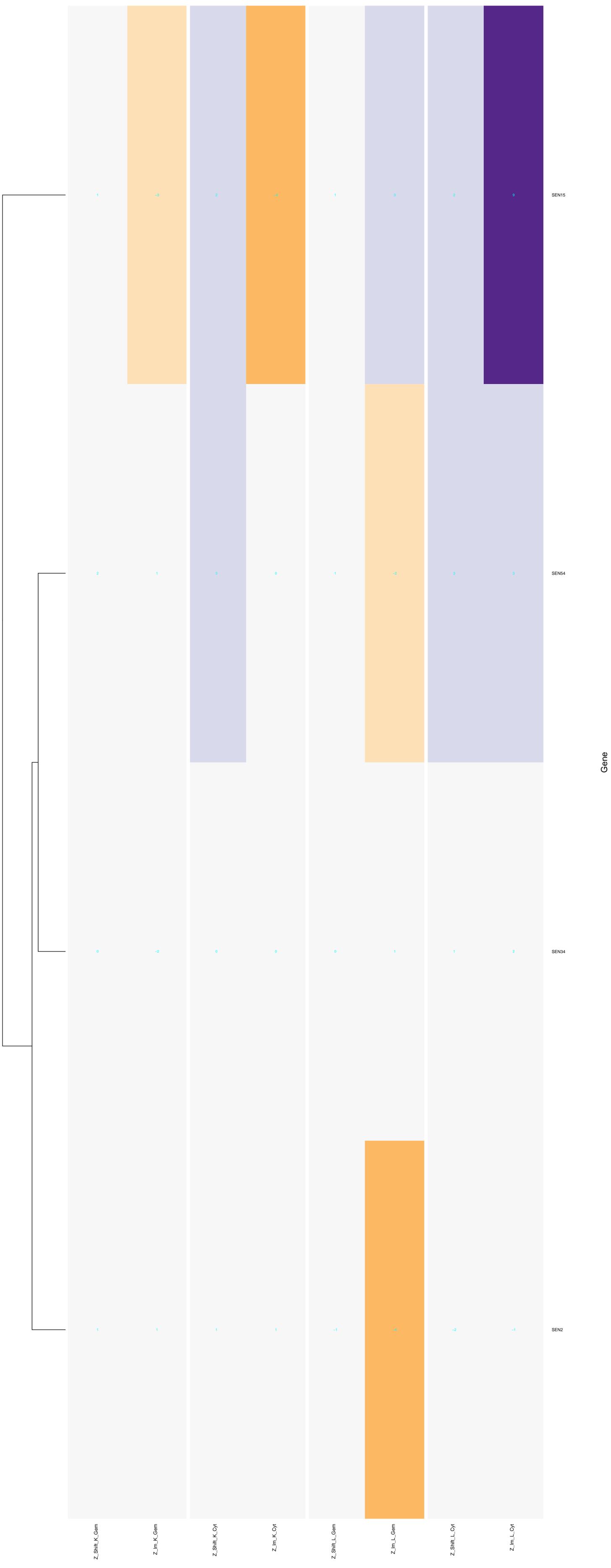
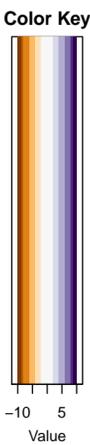
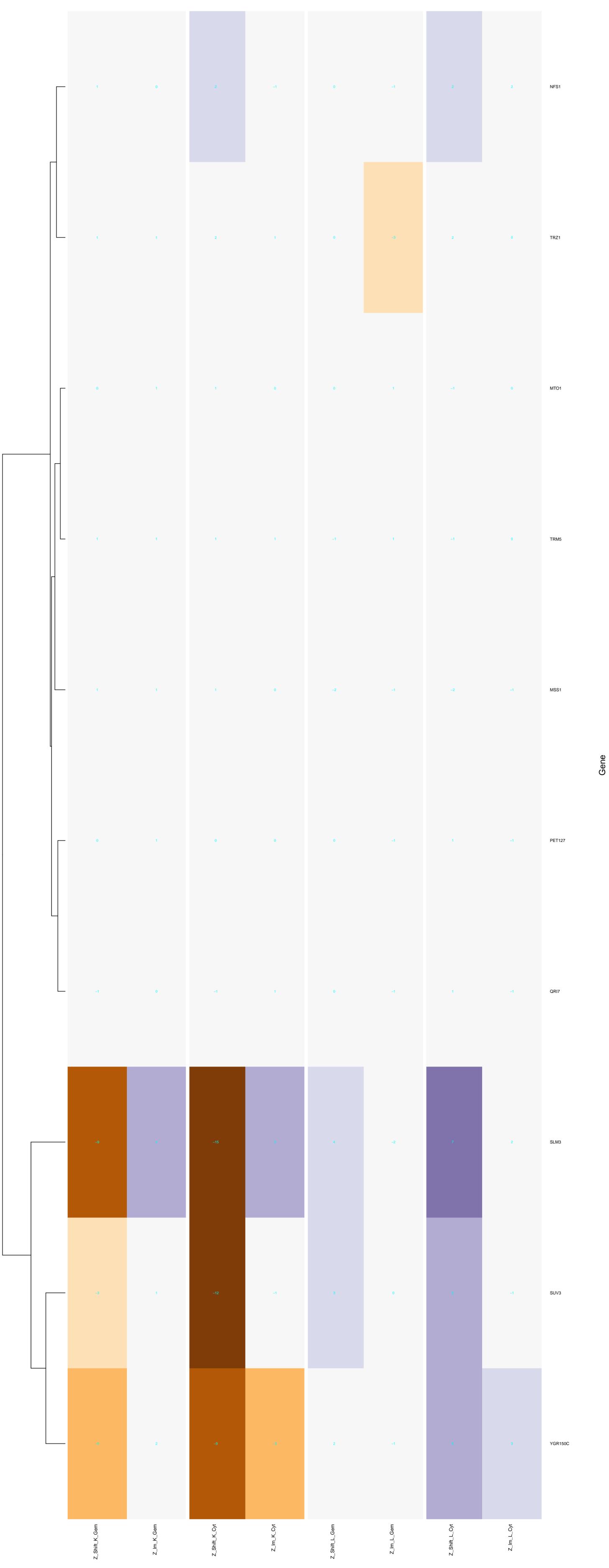


tRNA-type intron splice site recognition and cleavage

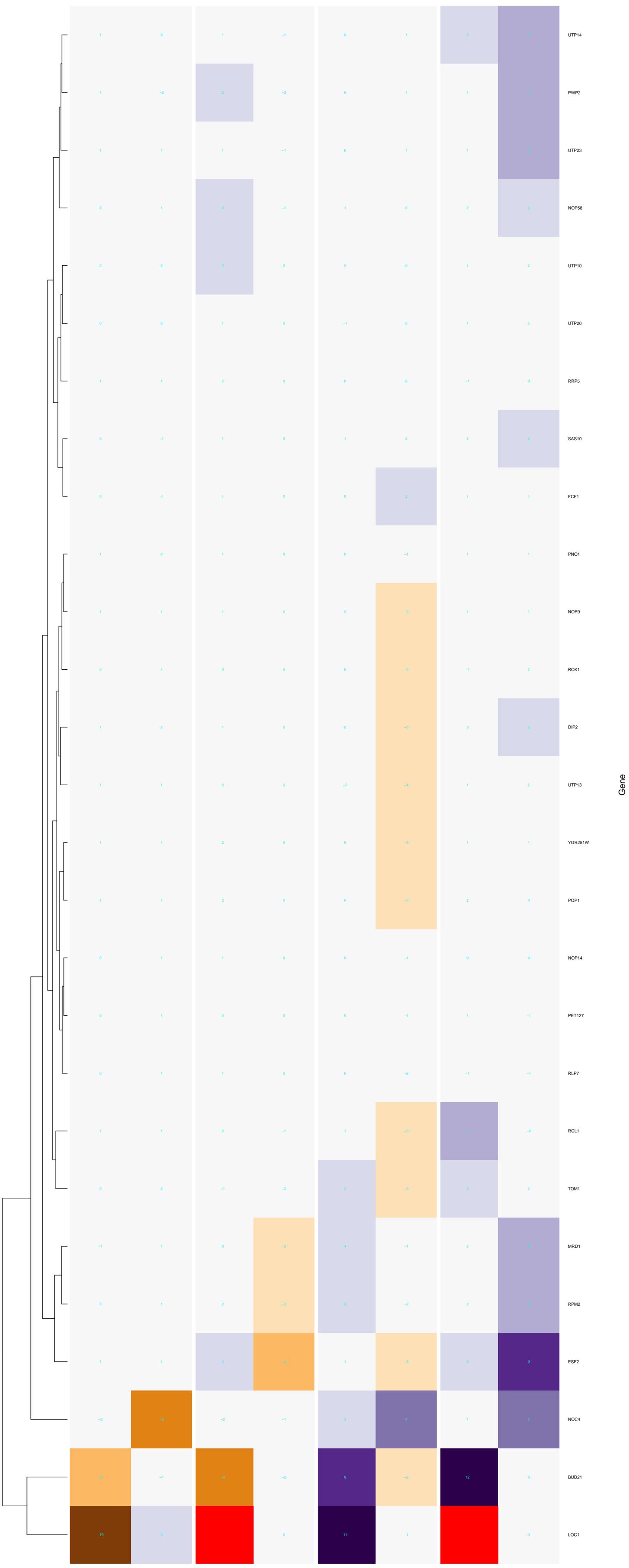


mitochondrial RNA processing

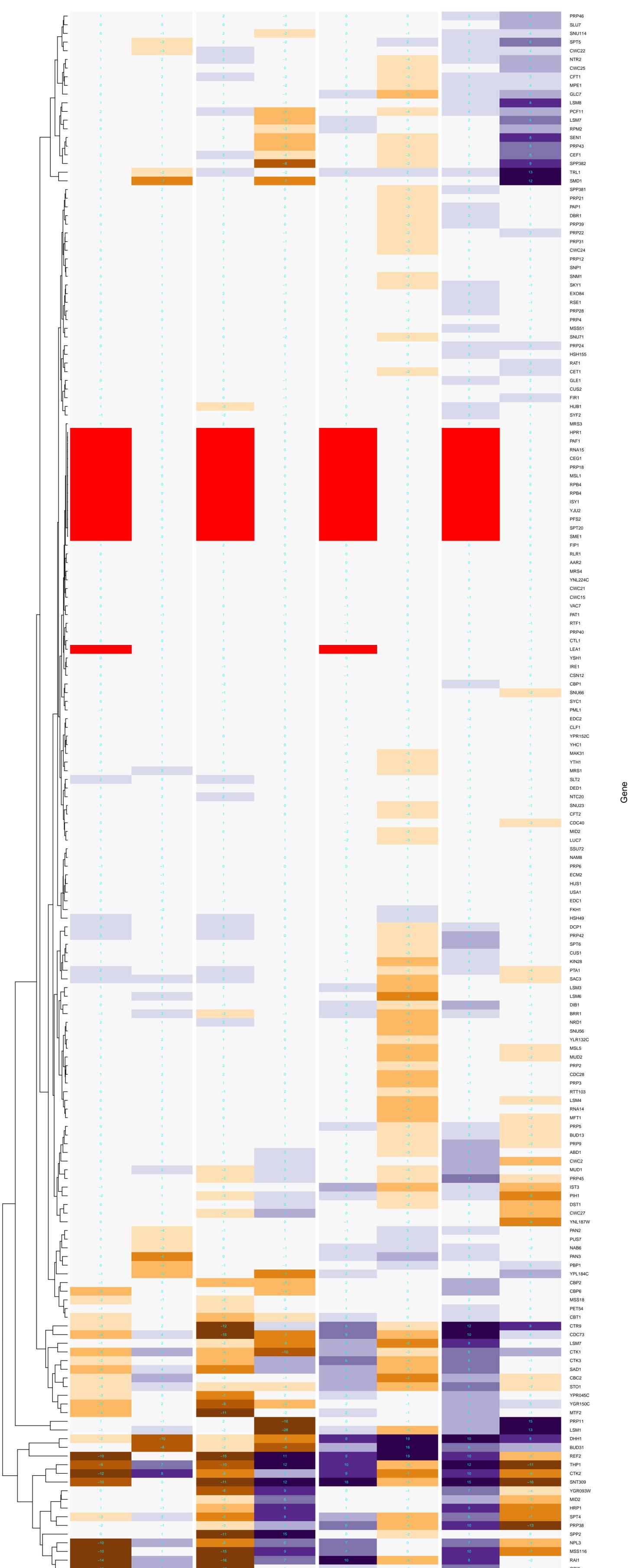


Gene

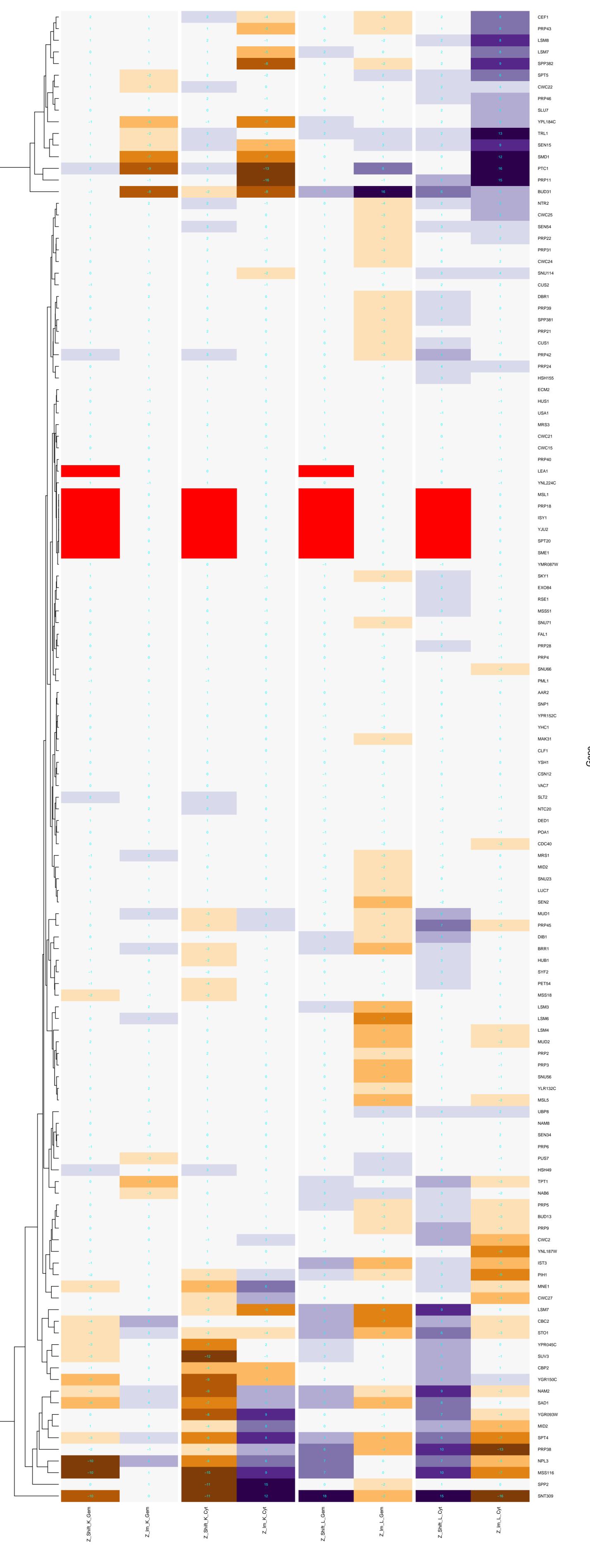
RNA 5'-end processing



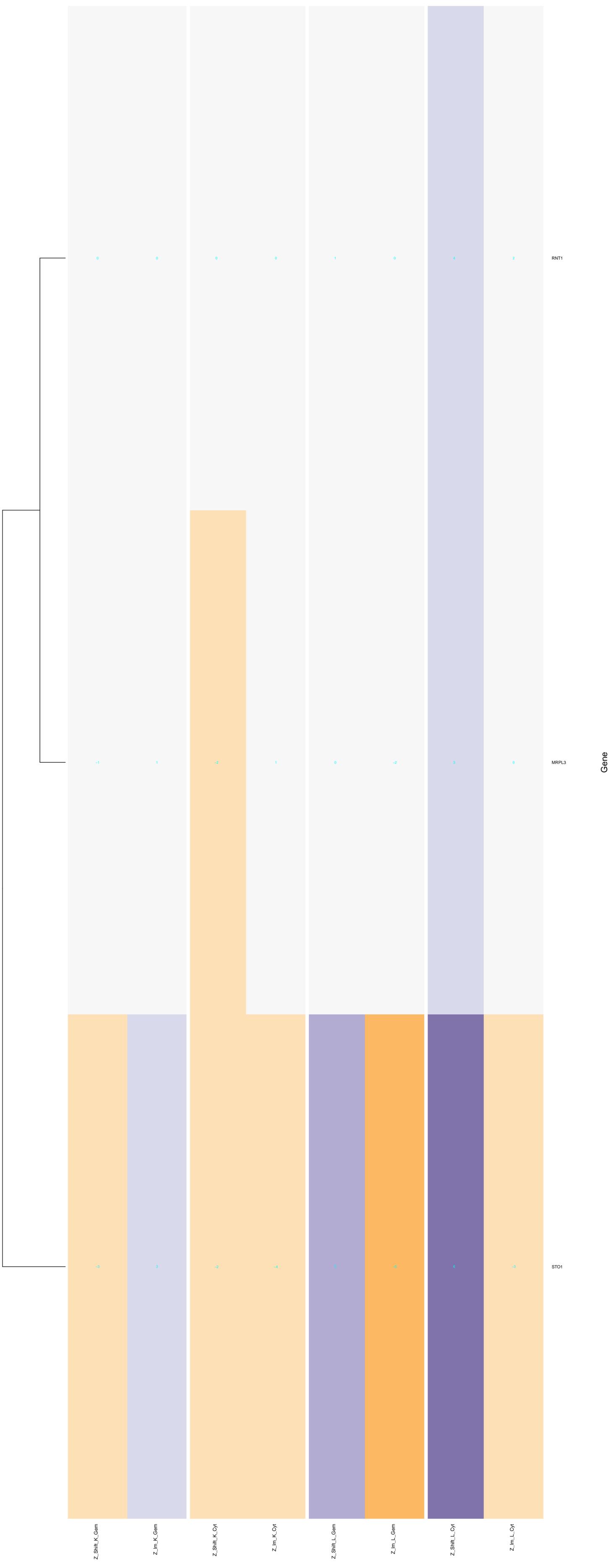
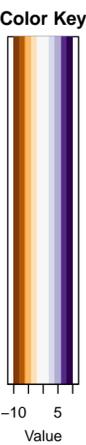
mRNA processing



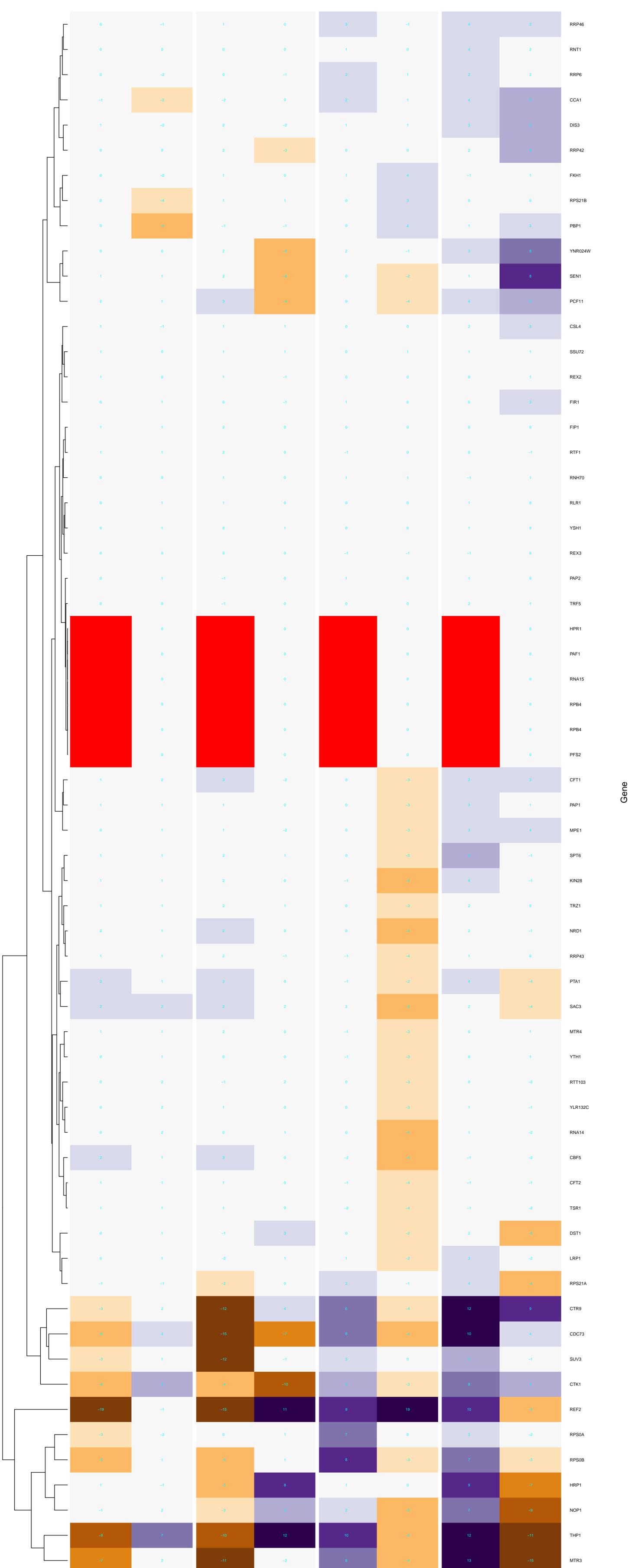
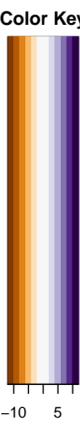
RNA splicing



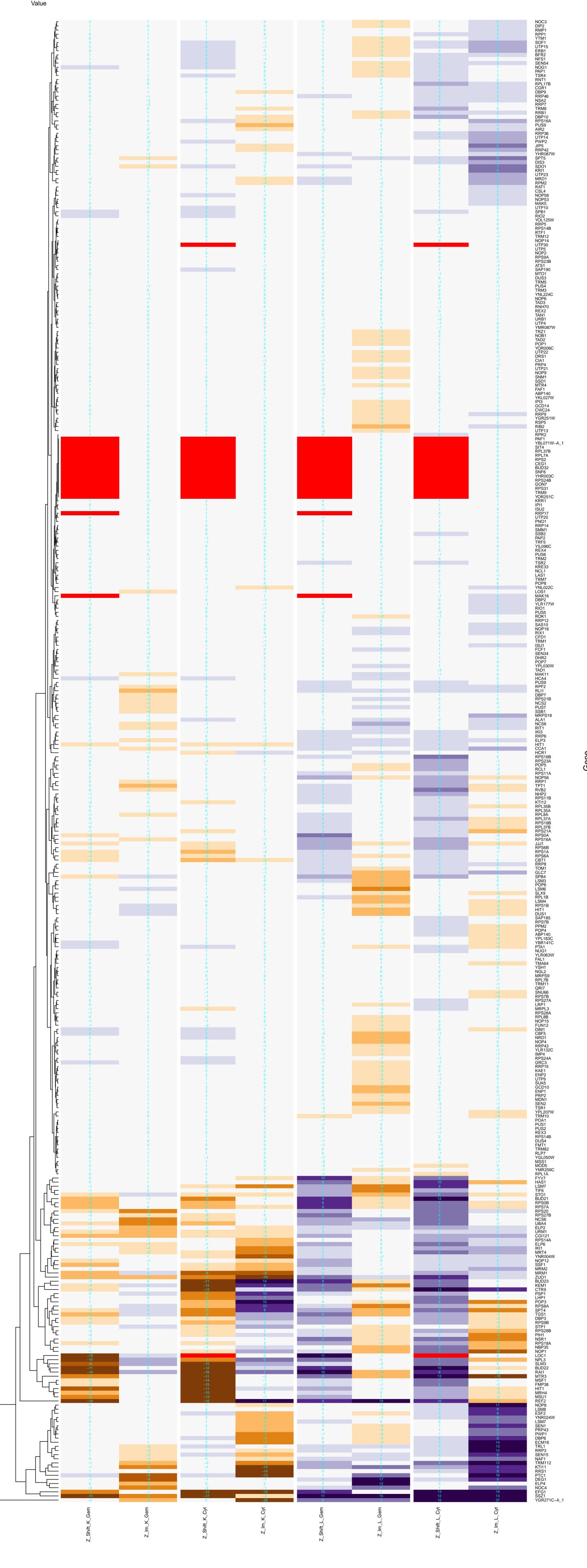
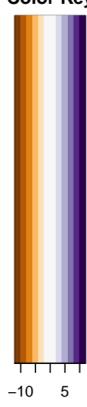
dsRNA fragmentation



