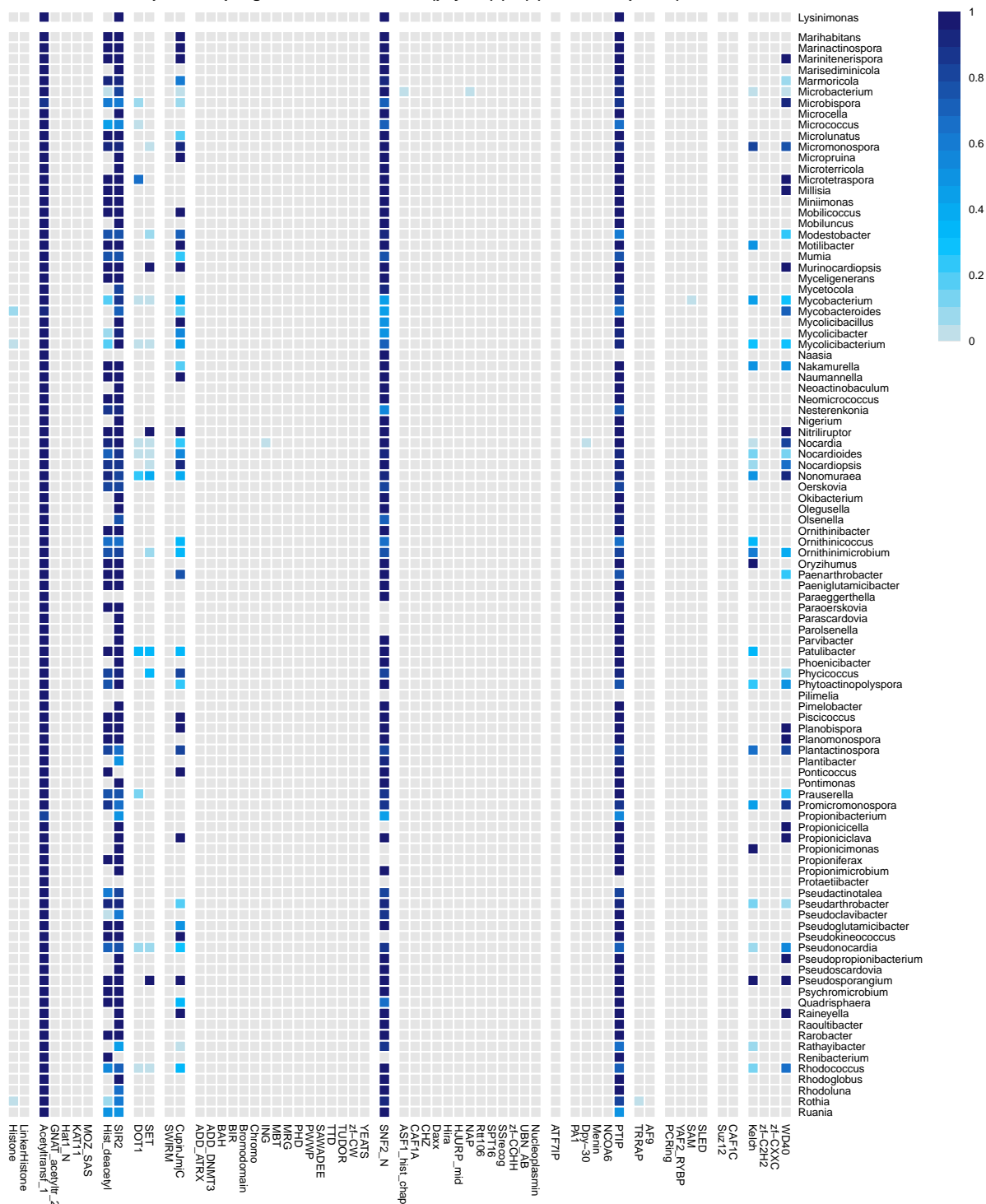
**Samples (Bottom):**

- LineHistone
- Histone
- Acetyltransf\_1
- GNAF\_Nacetyl\_Z
- KAT11
- MOZ\_SAS
- Hik\_Ceaceryl
- SET2
- DOT1
- SET1
- CuqJunc
- SWRM
- ADD\_ATRX
- DMT3
- BIR
- Biomedomain
- ING
- MIG
- PWD
- PWVWP
- SAWADEE
- TTD
- TUDOR
- YEATS
- SNF2\_N
- ASF1\_inst\_chap
- CAF1A
- CHZ
- Daxx
- Hira
- HUHP\_mld
- RIT16
- SP106
- SSireog
- ZL-COH
- UBN\_AB
- NucleoBasin
- ATF7IP
- DPY-30
- Menn
- NCOA6
- PTP
- TRRAP
- AF9
- POring
- VAPB\_RYP
- SLEP
- SLC12
- CAFIIC
- Keih
- ZL-CZH2
- WD40