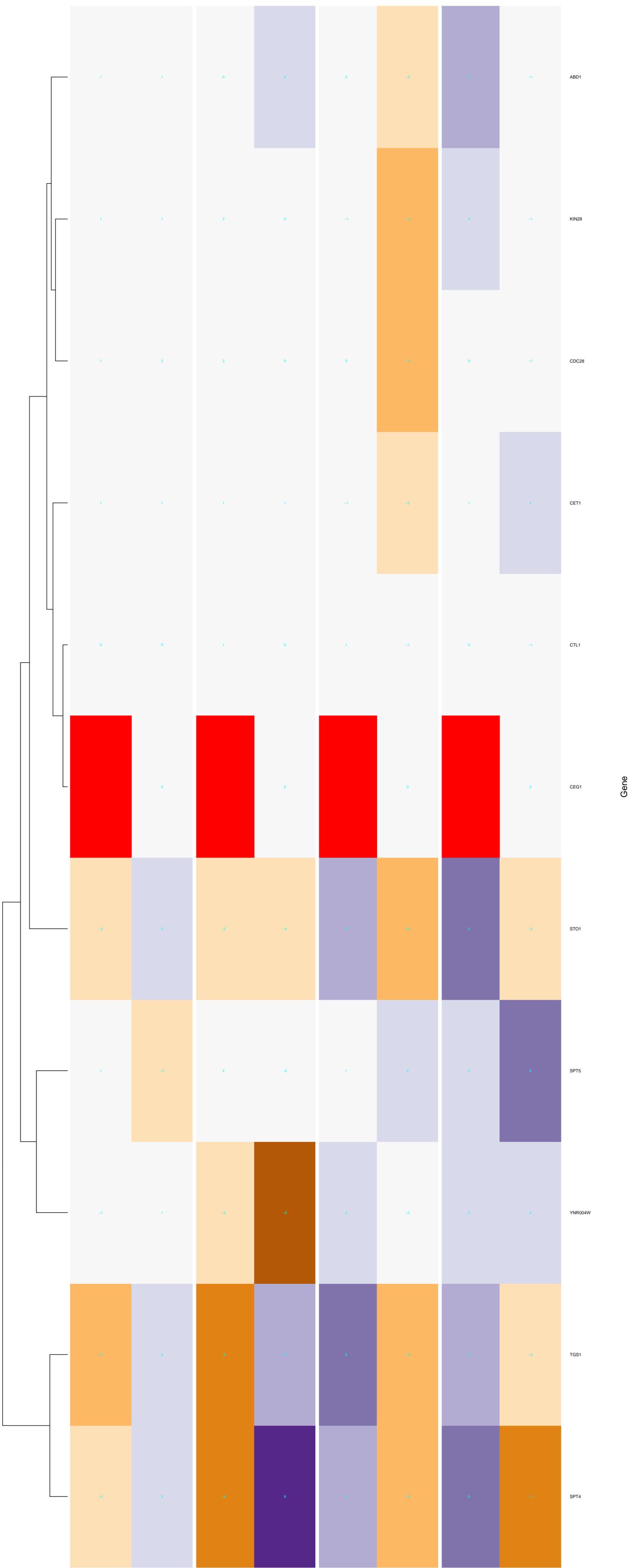
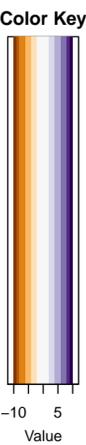
RNA 3'-end processing



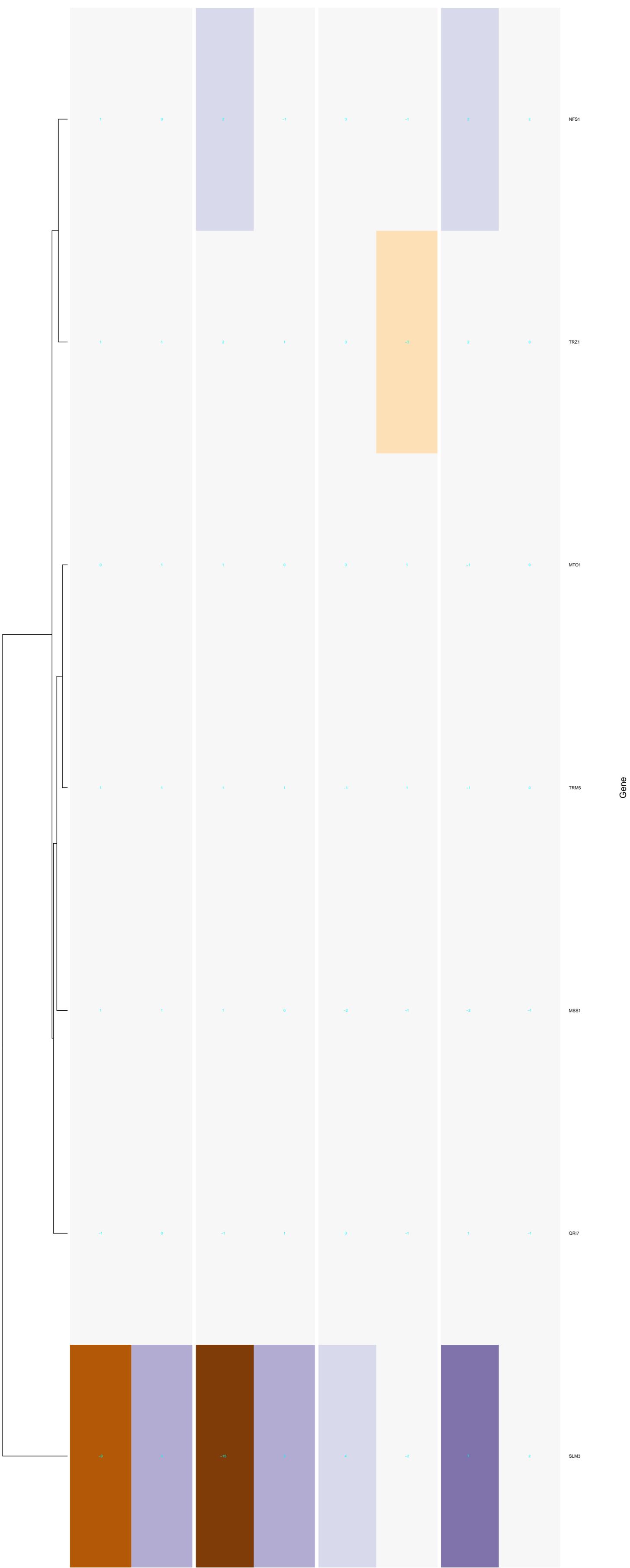
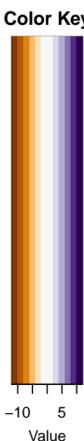
ncRNA processing



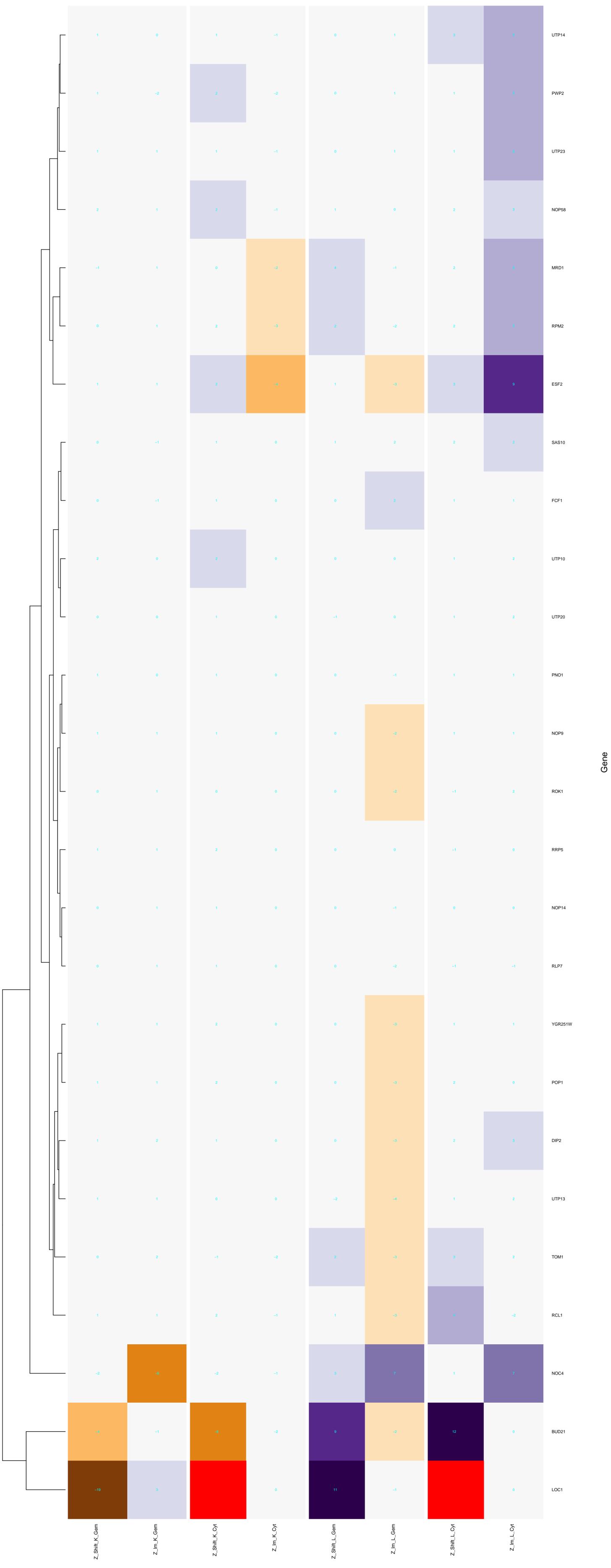
RNA capping



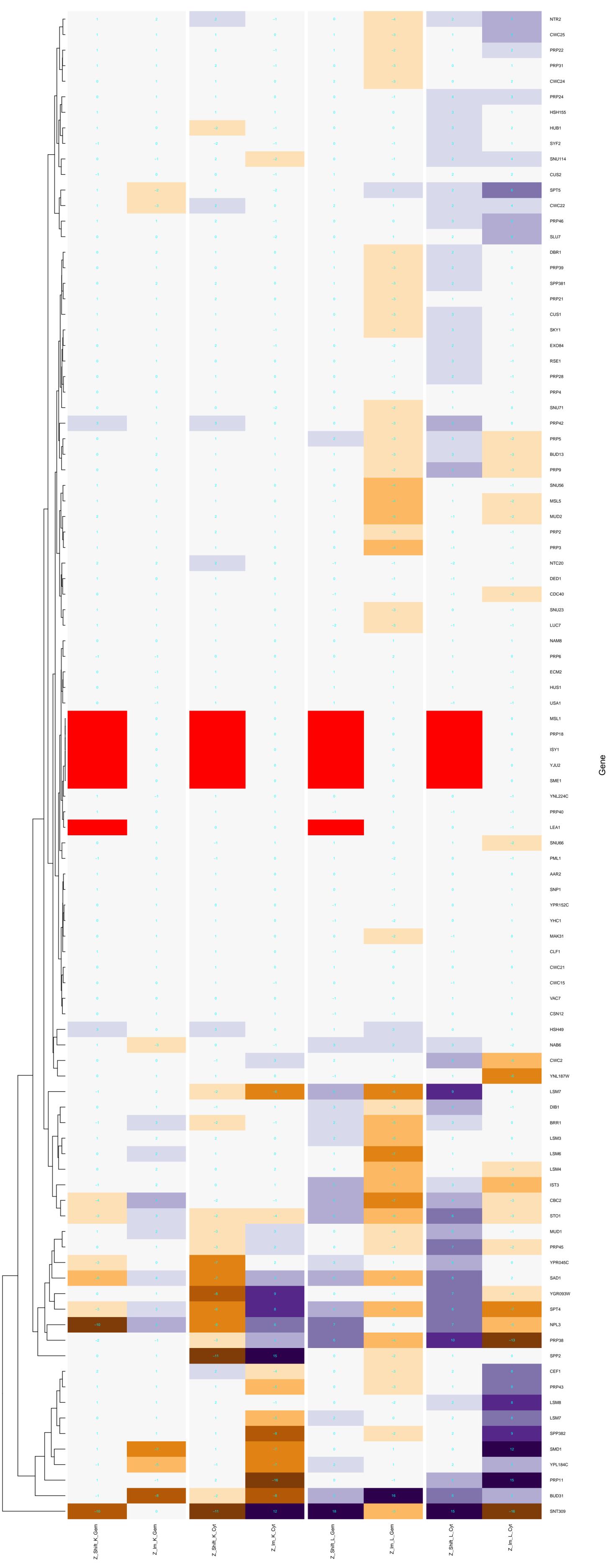
mitochondrial tRNA processing



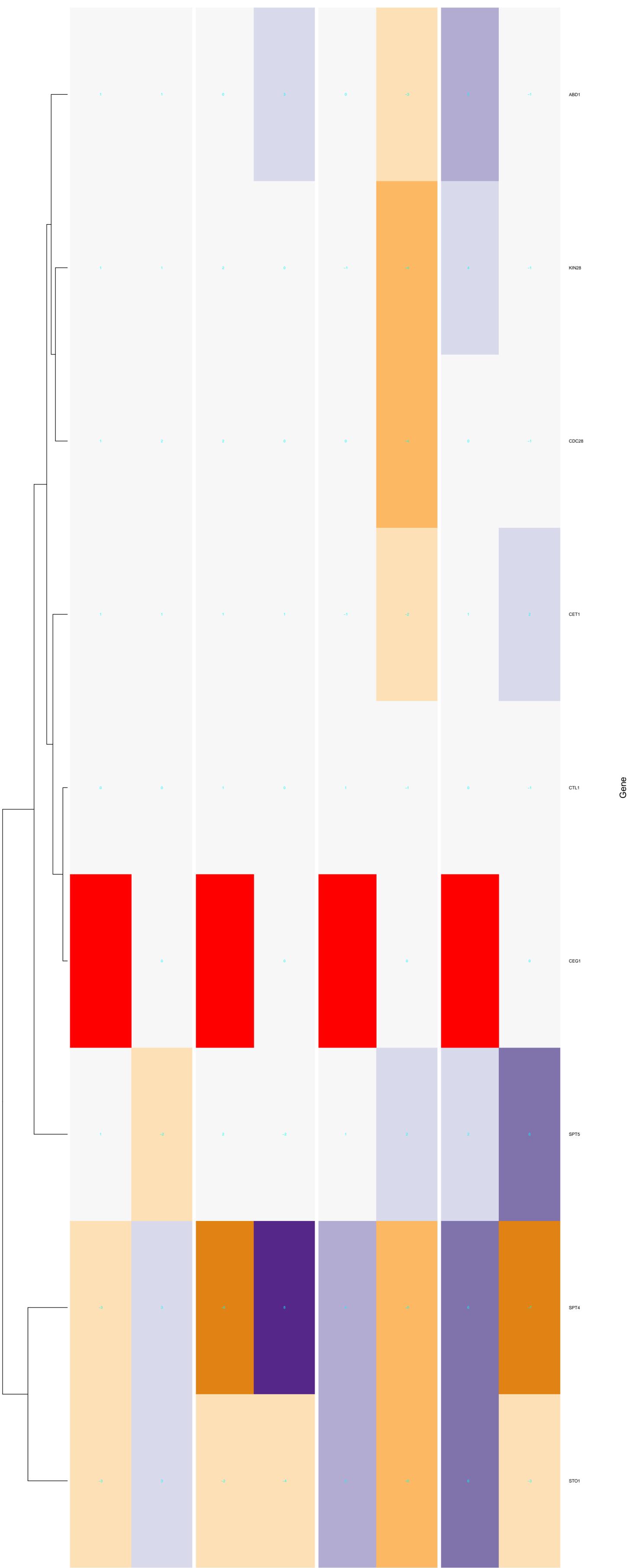
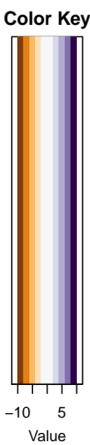
ncRNA 5'-end processing



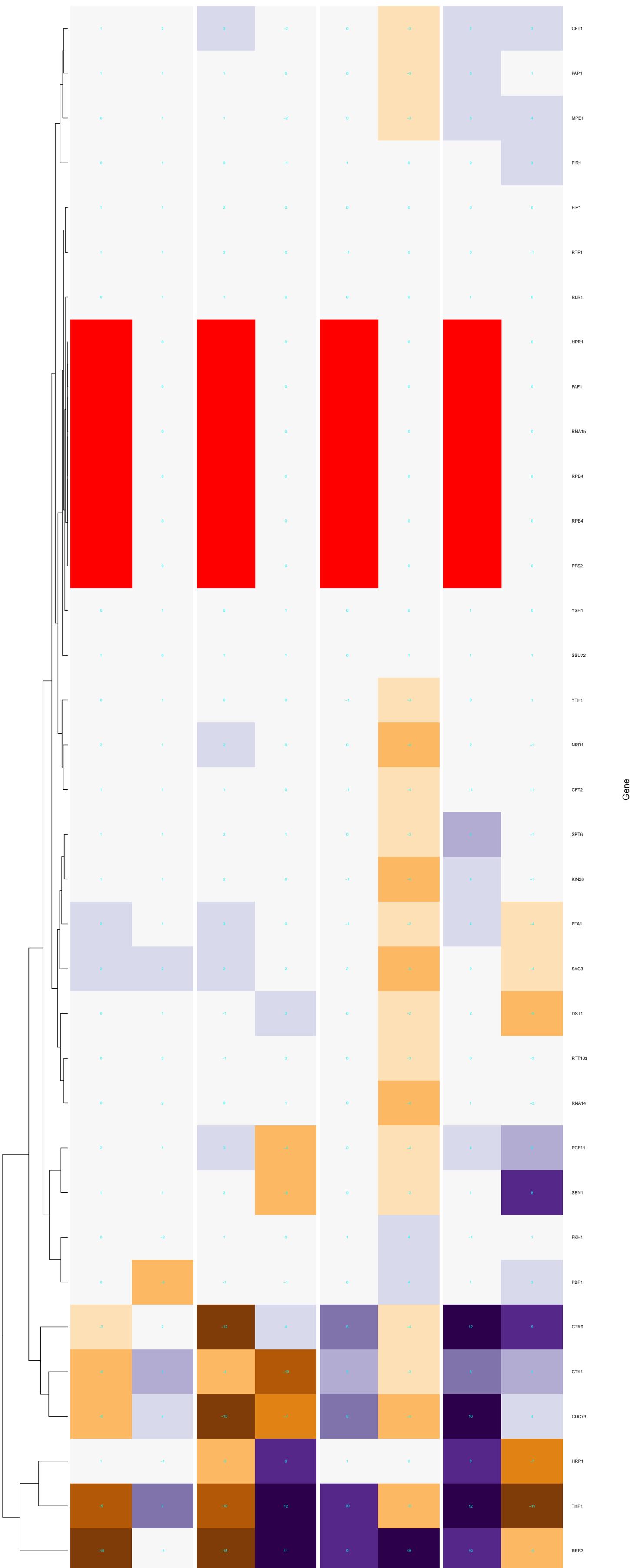
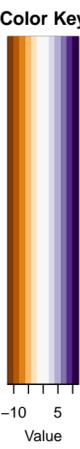
mRNA splicing, via spliceosome



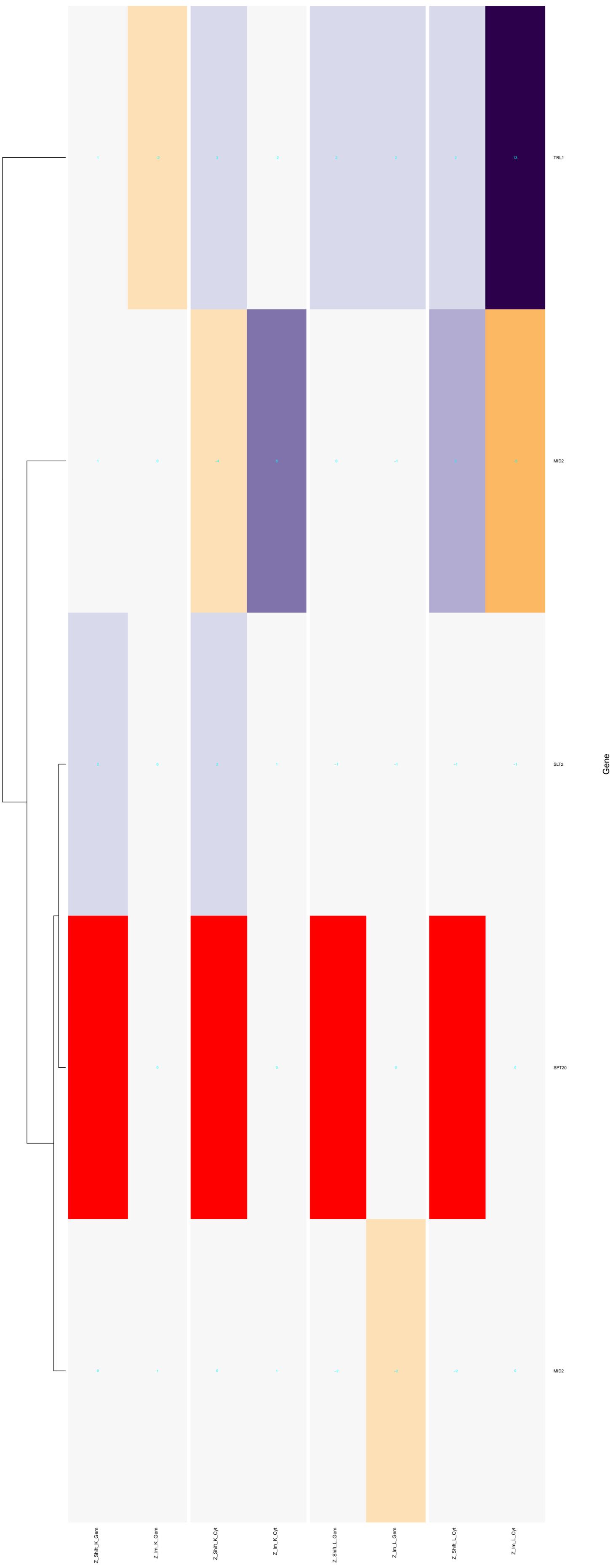
7-methylguanosine mRNA capping

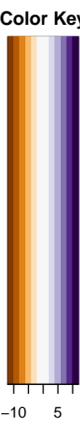


mRNA 3'-end processing

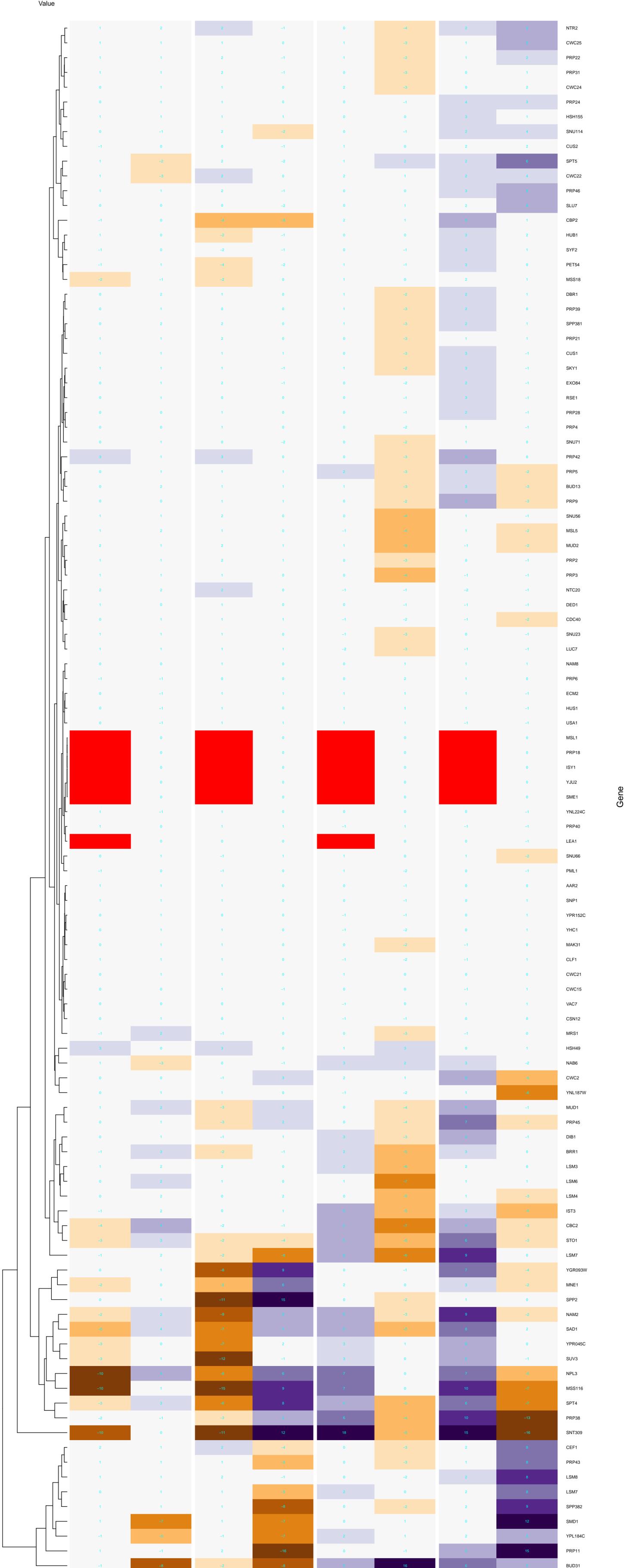


mRNA splicing, via endonucleolytic cleavage and ligation

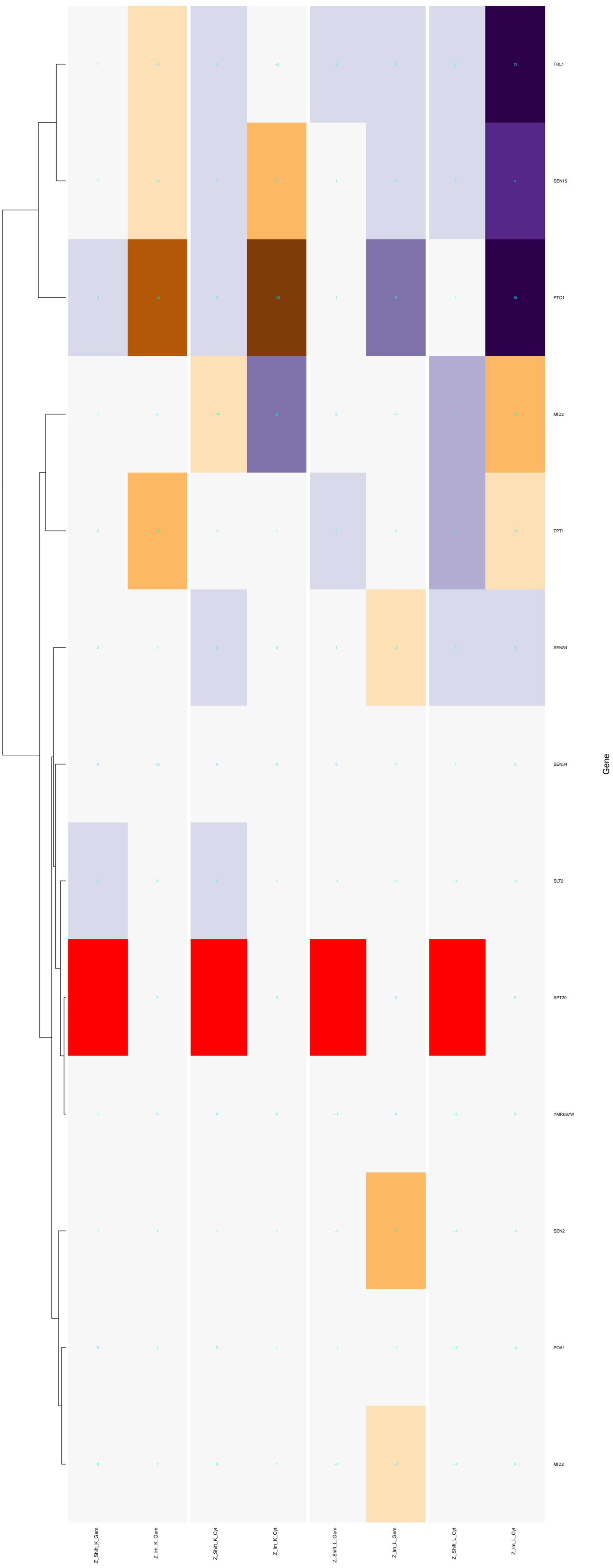
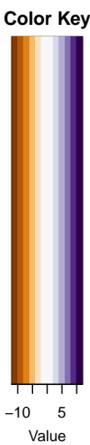




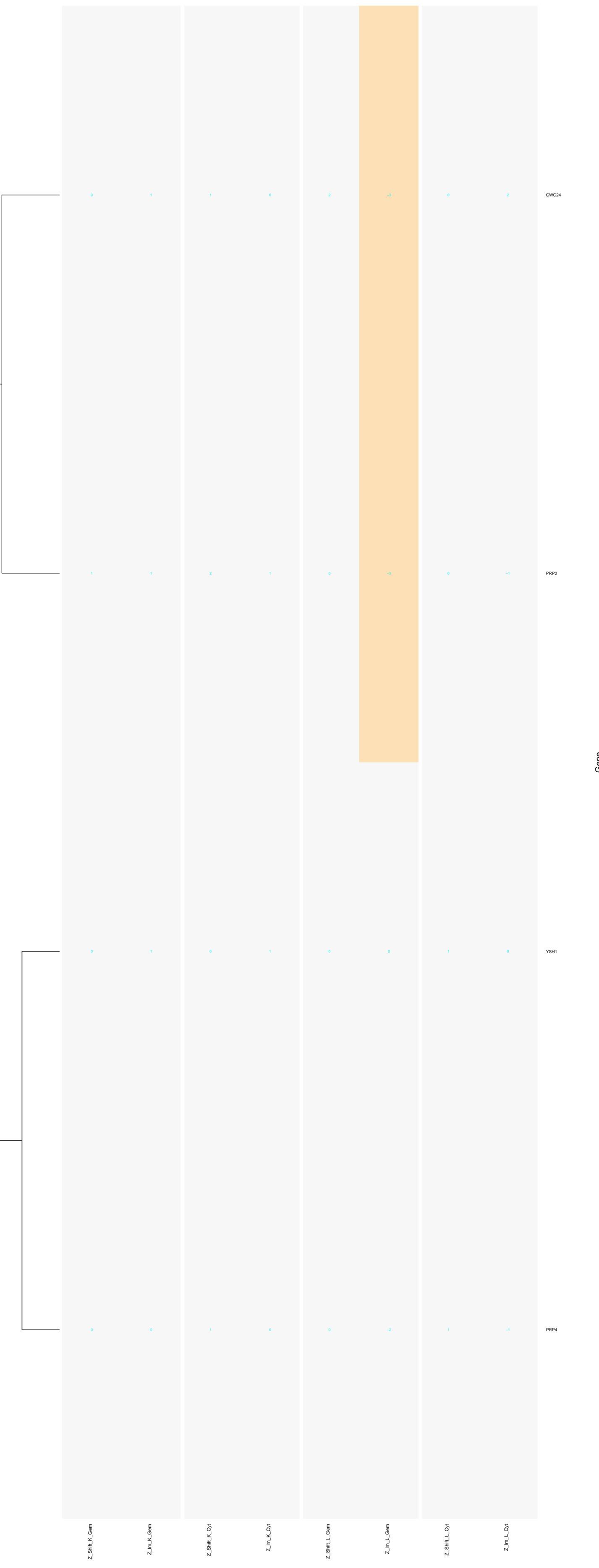
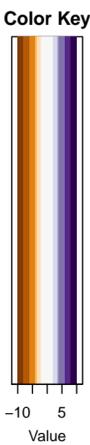
RNA splicing, via transesterification reactions



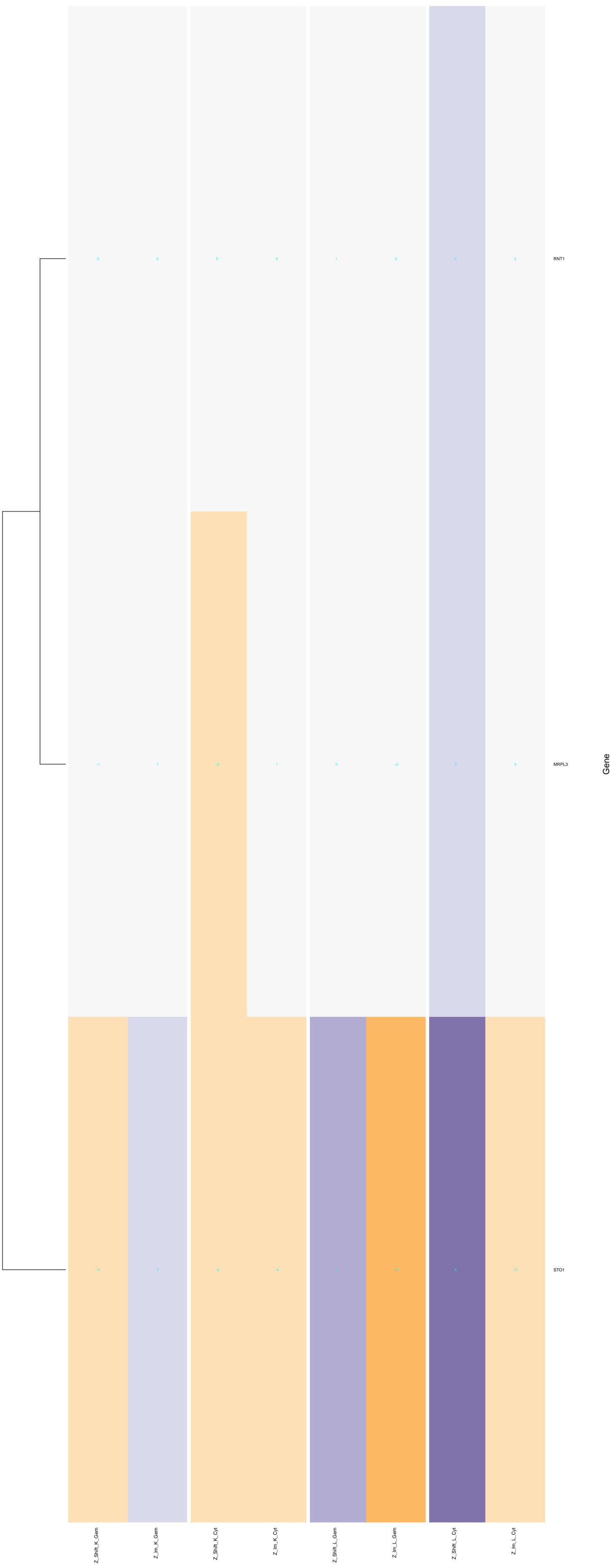
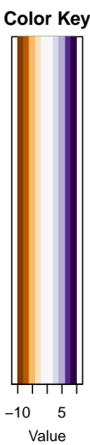
RNA splicing, via endonucleolytic cleavage and ligation



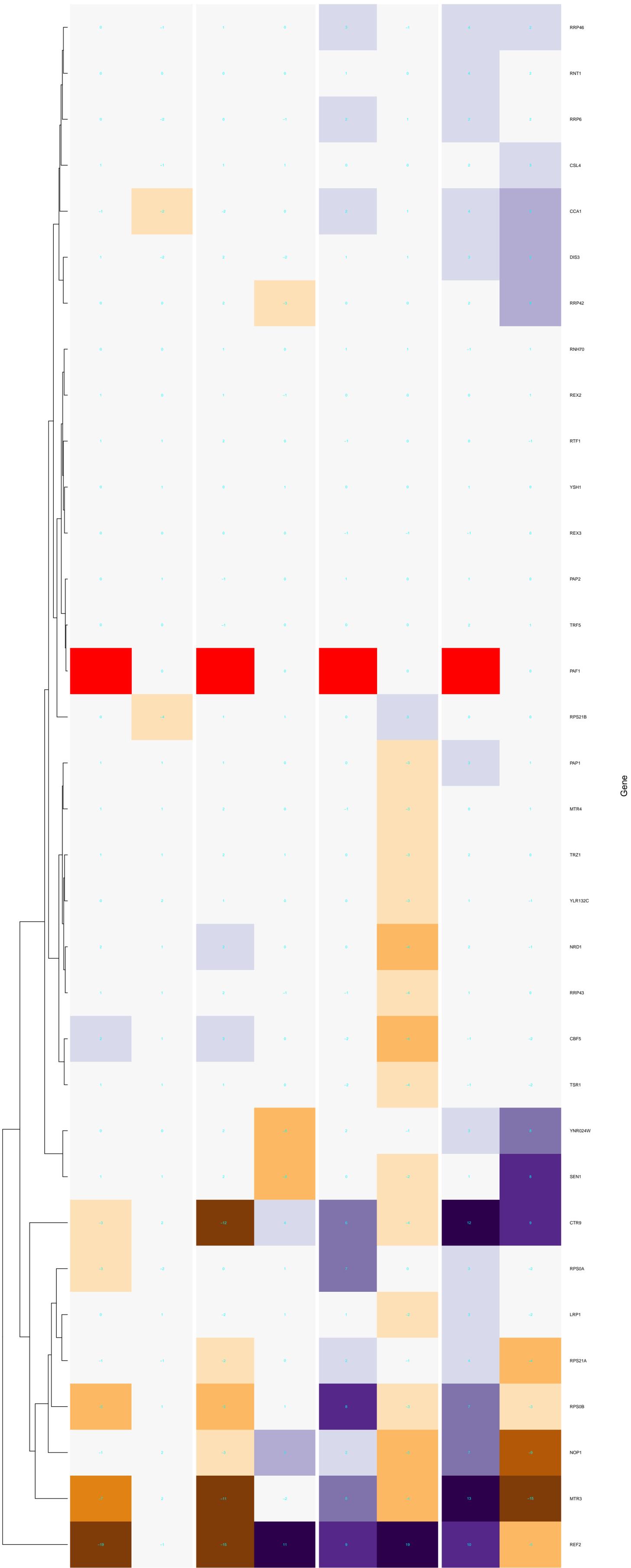
snoRNA splicing



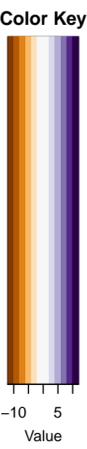
production of small RNA involved in gene silencing by RNA



ncRNA 3'-end processing



rRNA processing

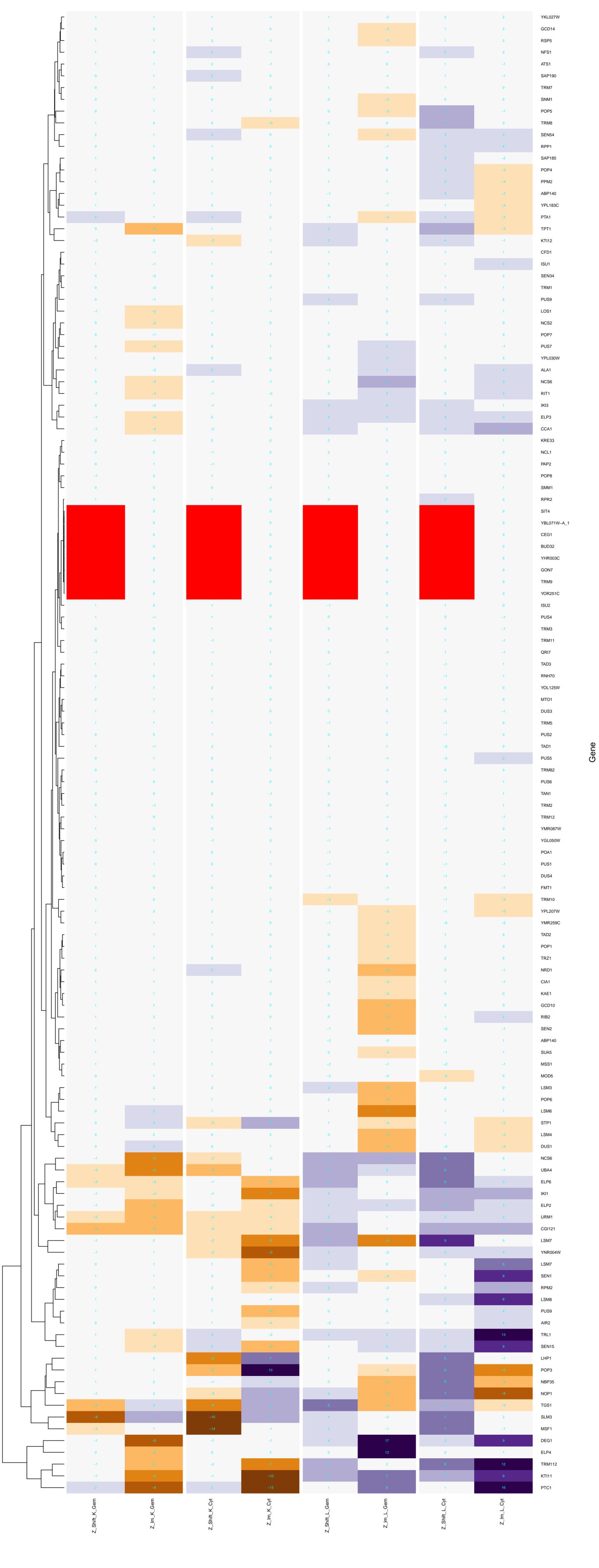
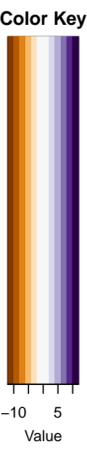


Gene

- NOC3
- DIP2
- RMP1
- BFR2
- RFP1
- YTM1
- RAT1
- CSL4
- NOP58
- SOF1
- UTP15
- ERB1
- KRI1
- UTP23
- RNT1
- RPL17B
- CGR1
- DBP9
- RRP46
- NSA2
- RRP7
- YHR087W
- RRP6
- YNL022C
- RPS14A
- RRP36
- UTP14
- PWP2
- JIP5
- RRP42
- RPS16A
- DIS3
- SDO1
- MRPS18
- MRD1
- NAF1
- NOP12
- SSF1
- HIT1
- MRM2
- MR4
- RPS20
- RPS27B
- NOC4
- RRP12
- SAS10
- NOP16
- RIX1
- DHR2
- POP7
- FCF1
- KRR1
- IPH1
- RPL37B
- PAF1
- RPL7A
- RPS2
- SNF6
- RPS24B
- RPS31
- RRP14
- SSB2
- POB8
- KRE33
- REX4
- TSR2
- NOP53
- MAK5
- UTP10
- RRP17
- UTP20
- REX2
- PNO1
- MAK16
- DBP2
- YLR177W
- RIO1
- SPB1
- RIO2
- HCA4
- RPS14B
- RRP5
- YNL224C
- NOP6
- RPS9A
- RPS23B
- NOP14
- UTP30
- UTP5
- NOP2
- RLP7
- REX3
- RPS14B
- UTP21
- NOP9
- SNM1
- SSD1
- FAF1
- YIL096C
- RNH70
- PUS5
- URB1
- UTP4
- RPL1A
- NUG1
- YLR063W
- FAL1
- LAS1
- RPL7B
- NGL2
- MRPS9
- TMA64
- SNU66
- RPS7B
- RPS28A
- RPL8B
- NOP15
- FUN12
- RPF2
- RLI1
- DBP7
- RPS21B
- PUS7
- SSB1
- MAK11
- HCR1
- TSR4
- NOG1
- POP5
- RCL1
- RRB1
- DBP10
- YOR006C
- RSP5
- RRP15
- UTP22
- IP13
- RRP9
- ROK1
- ENP2
- UTP9
- YGR251W
- NOB1
- MTR4
- UTP13
- POP1
- NOP4
- RRP43
- ENP1
- MDN1
- DRS1
- IMP4
- LSM3
- POP6
- LSM6
- RPS24A
- GRC3
- YBR141C
- DM1
- CBF5
- TSR1
- SLX9
- LSM4
- HIT1
- RPS1B
- RRP8
- TOM1
- GLC7
- SPB4
- RPL1B
- TIF6
- RPL37A
- RPS18B
- RPL37B
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- POP4
- RPS16B
- RVB2
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Z_Shift_K_Gem Z_Im_K_Gem Z_Shift_K_Dyt Z_Im_K_Dyt Z_Shift_L_Gem Z_Im_L_Gem Z_Shift_L_Dyt Z_Im_L_Dyt

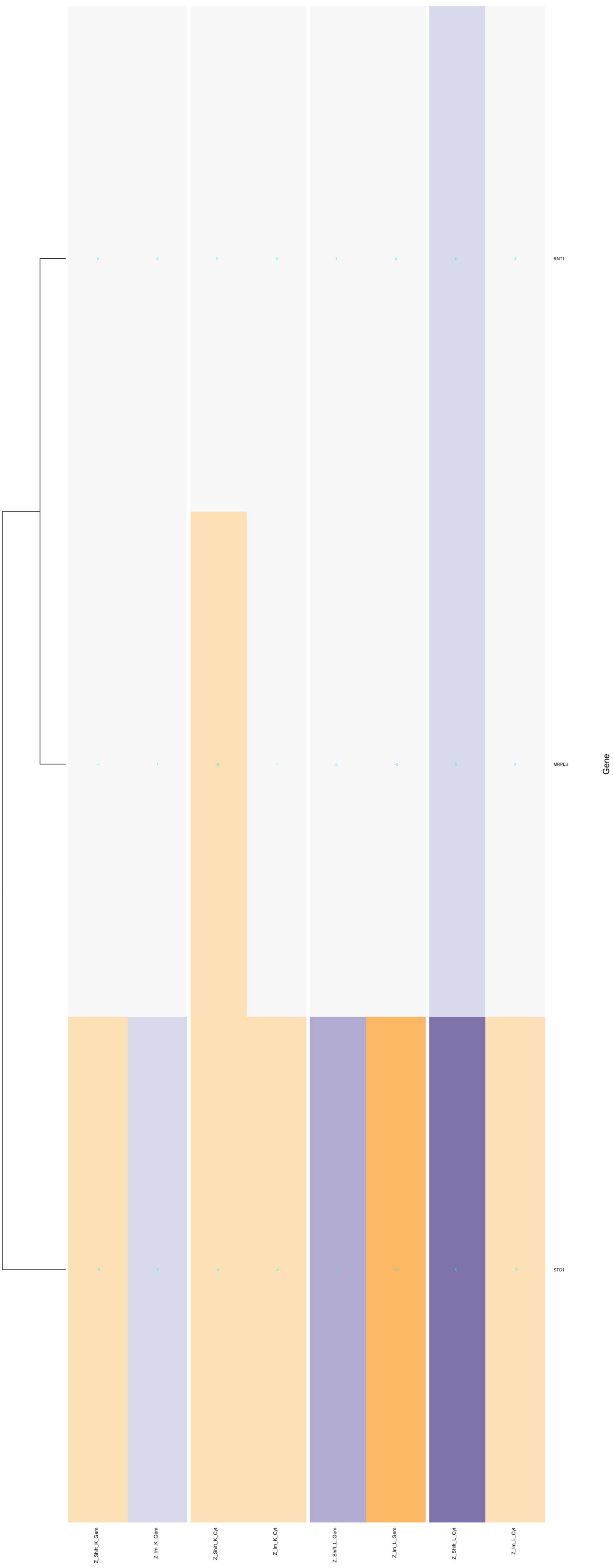
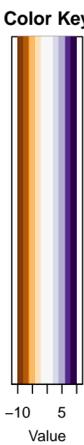
tRNA processing