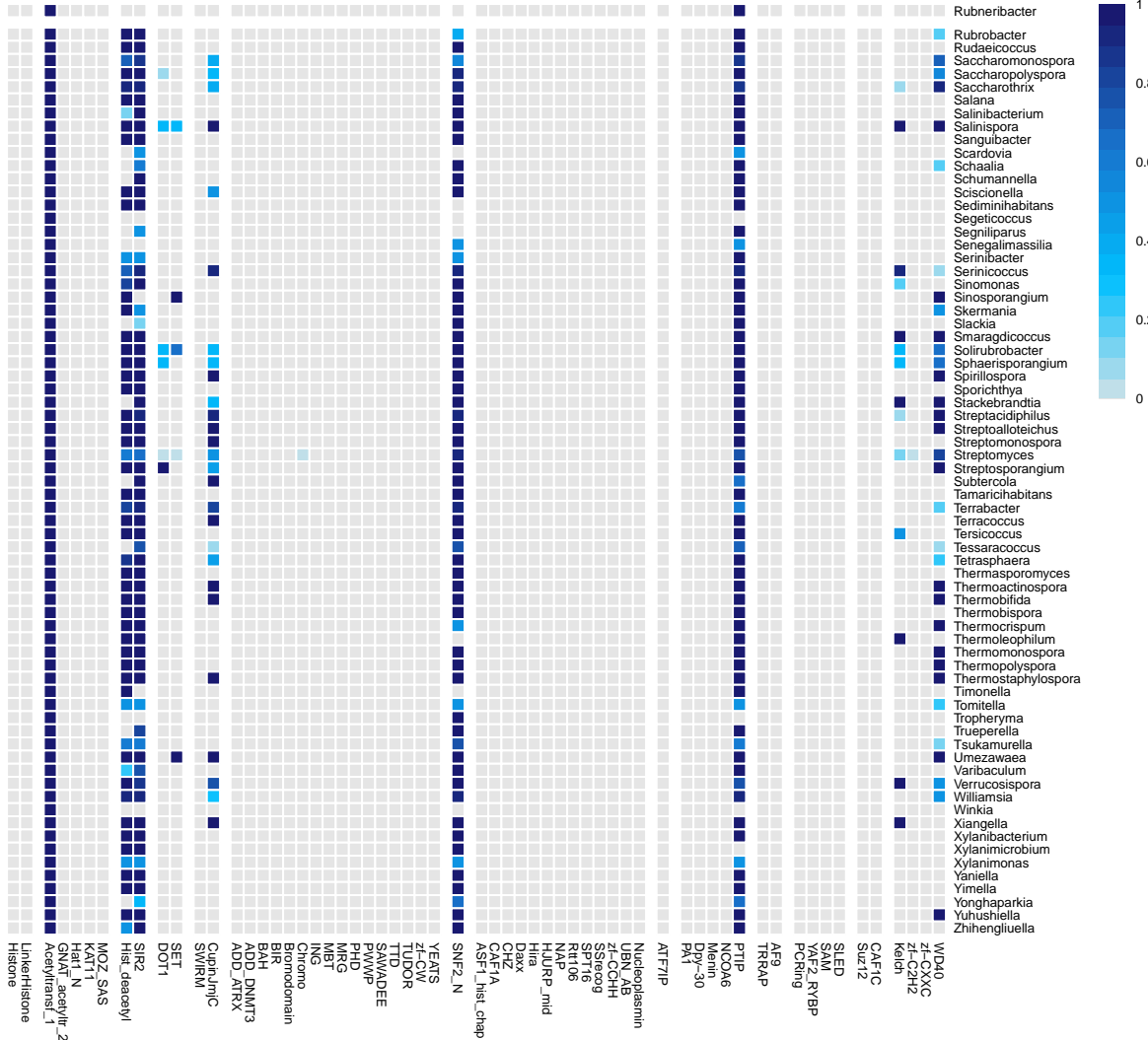
Gene presence per genus in Actinobacteria (phylum) (2/4) (fraction of species)



Gene presence per genus in Actinobacteria (phylum) (3/4) (fraction of species)



Gene presence per genus in Actinobacteria (phylum) (4/4) (fraction of species)





num species per group