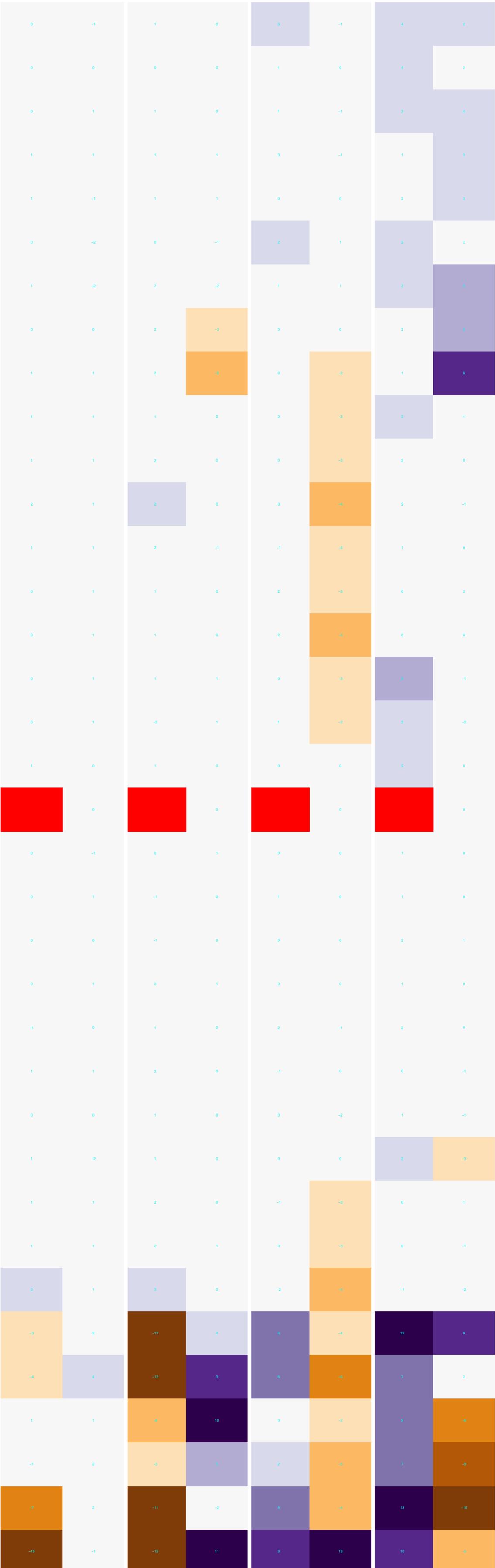
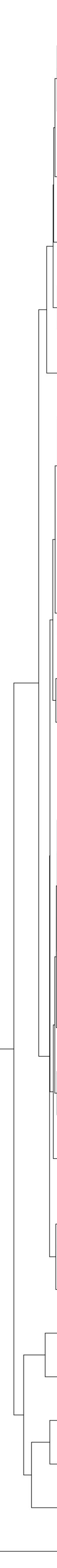
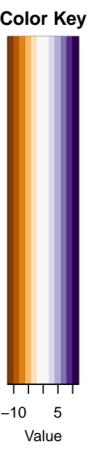
snRNA processing



primary miRNA processing

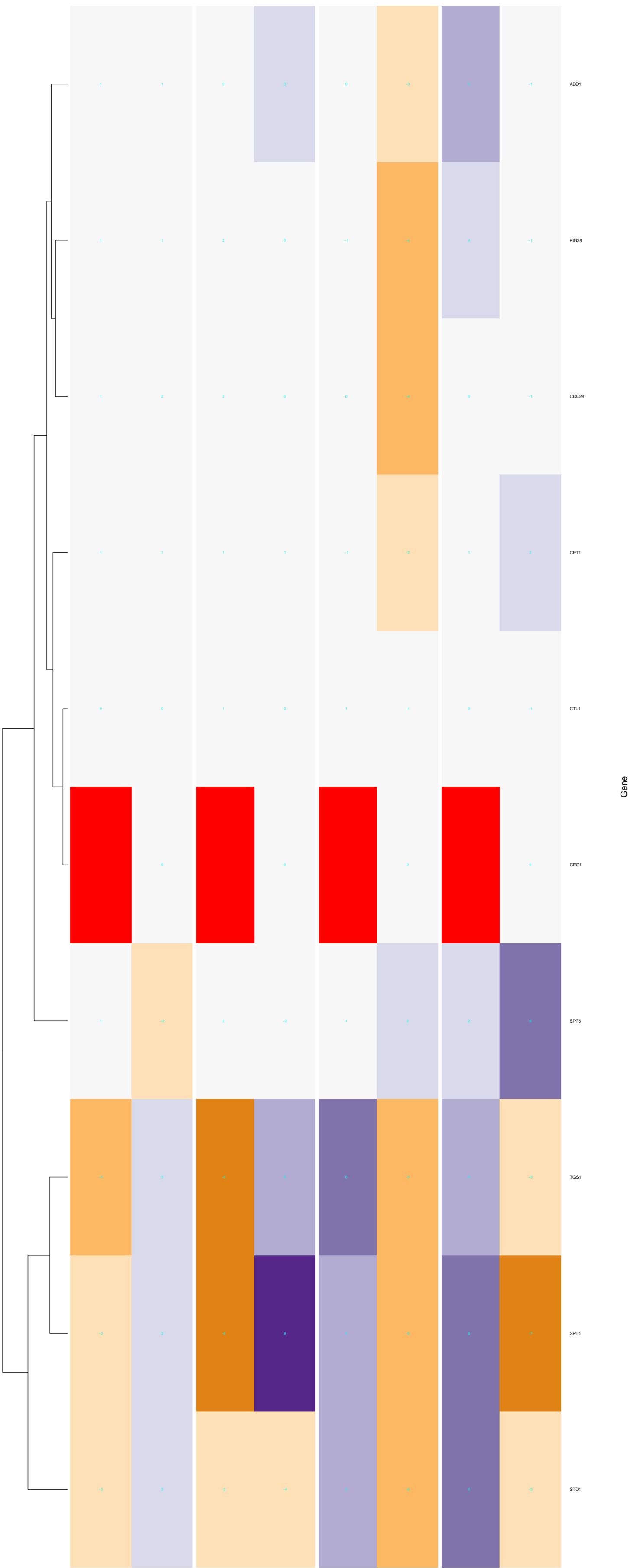
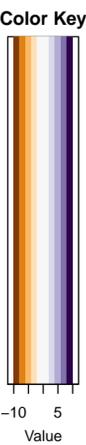


snoRNA processing

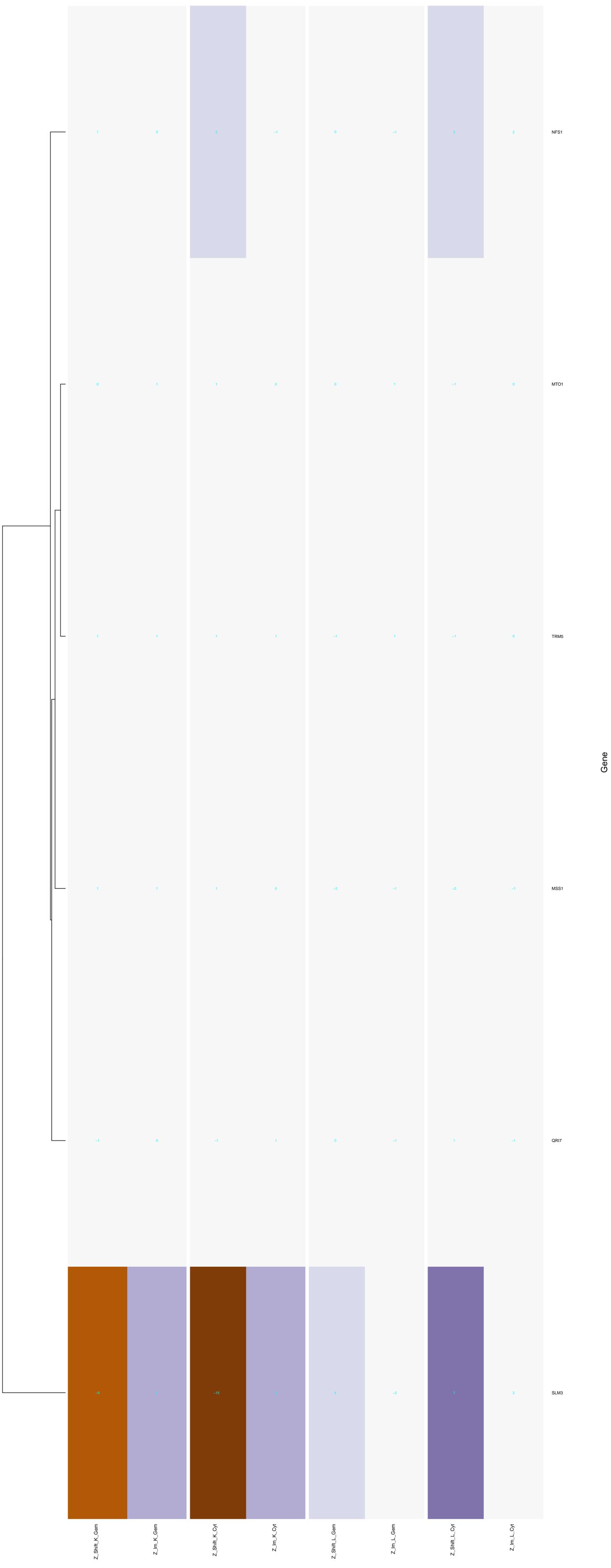
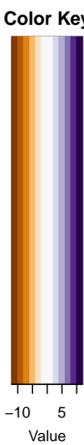


Gene

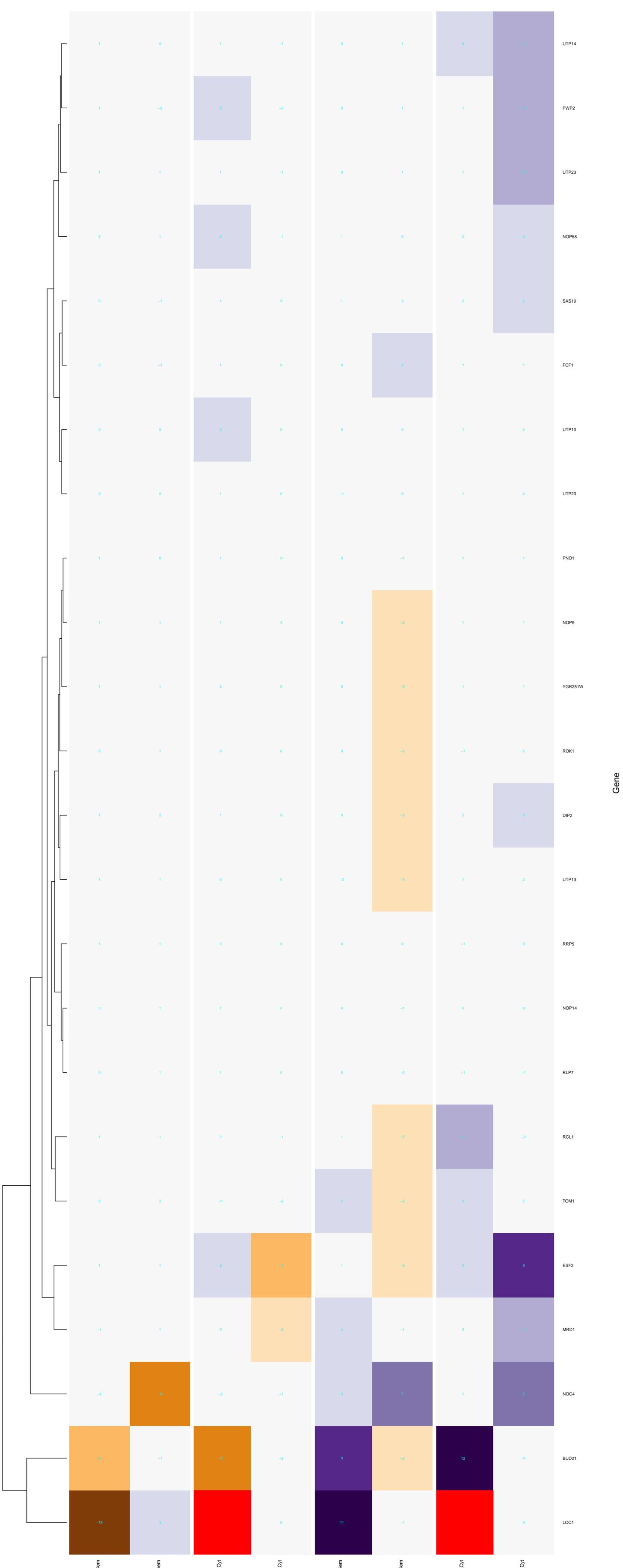
7-methylguanosine RNA capping



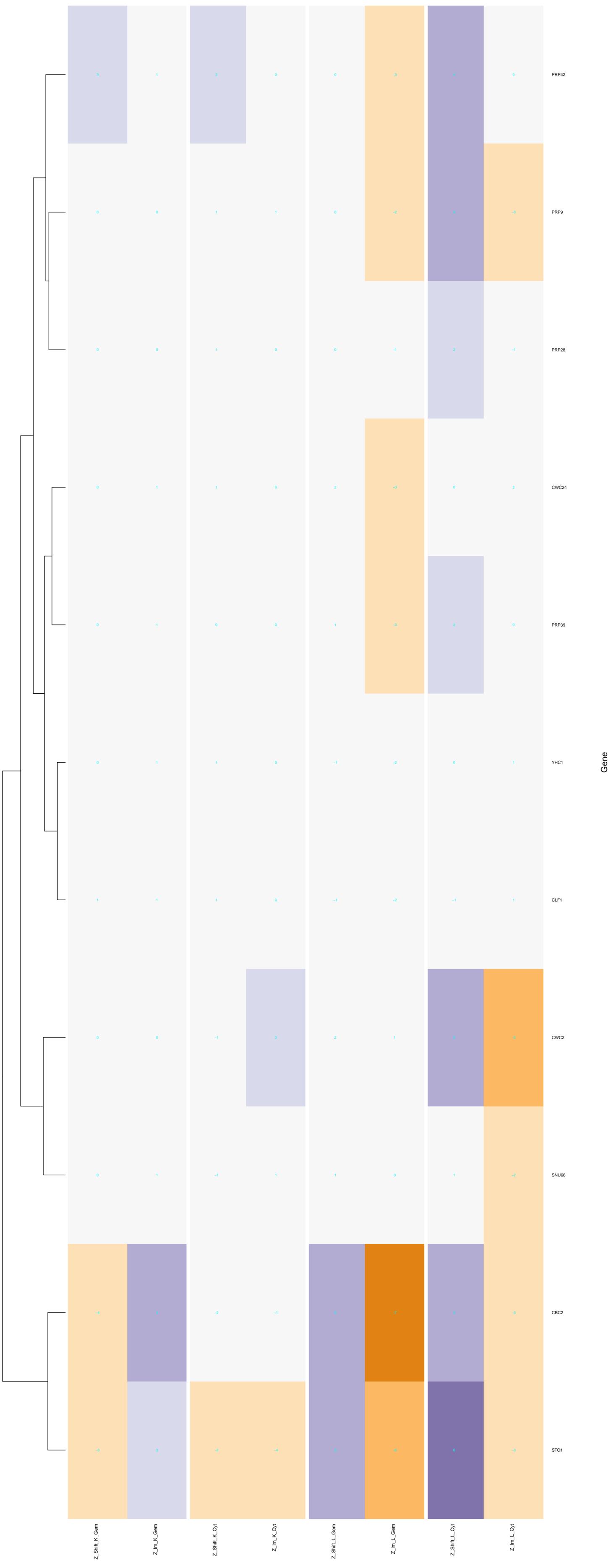
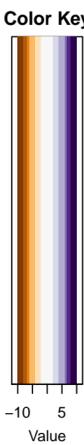
mitochondrial tRNA modification



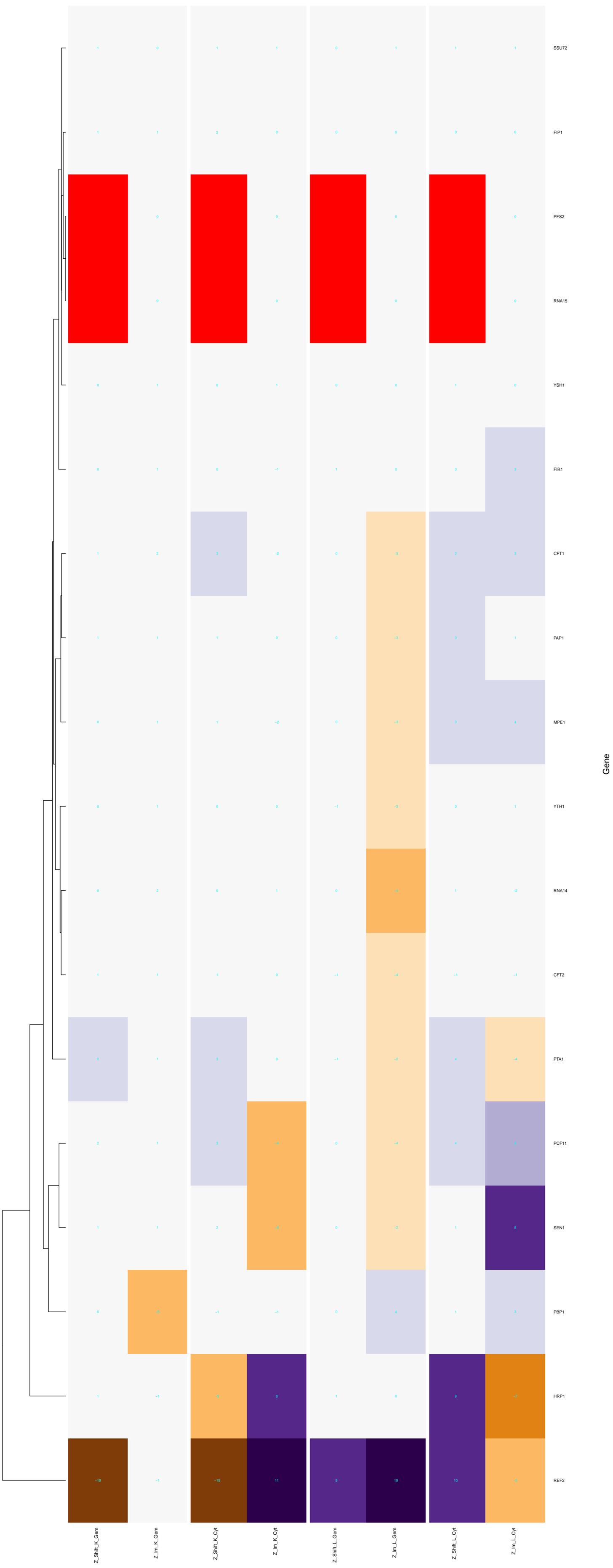
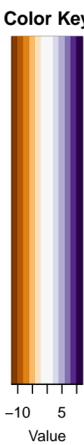
rRNA 5'-end processing



mRNA cis splicing, via spliceosome

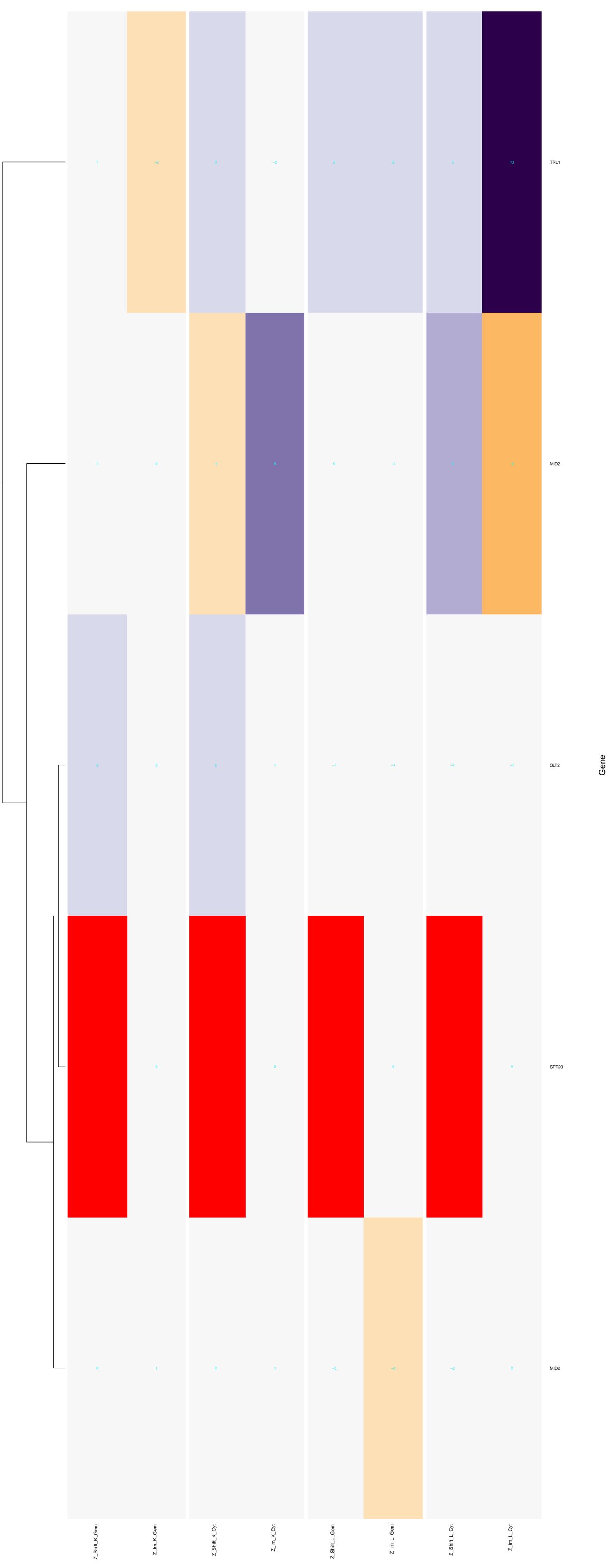


mRNA polyadenylation



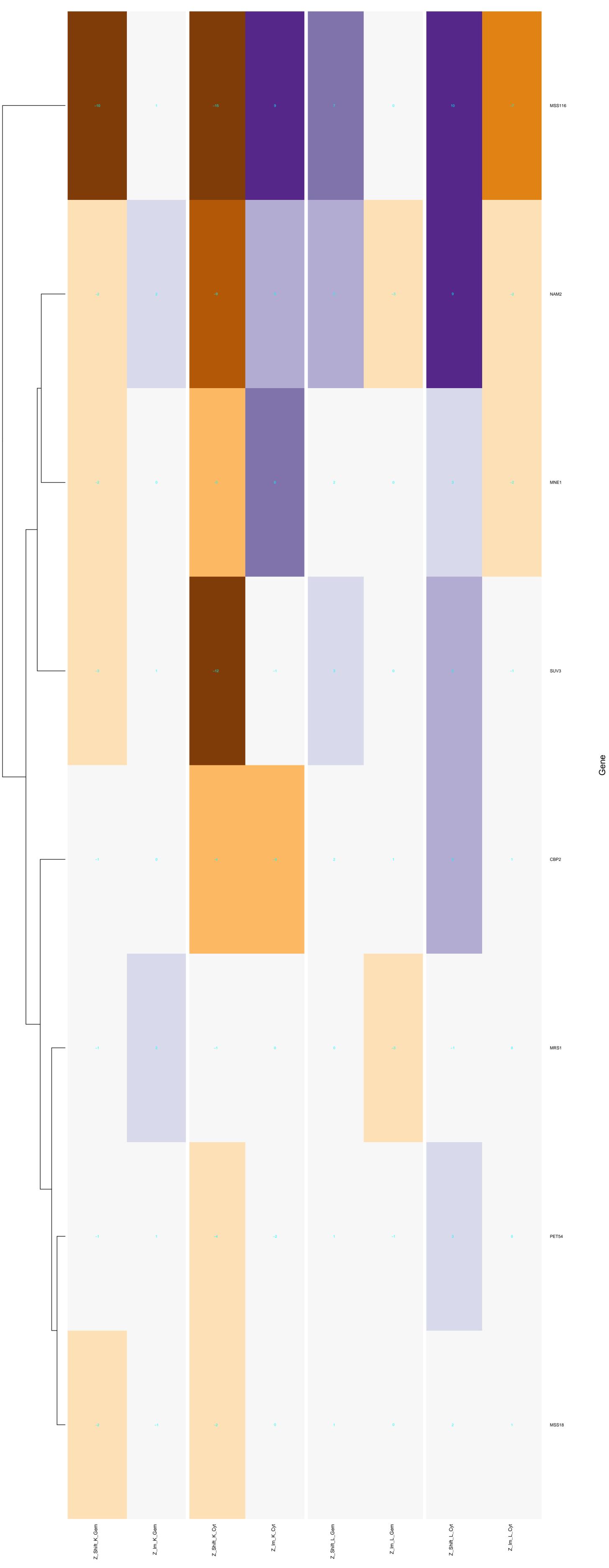


plicing via endonucleolytic cleavage and ligation involved in unfolded protein response





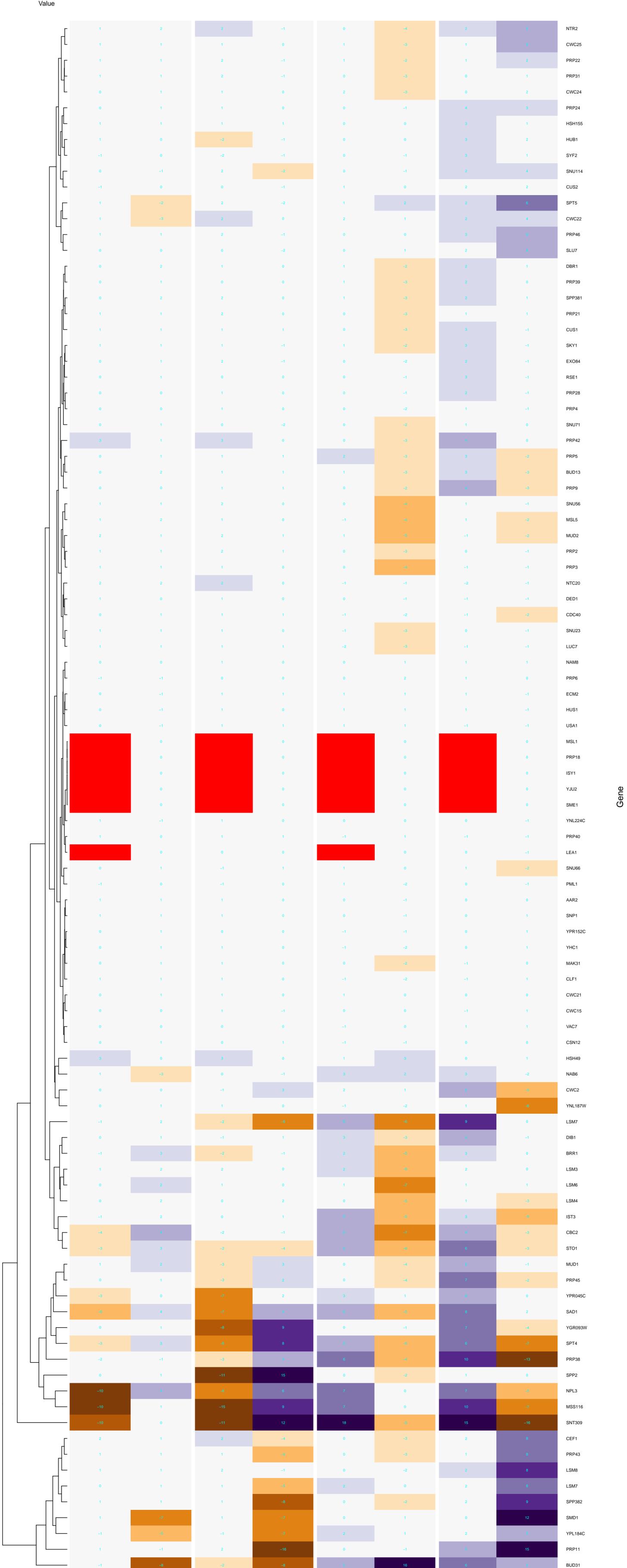
RNA splicing, via transesterification reactions with guanosine as nucleophile



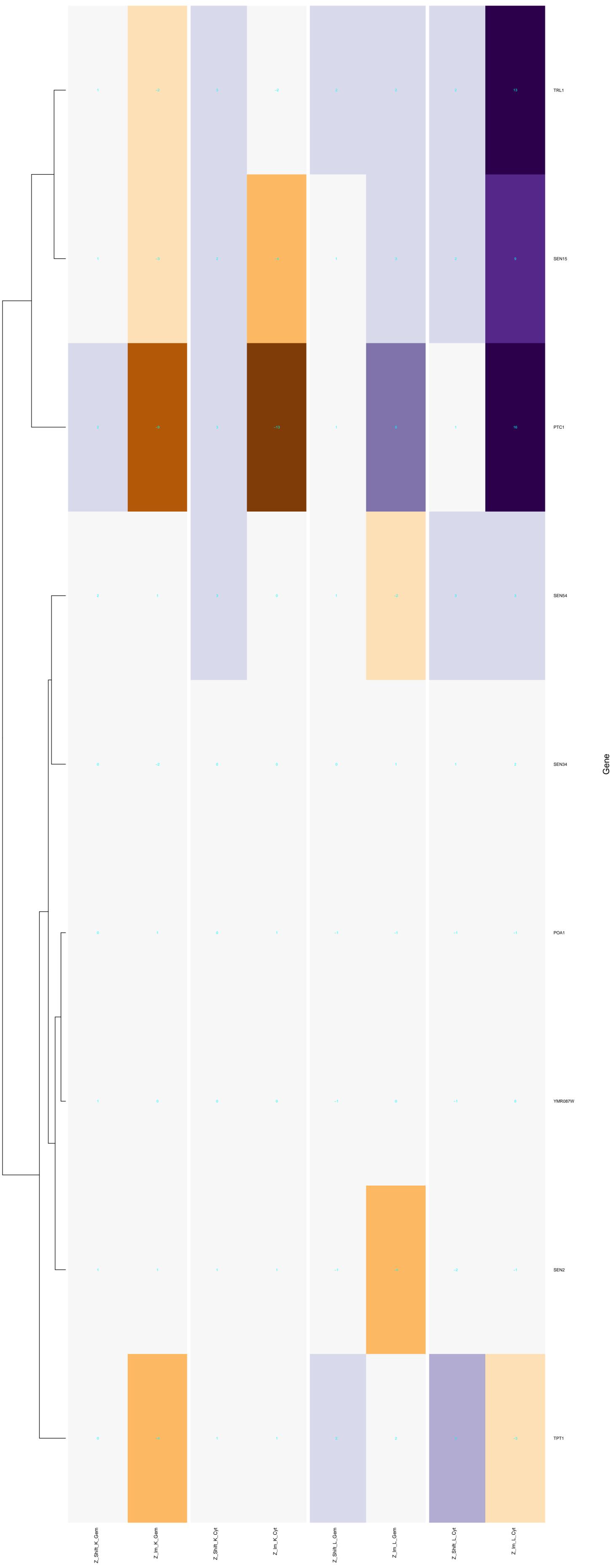
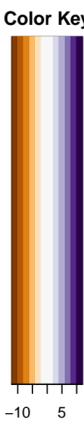
Gene



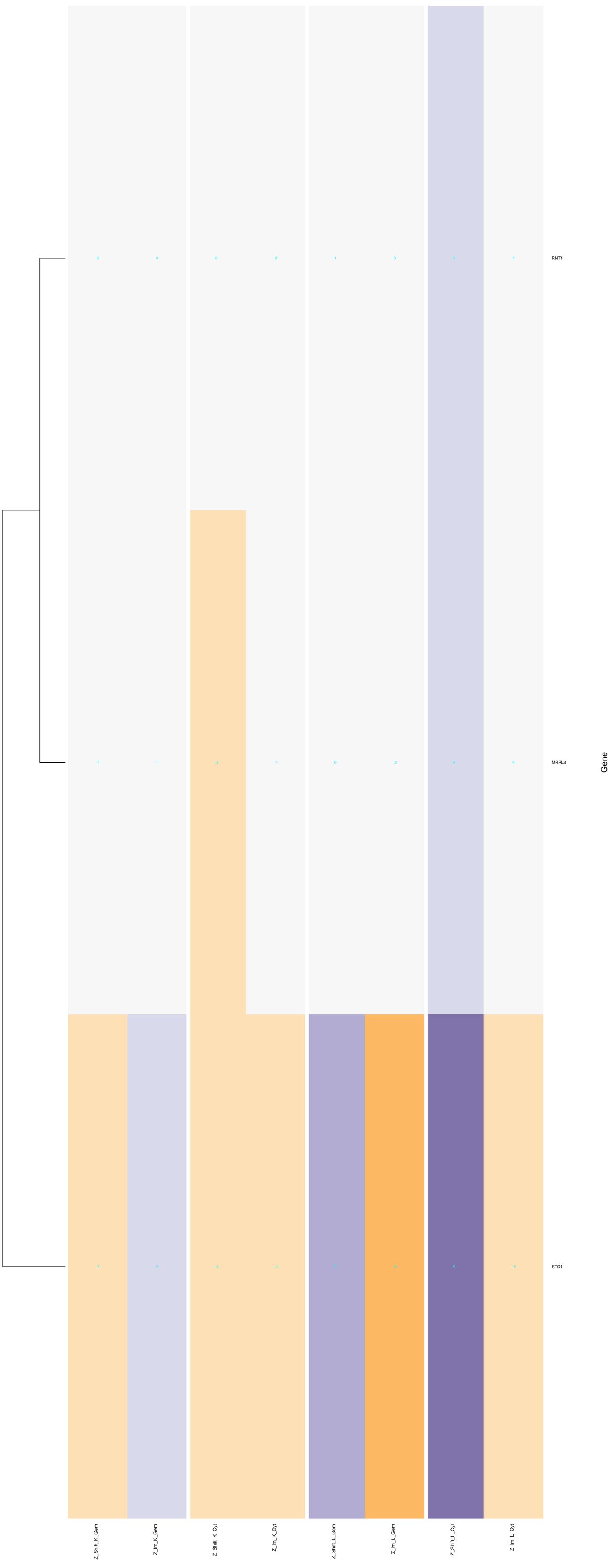
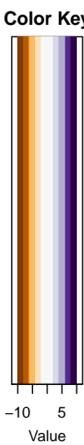
A splicing, via transesterification reactions with bulged adenosine as nucleophile



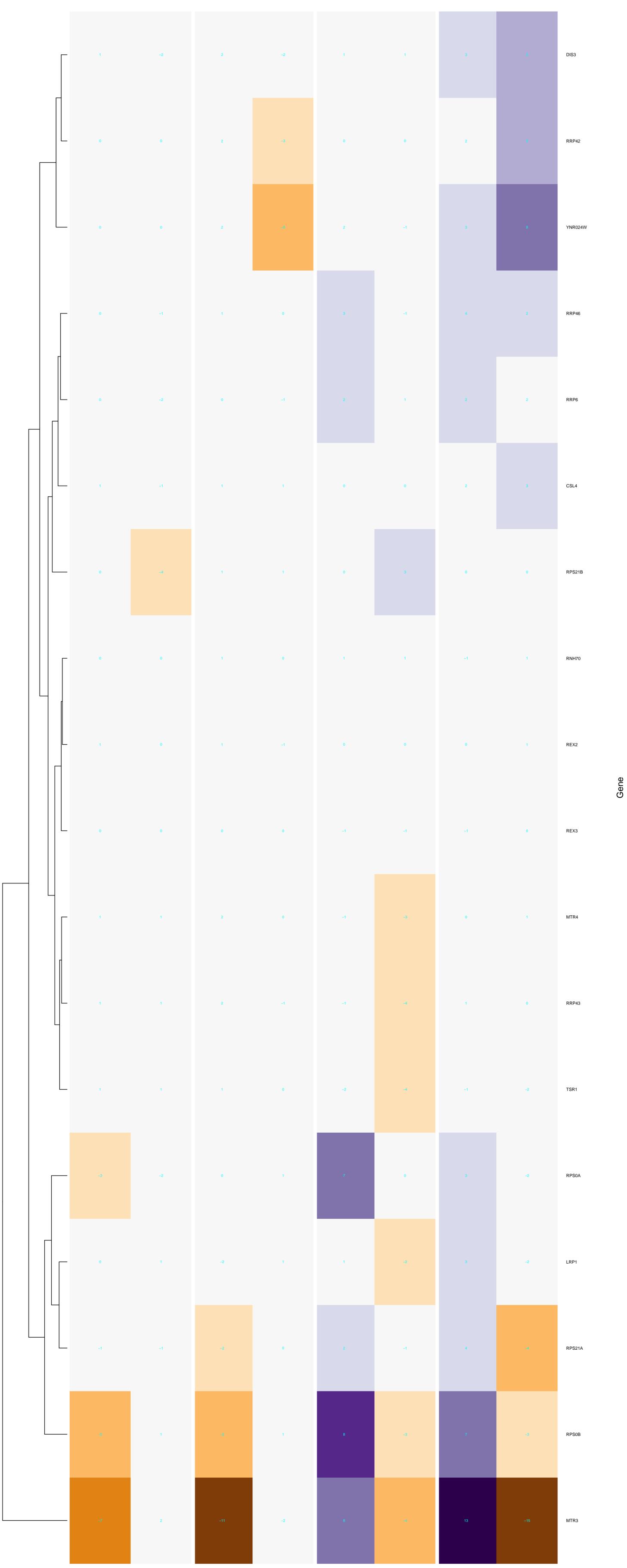
tRNA splicing, via endonucleolytic cleavage and ligation



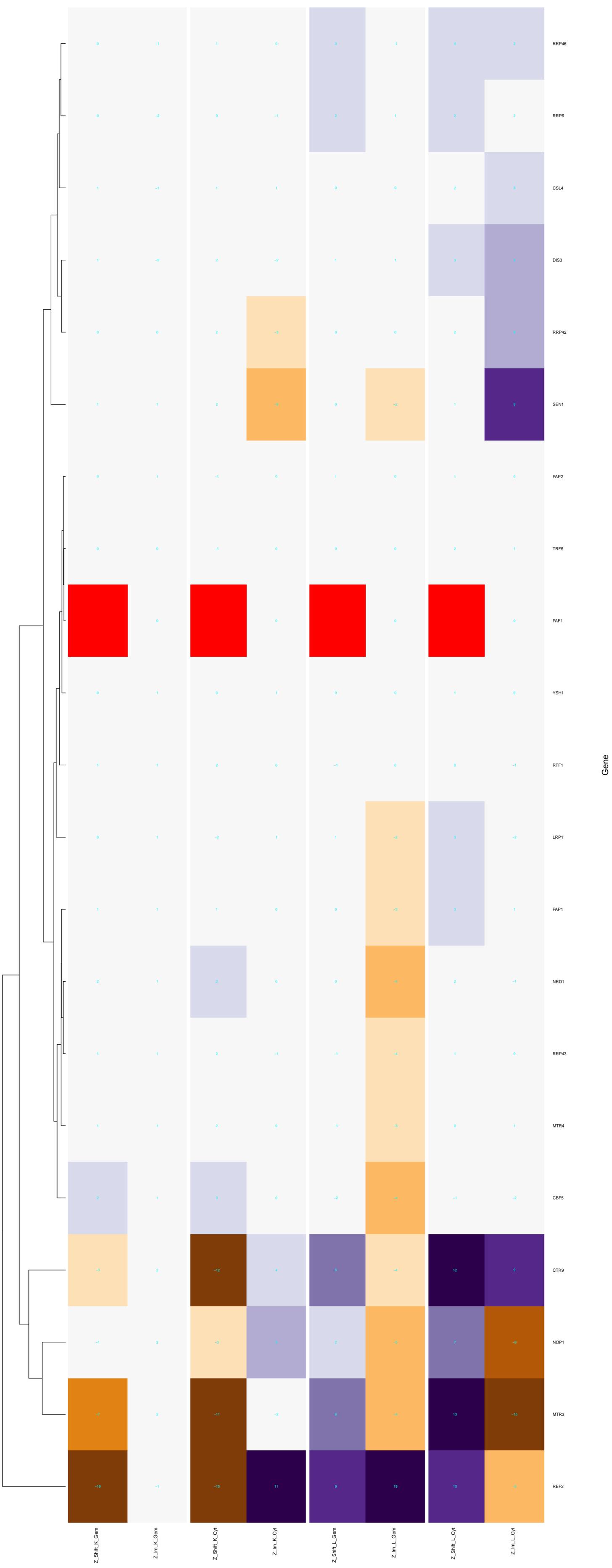
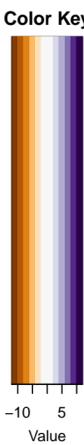
production of miRNAs involved in gene silencing by miRNA



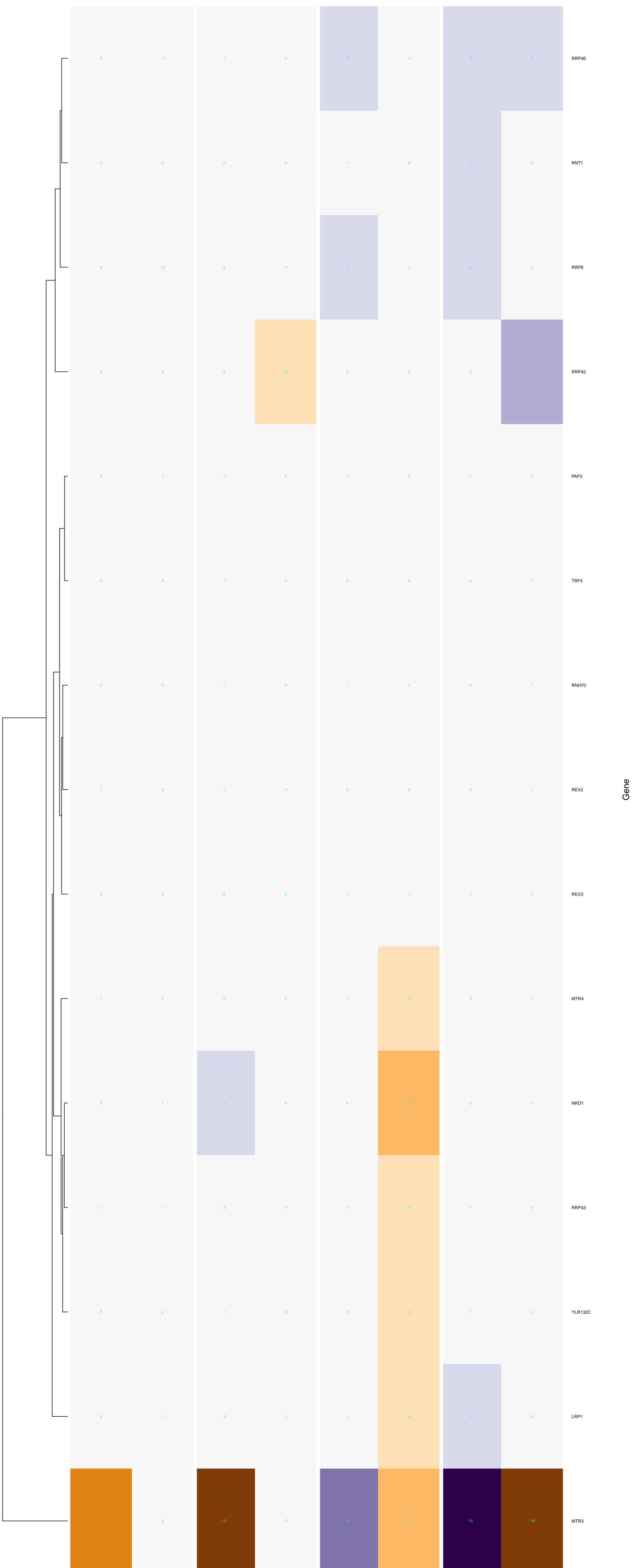
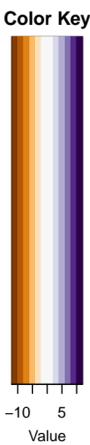
rRNA 3'-end processing



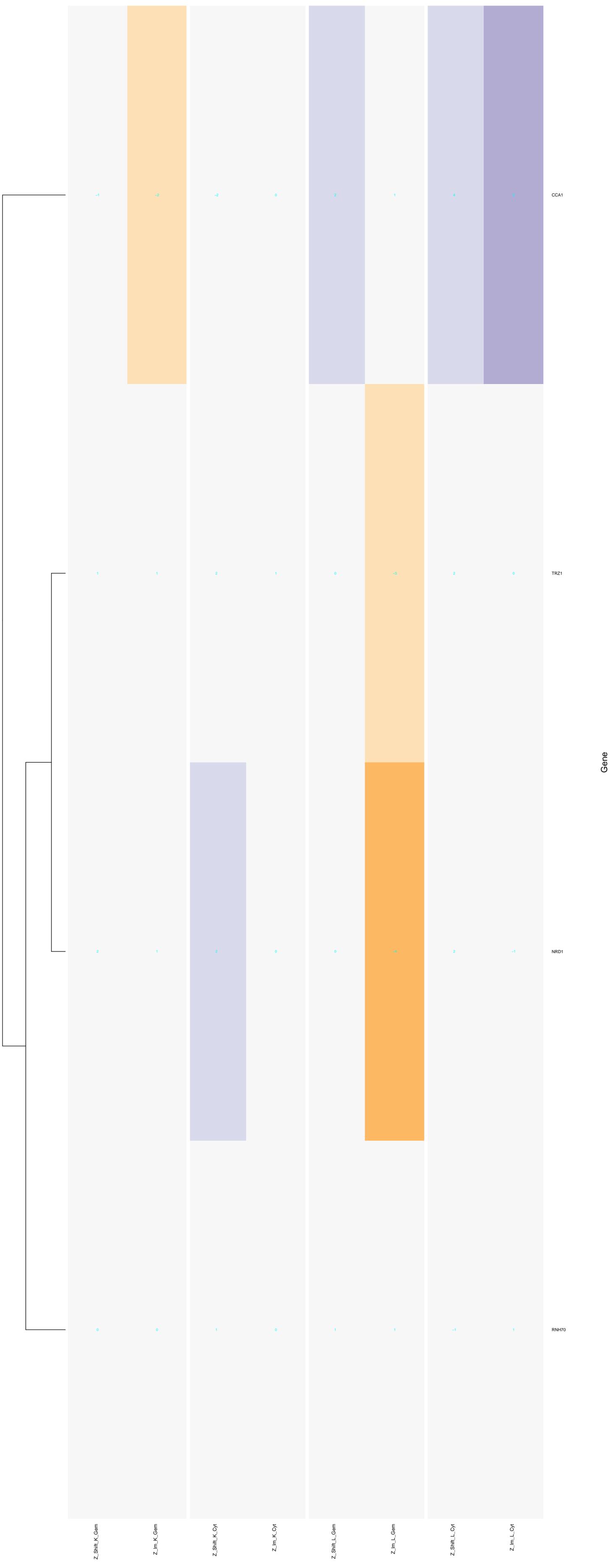
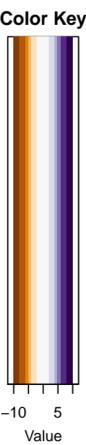
snRNA 3'-end processing



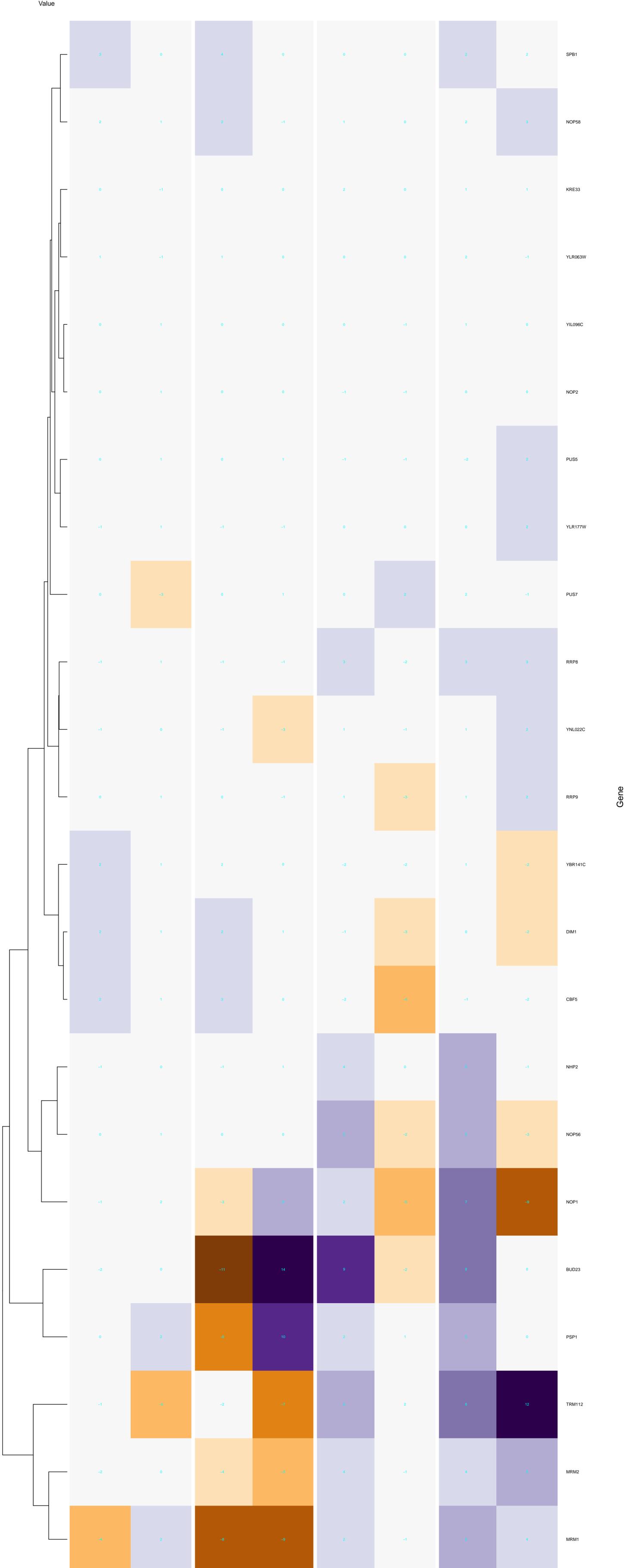
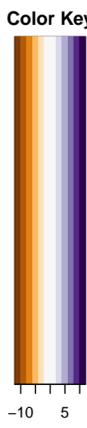
snRNA 3'-end processing



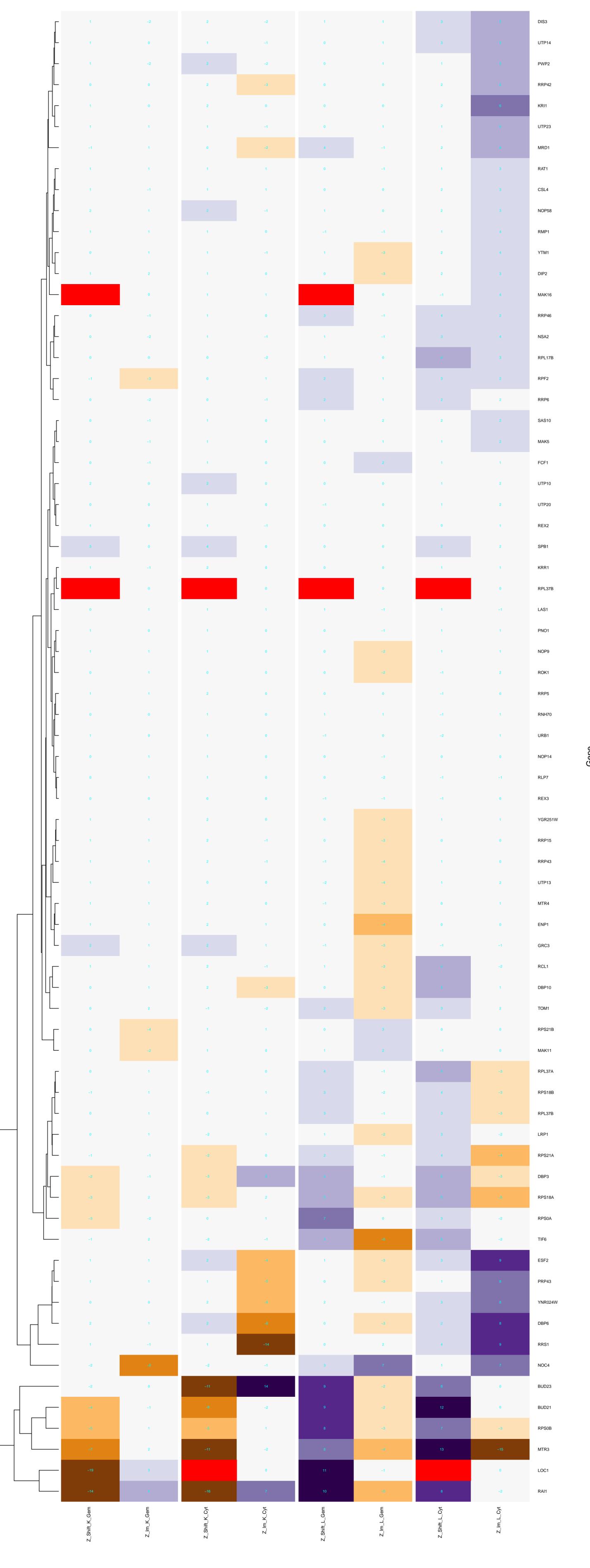
tRNA 3'-end processing



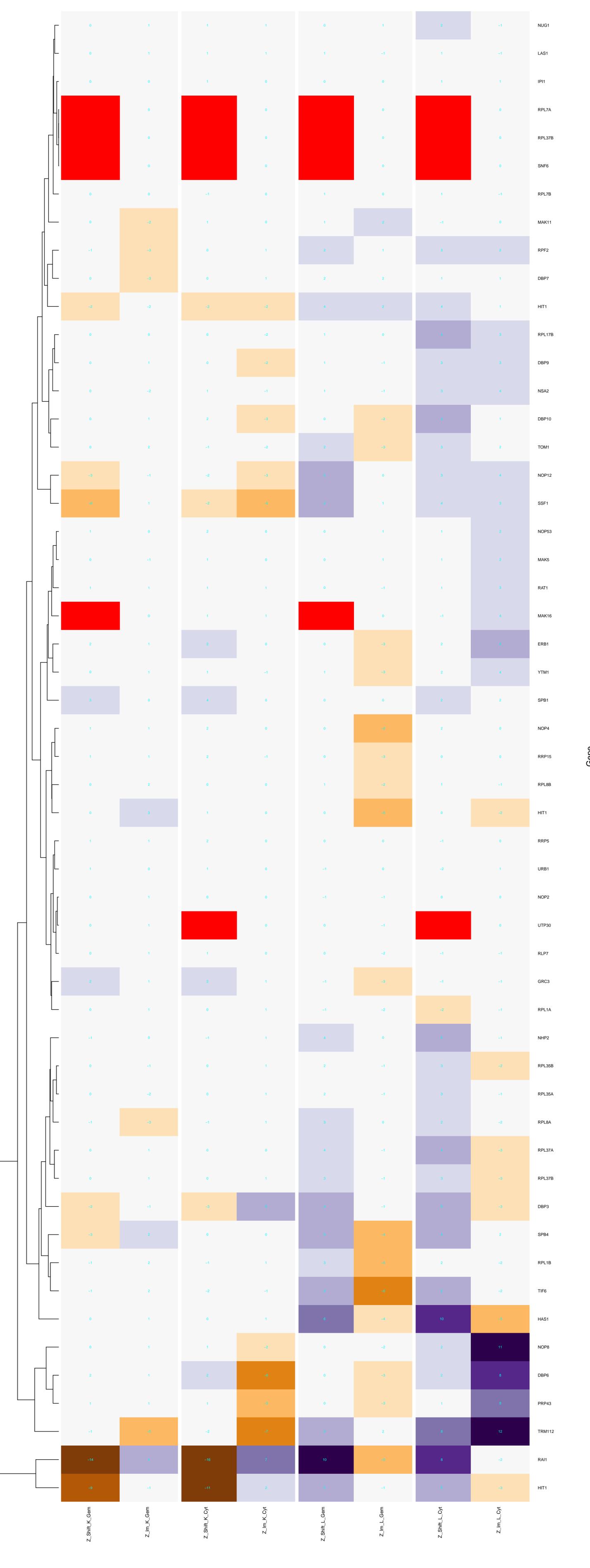
rRNA modification



maturation of 5.8S rRNA

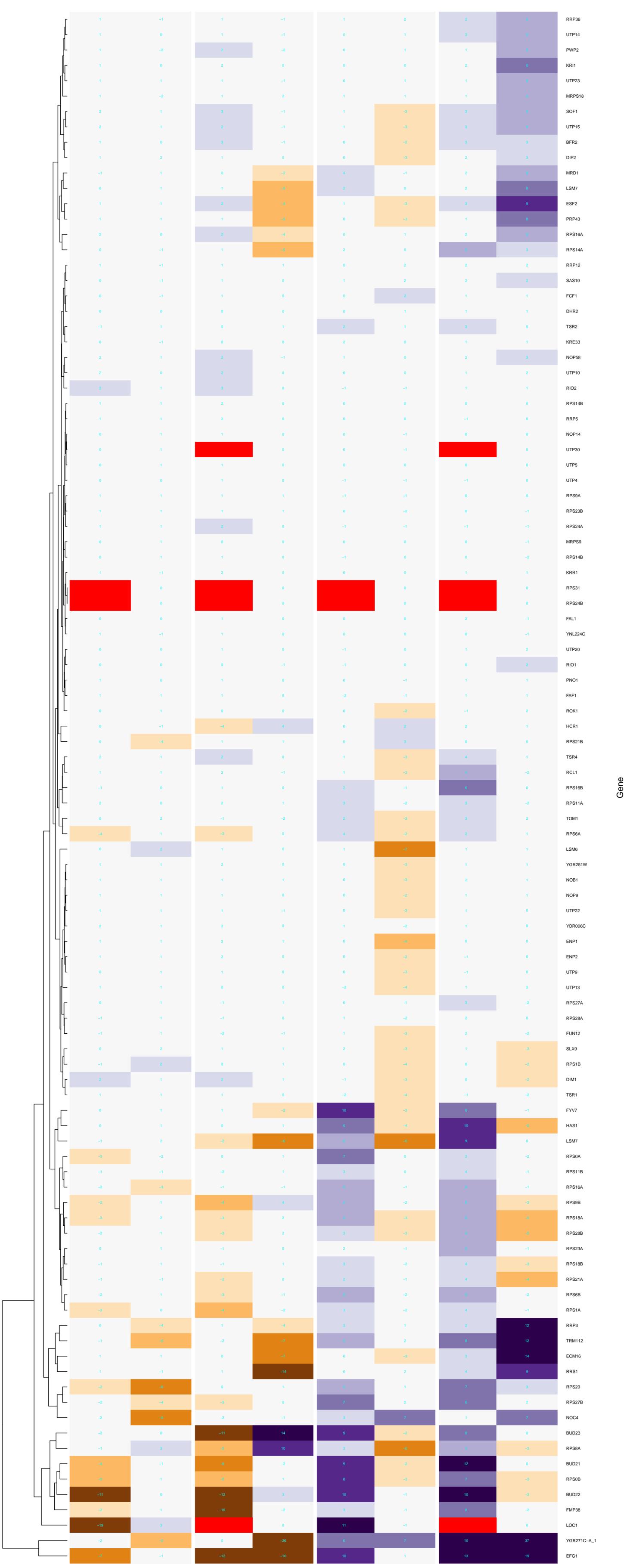


maturation of LSU-rRNA

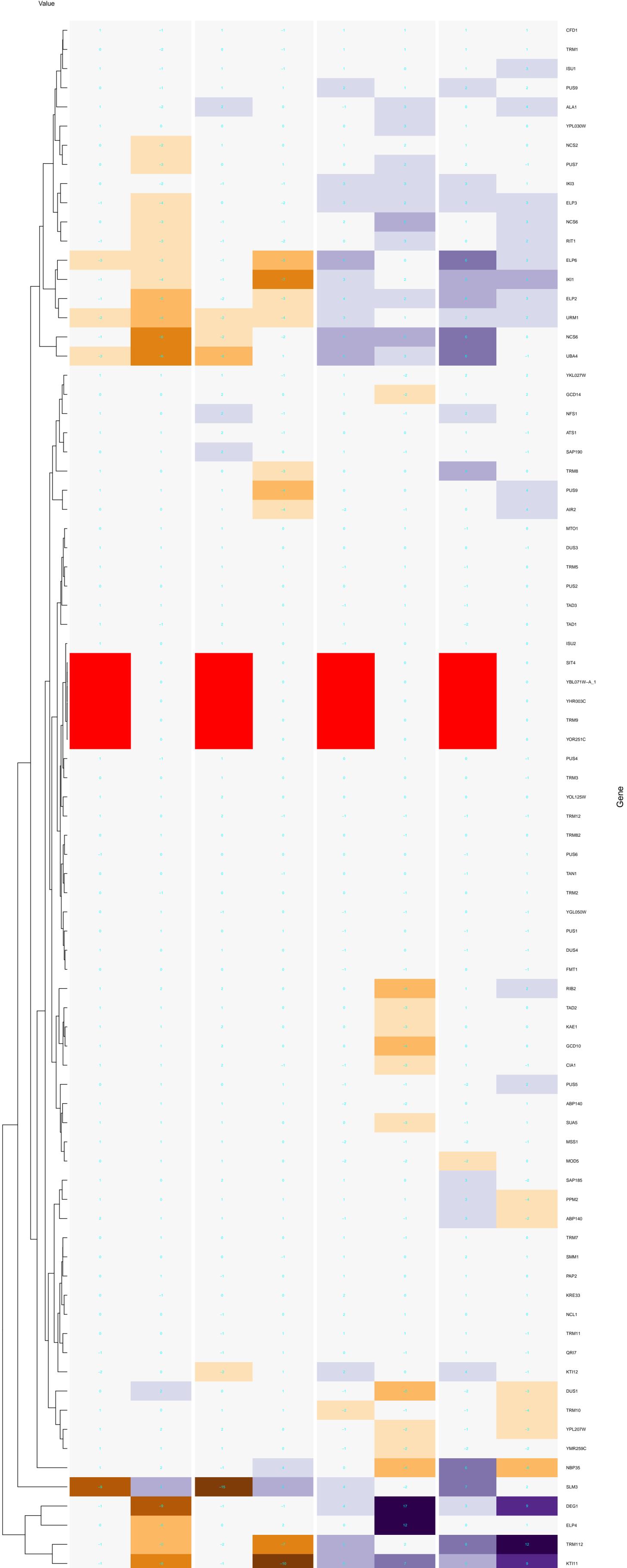
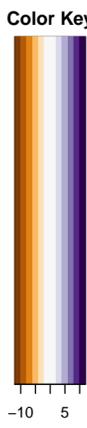


Gene

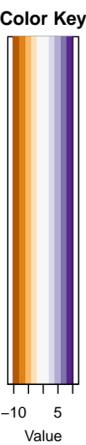
maturation of SSU-rRNA



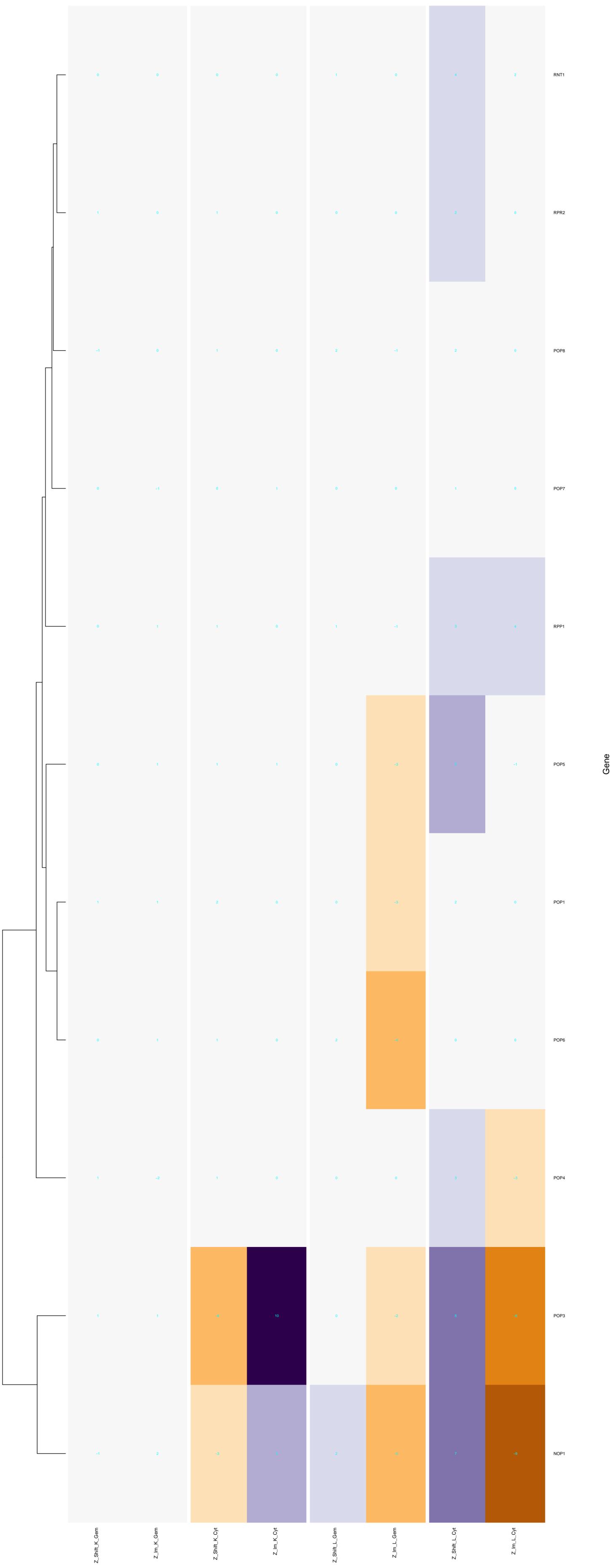
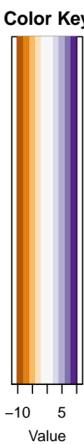
tRNA modification



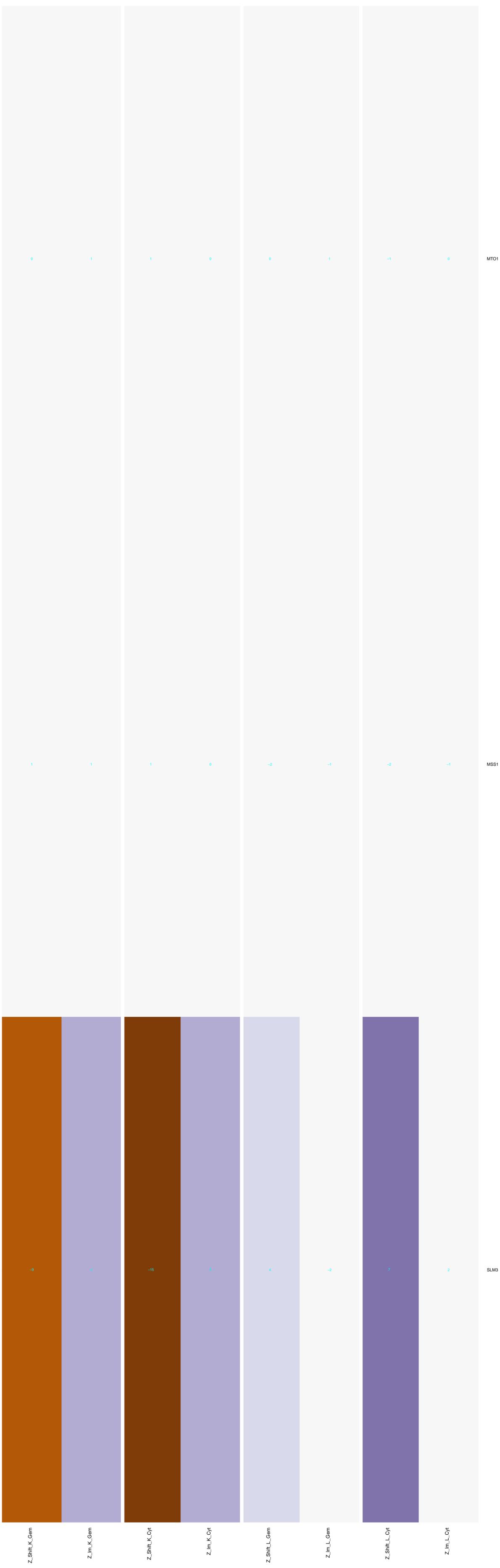
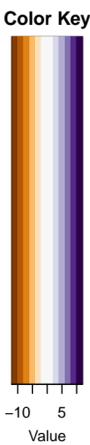
intronic snoRNA processing



box C/D snoRNA processing



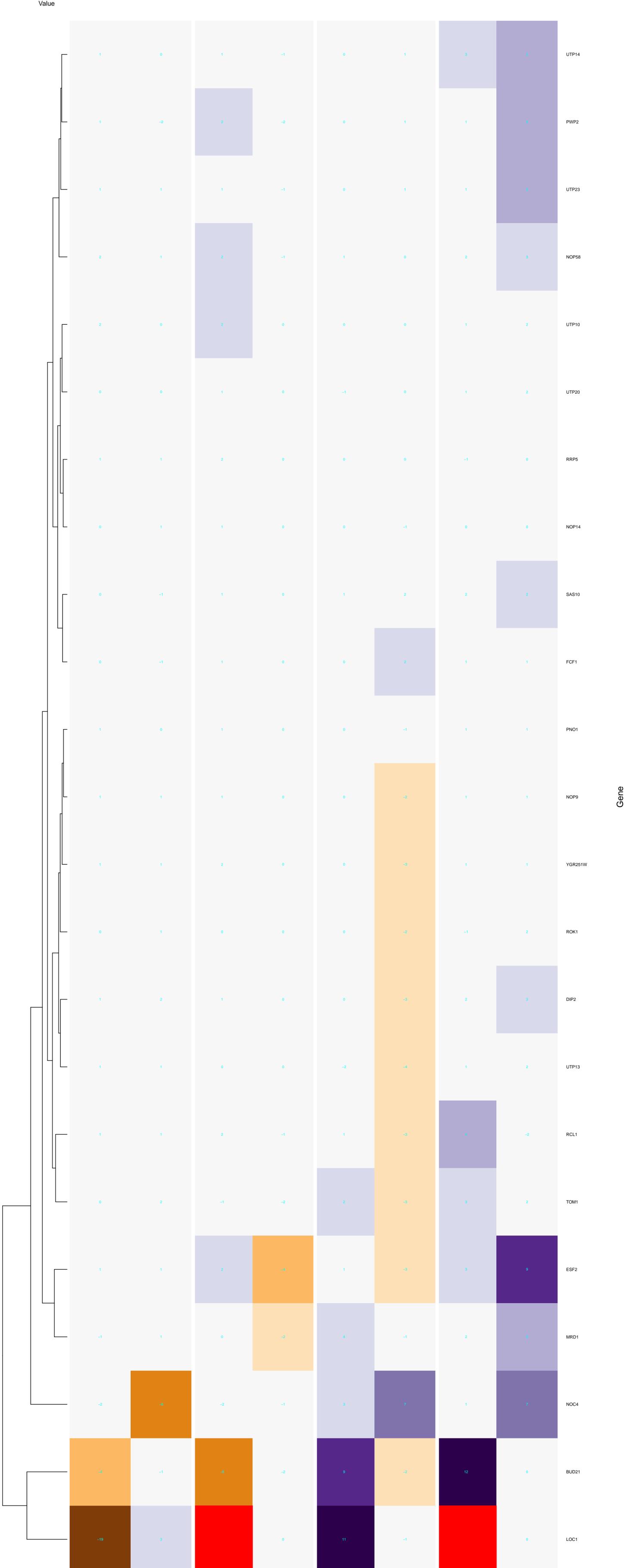
mitochondrial tRNA wobble uridine modification



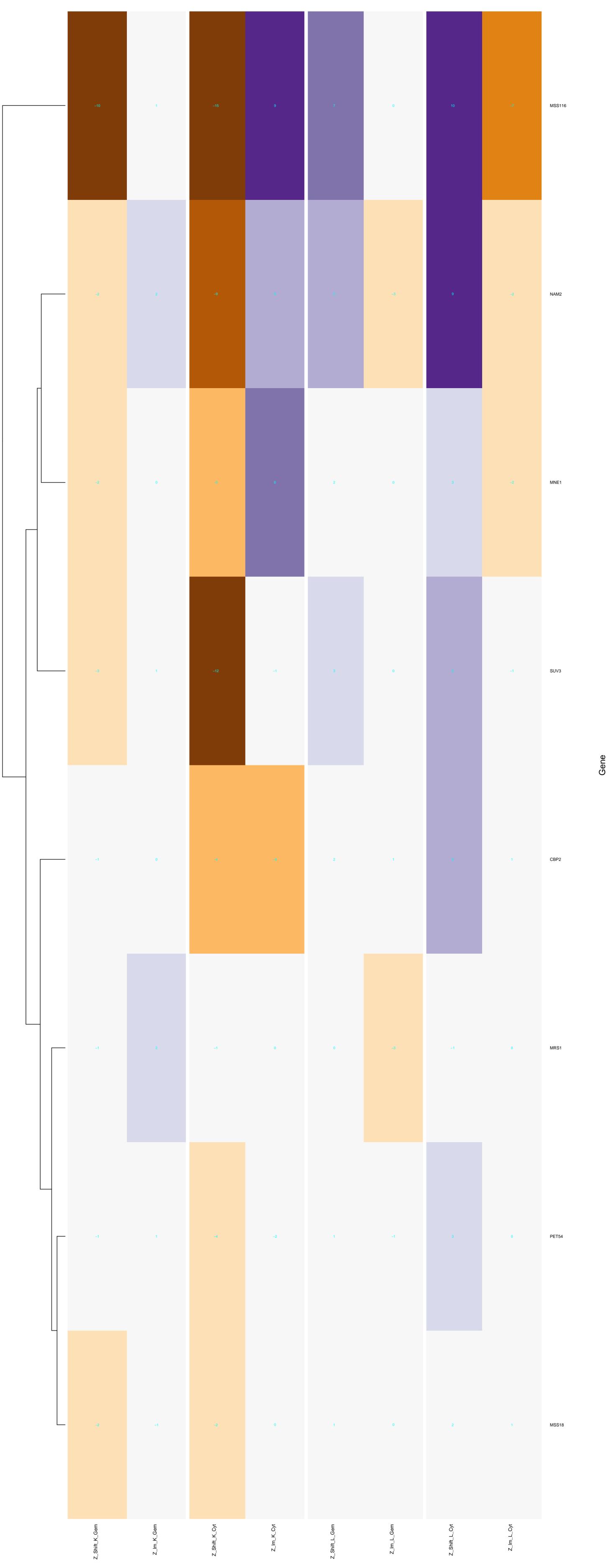
Gene



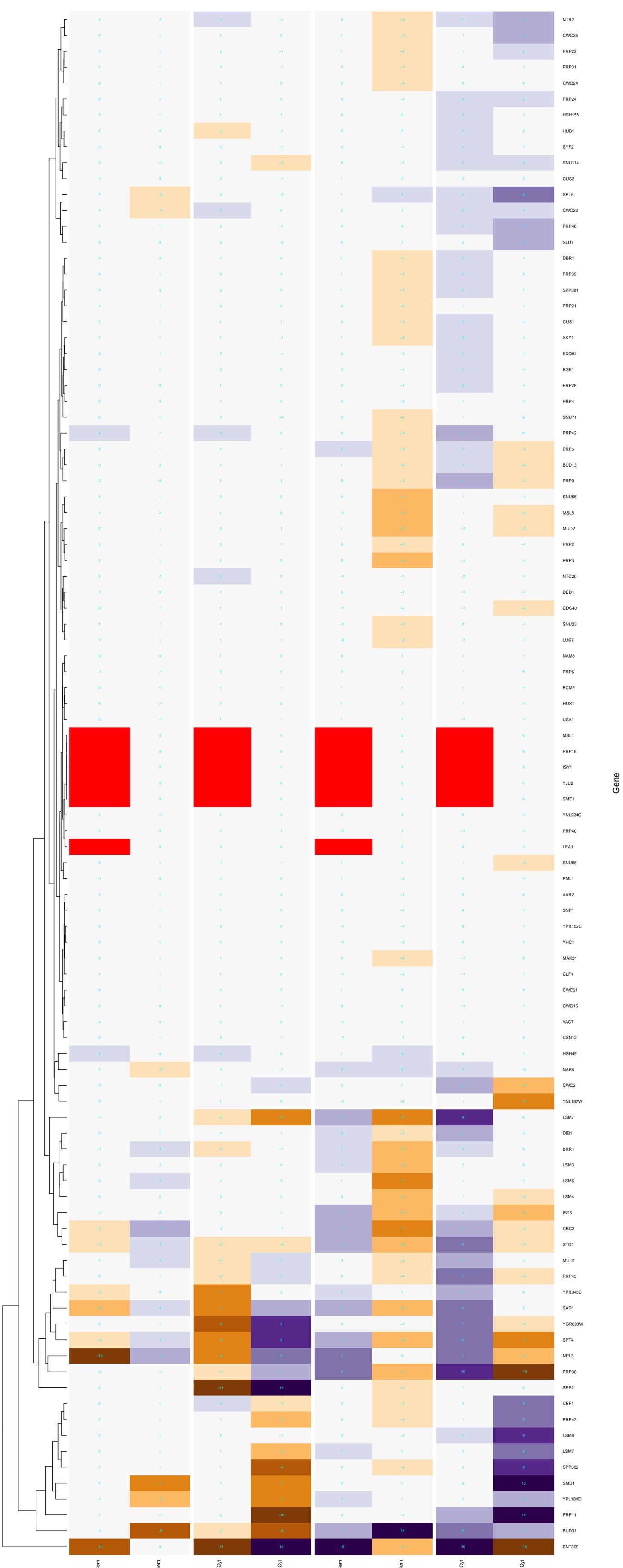
c cleavage to generate mature 5'-end of SSU-rRNA from (SSU-rRNA, 5.8S rRNA, LSU-rRNA)

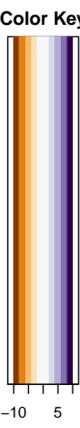


Group I intron splicing

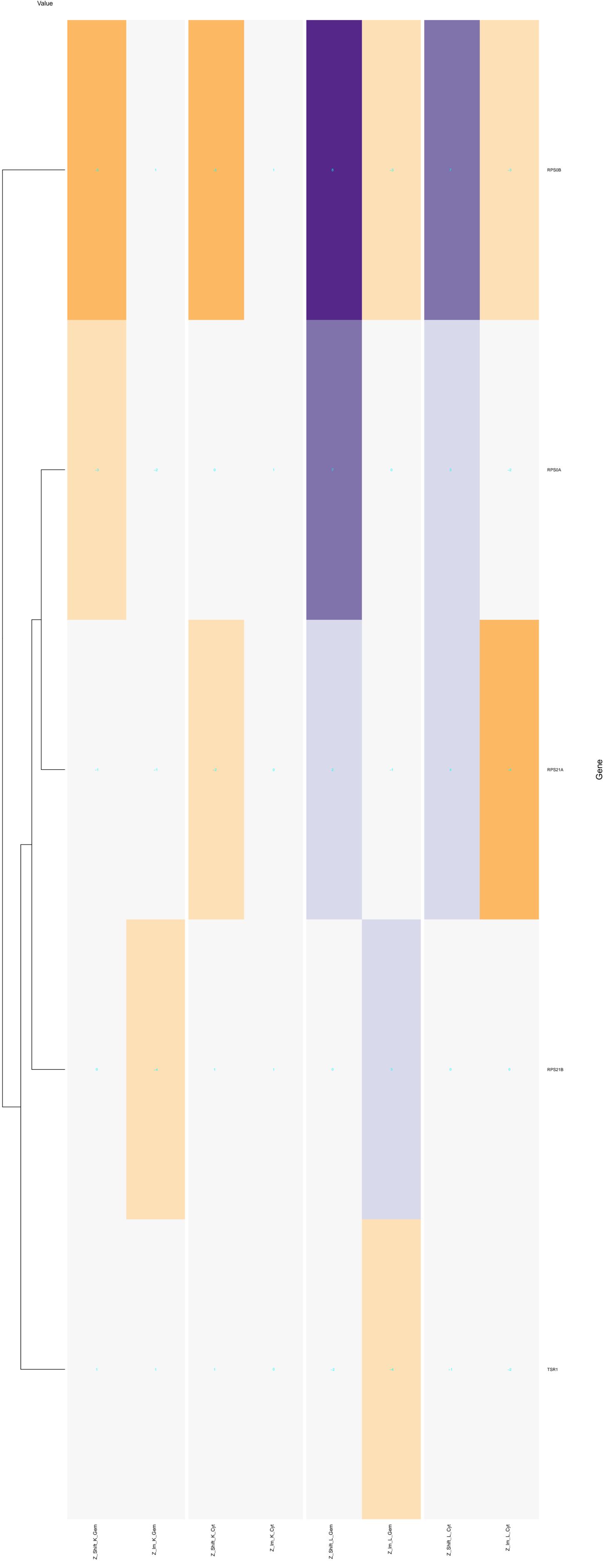


mRNA splicing, via spliceosome



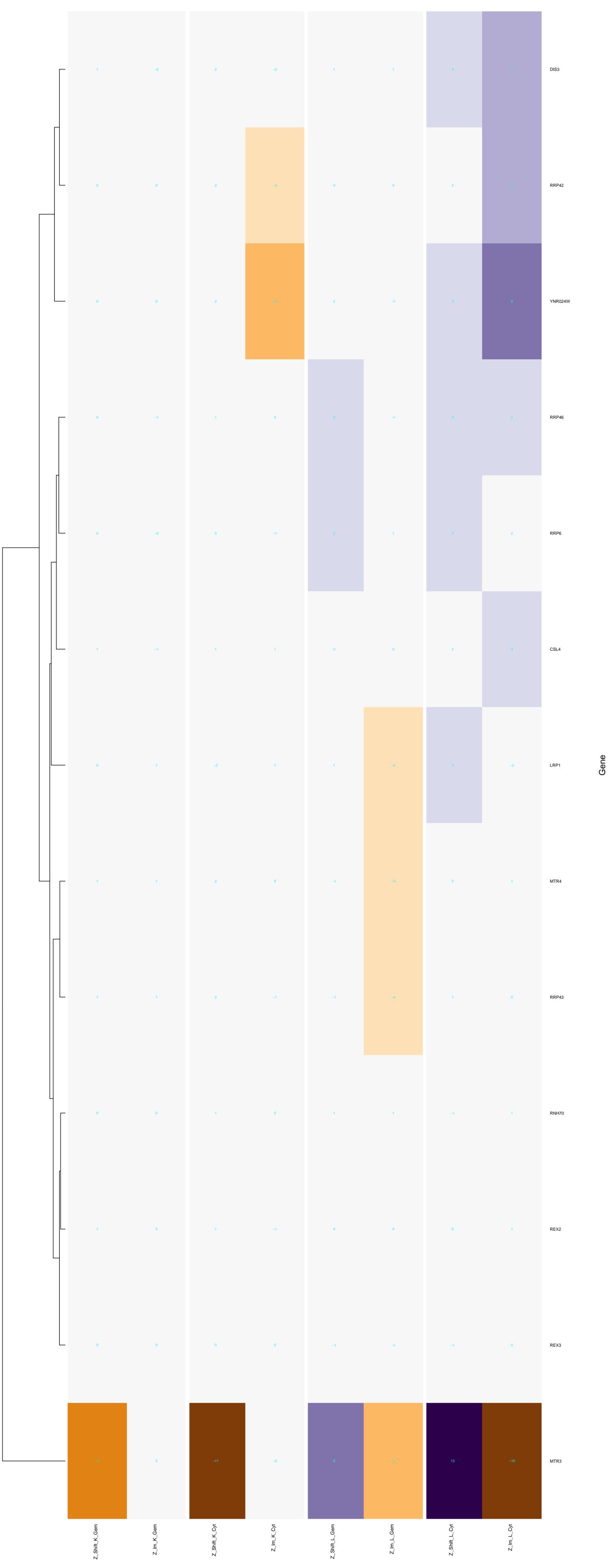


c cleavage to generate mature 3'-end of SSU-rRNA from (SSU-rRNA, 5.8S rRNA, LSU-rRNA)

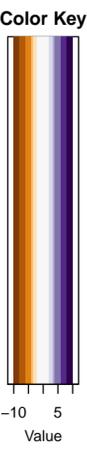




generate mature 3'-end of 5.8S rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, 5.8S rRNA)

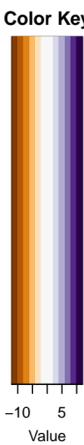


snRNA polyadenylation

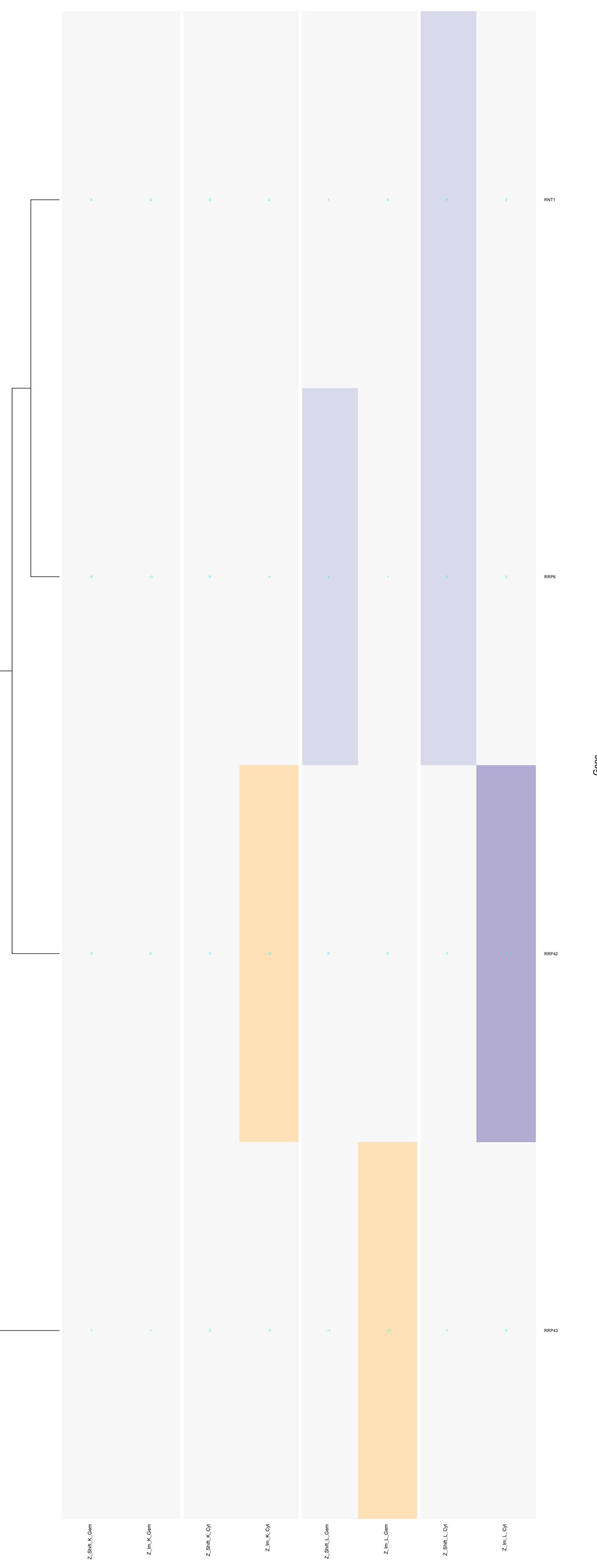
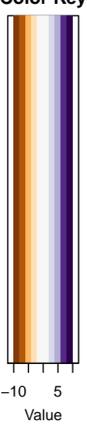


Gene

polyadenylation-dependent snoRNA 3'-end processing



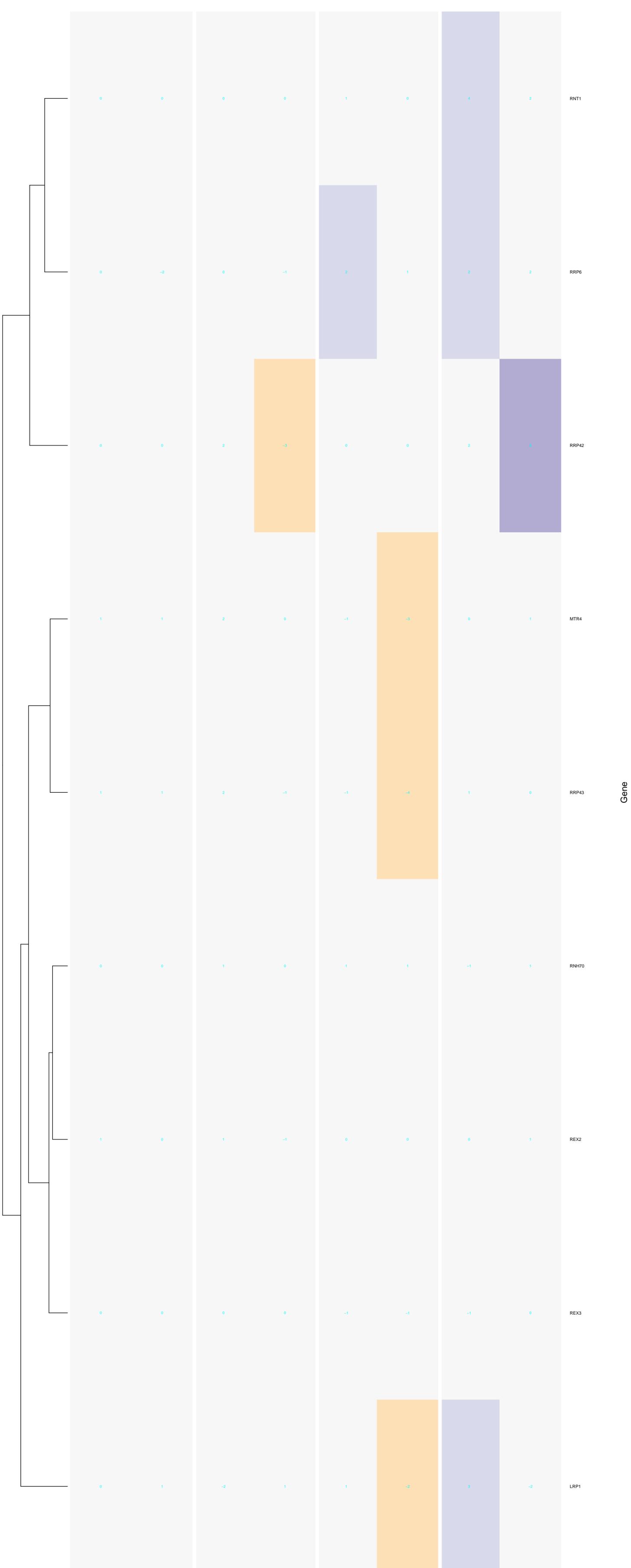
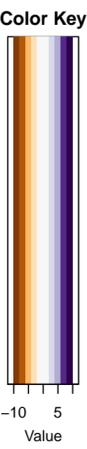
U1 snRNA 3'-end processing



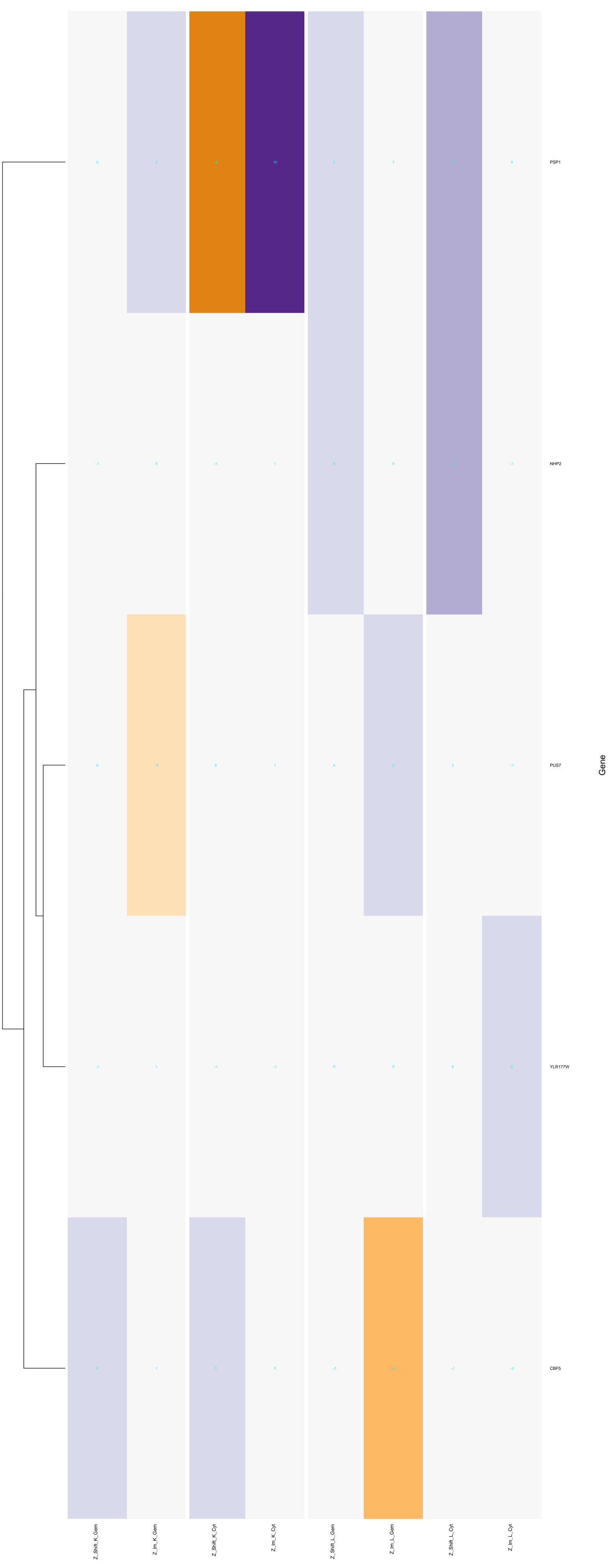
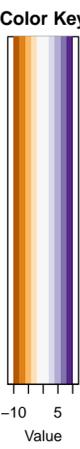
U4 snRNA 3'-end processing



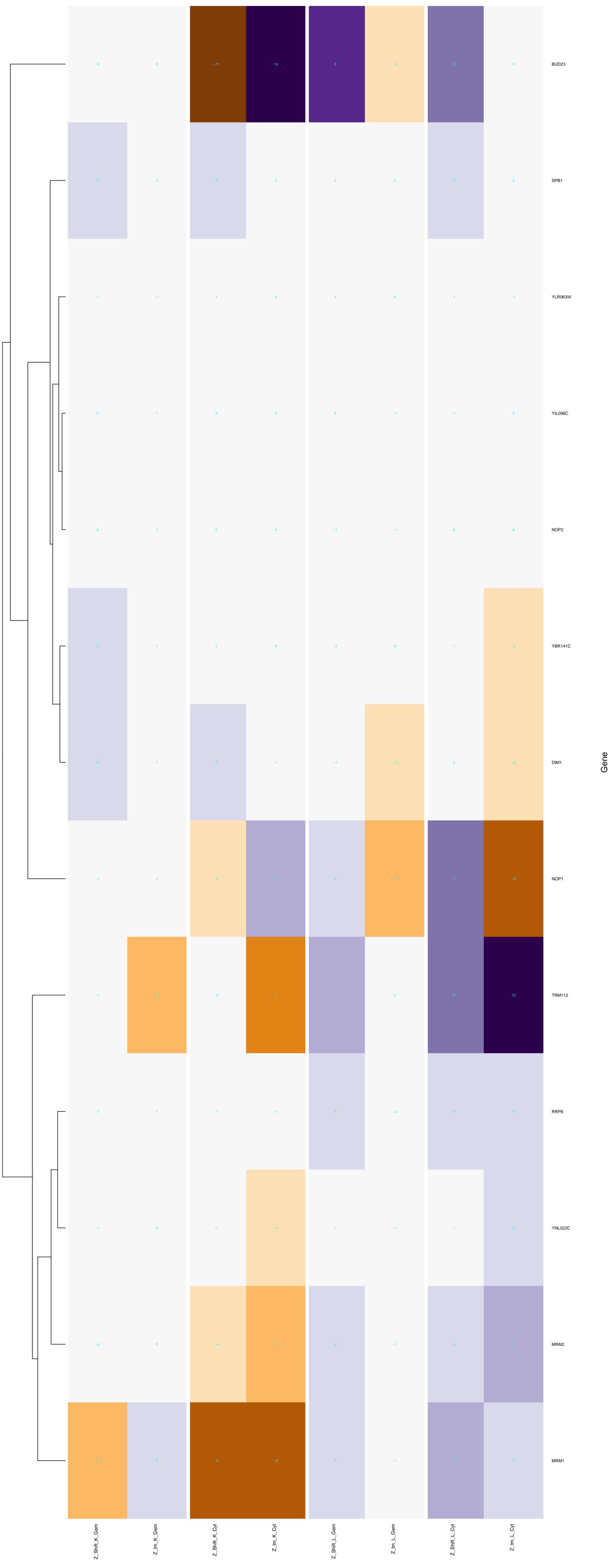
U5 snRNA 3'-end processing



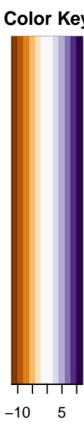
rRNA pseudouridine synthesis



rRNA methylation

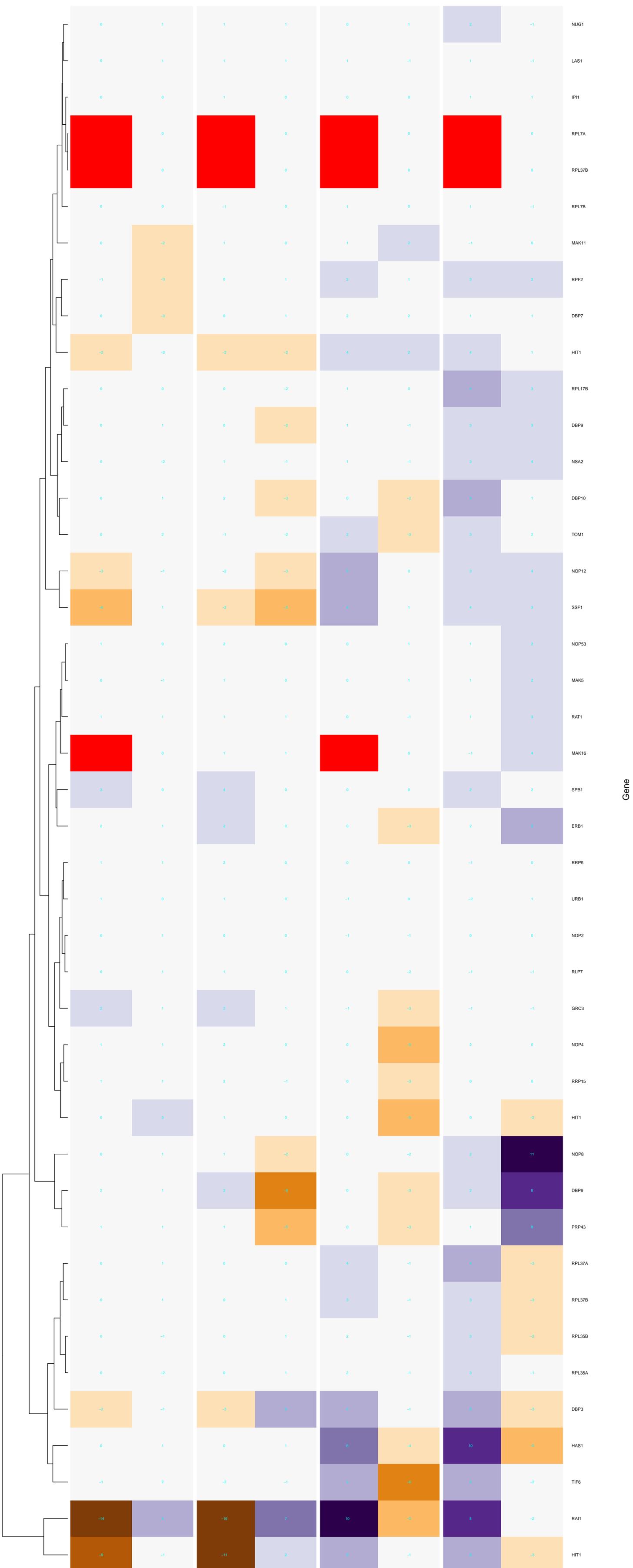


Position of 5.8S rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU-rRNA)



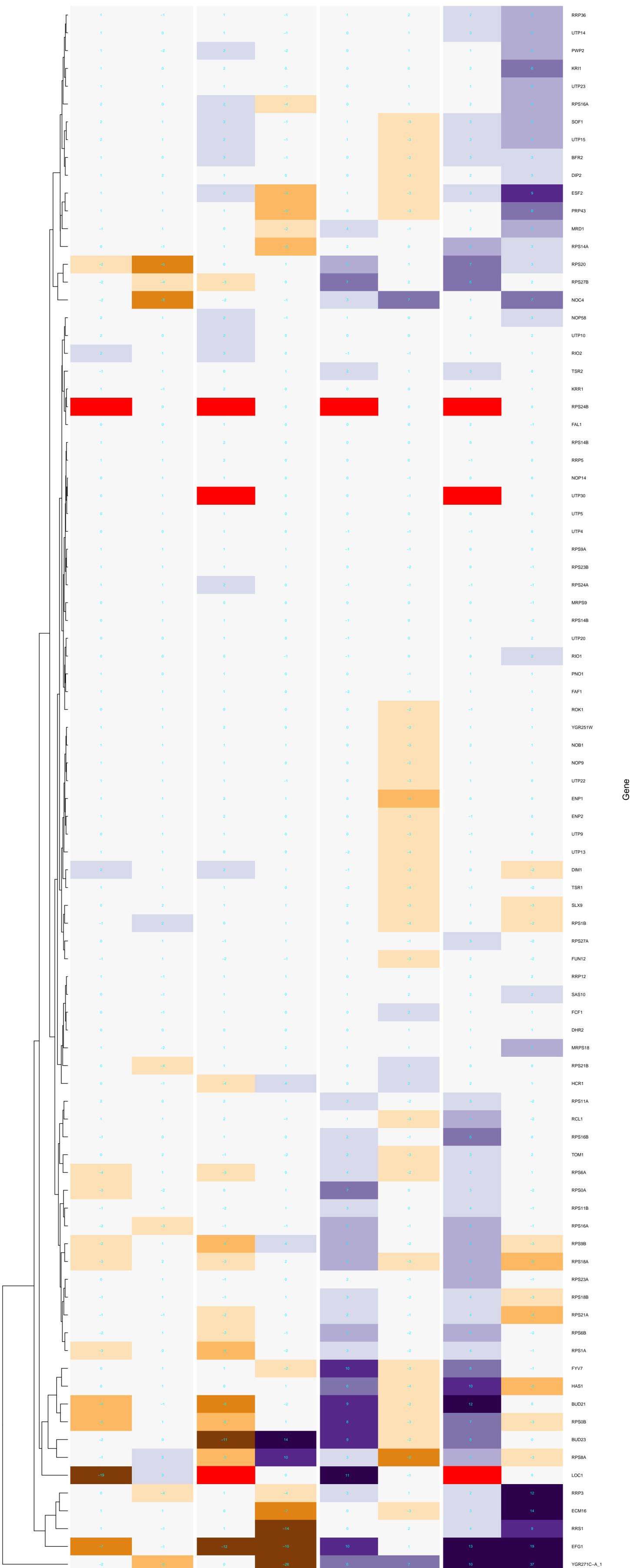


ion of LSU-rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU-rRNA)

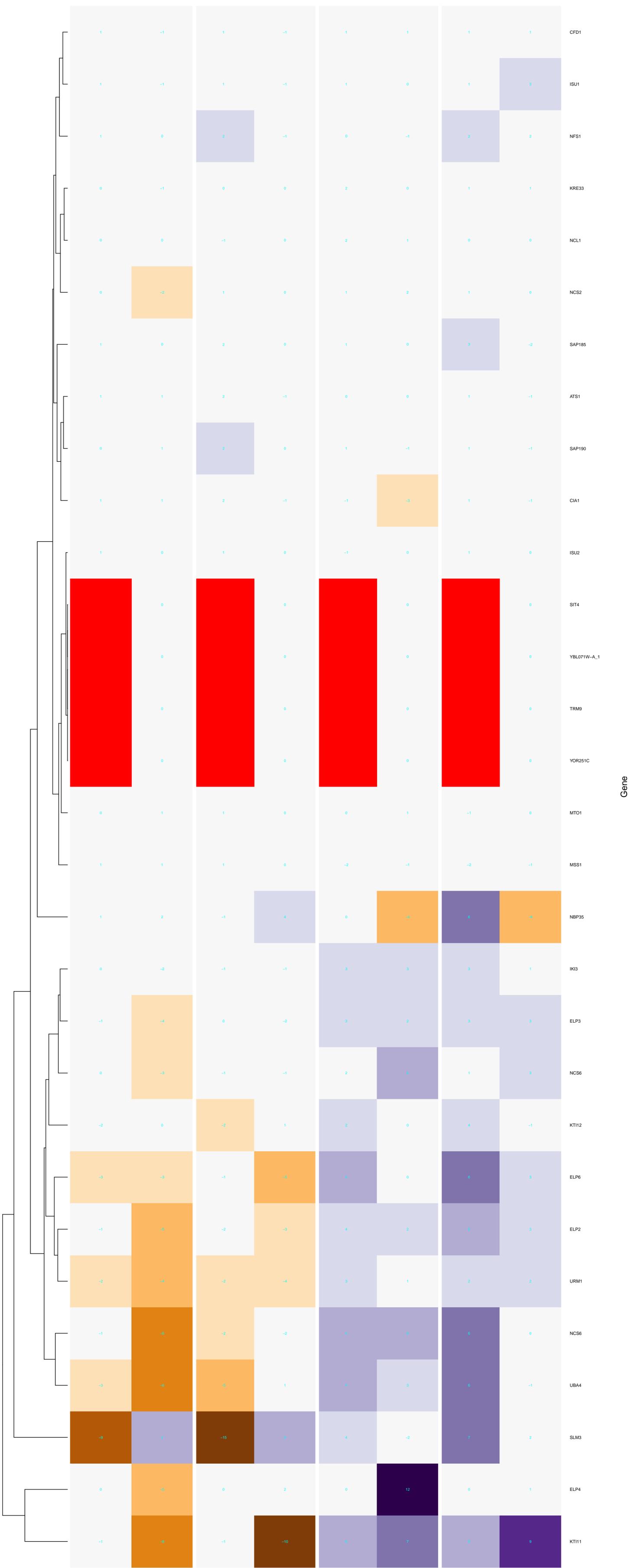
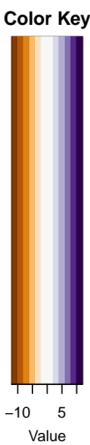




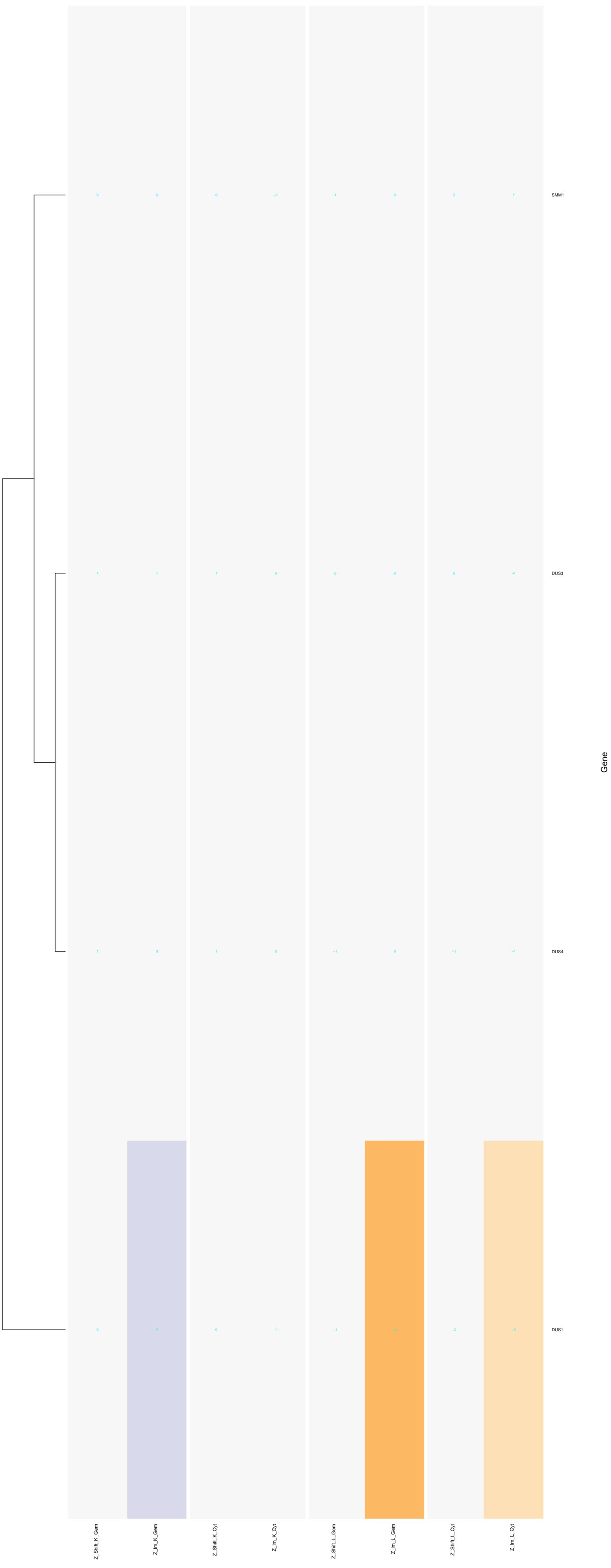
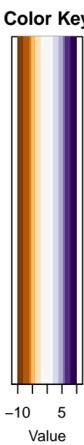
ion of SSU-rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU-rRNA)



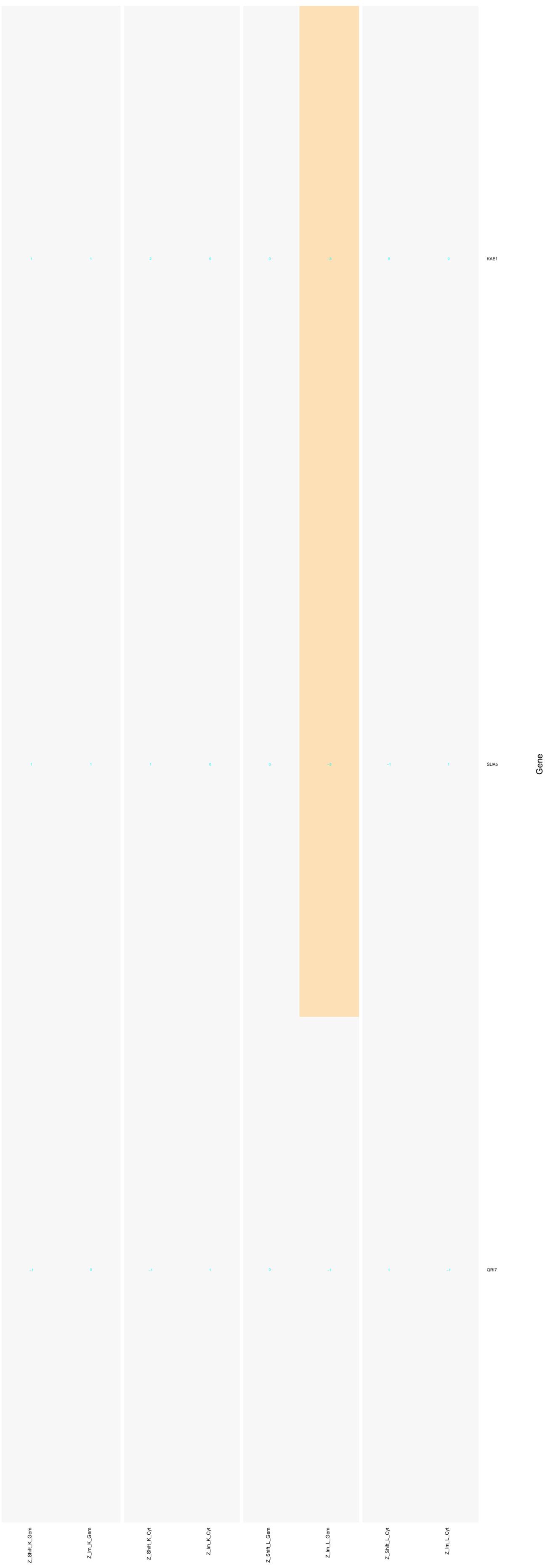
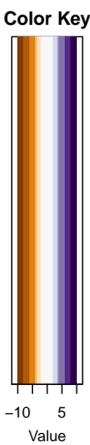
tRNA wobble base modification



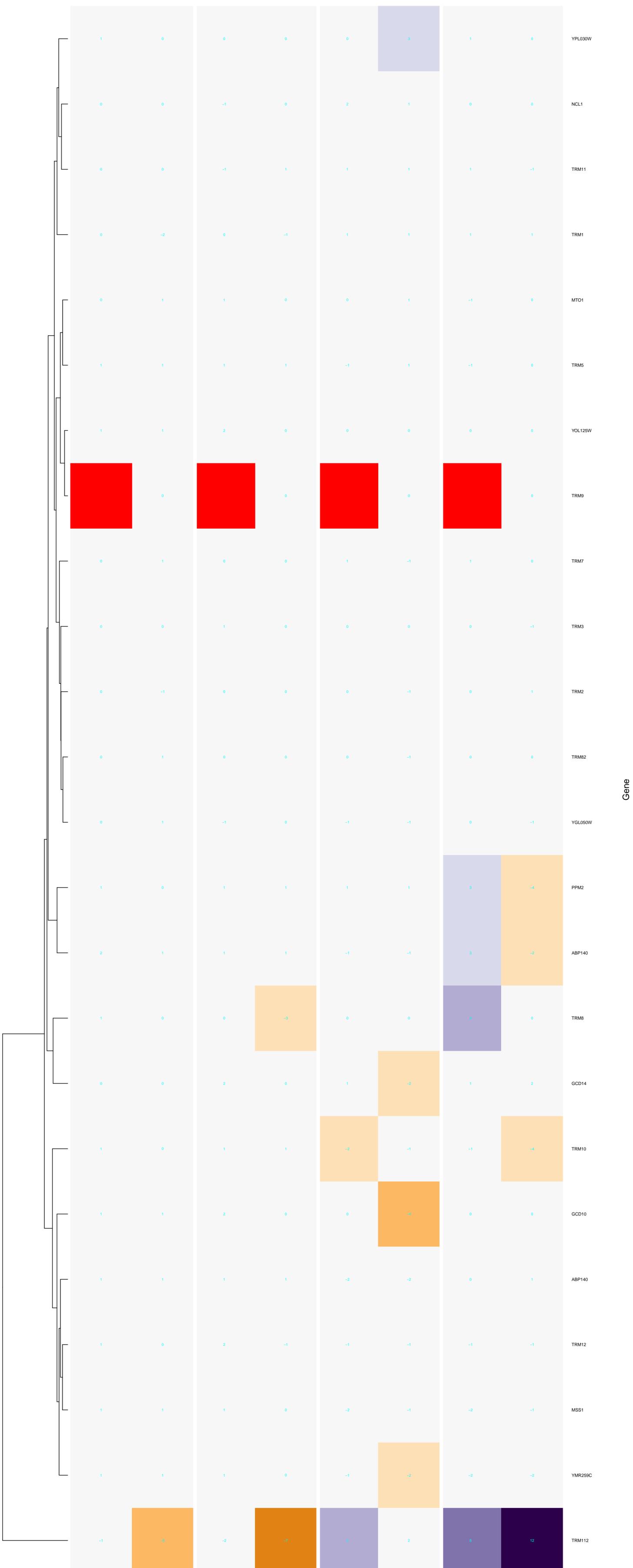
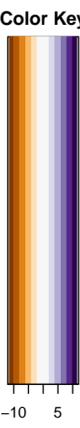
tRNA dihydrouridine synthesis



tRNA threonylcarbamoyladenine modification



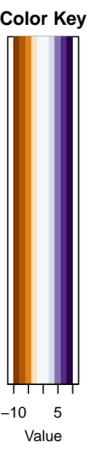
tRNA methylation



tRNA pseudouridine synthesis

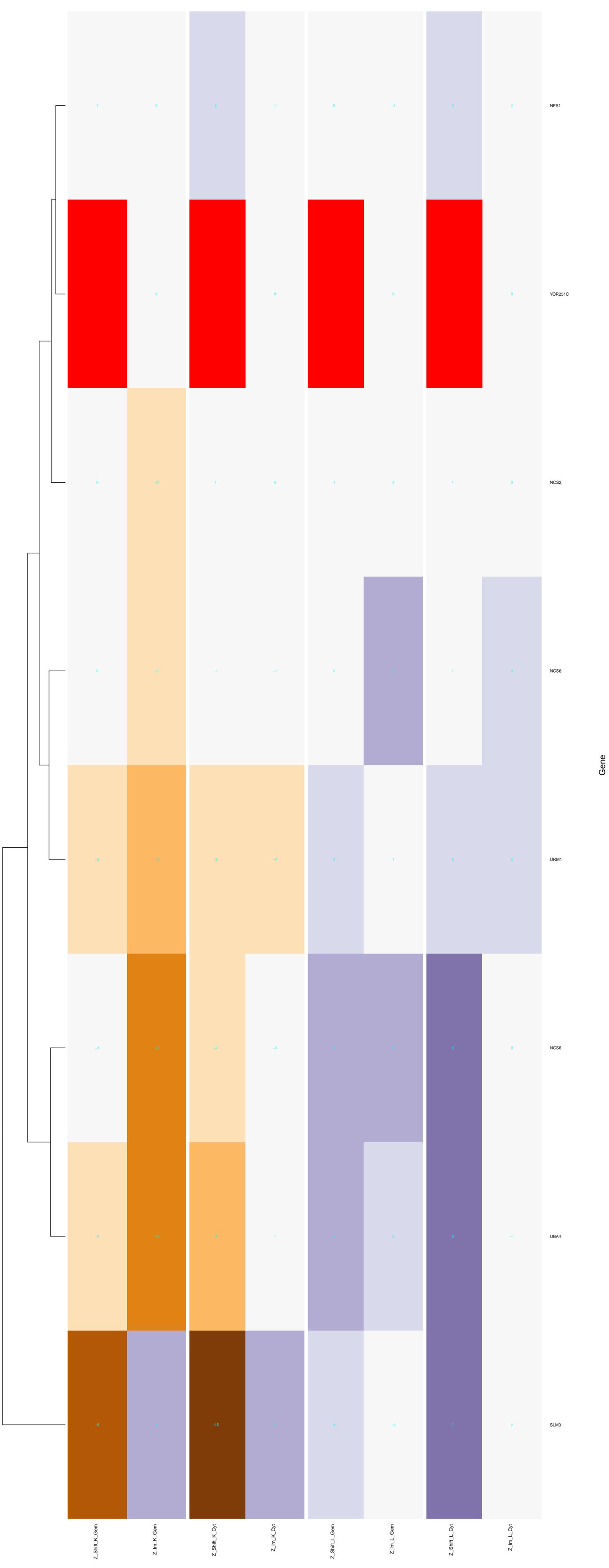
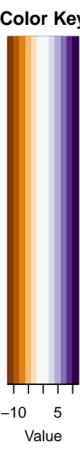


wybutosine biosynthetic process

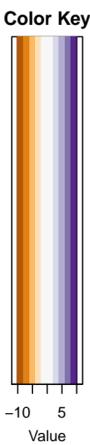


Gene

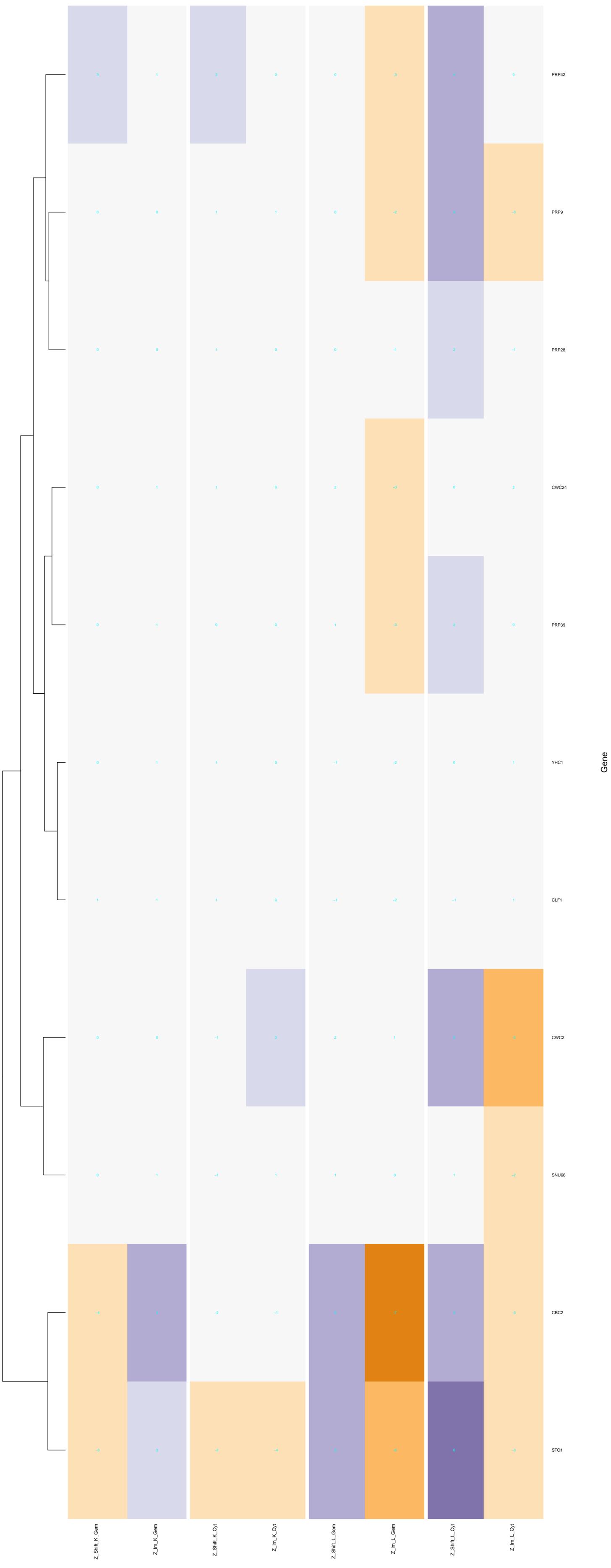
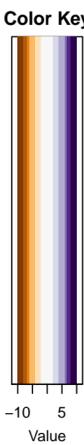
tRNA thio-modification



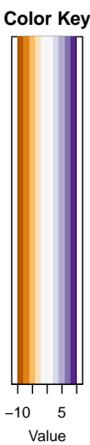
intronic box C/D snoRNA processing



mRNA cis splicing, via spliceosome

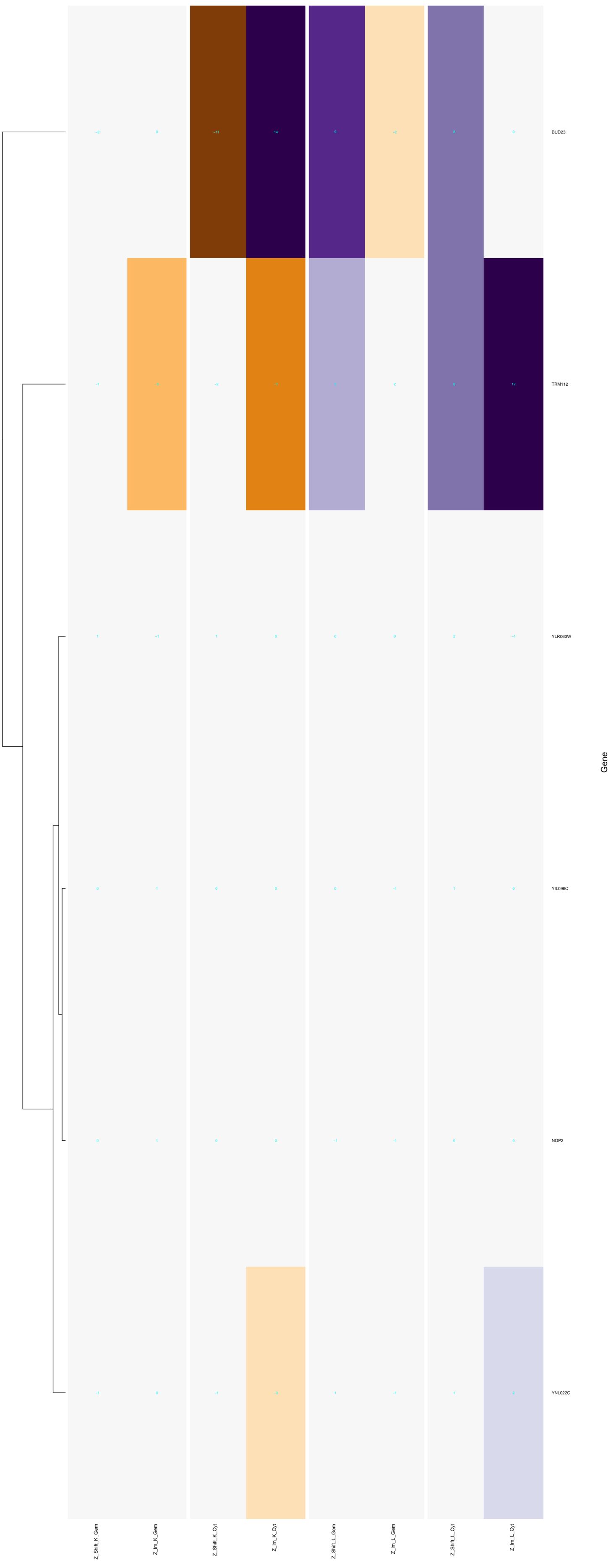
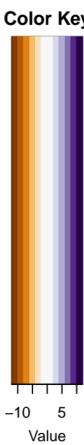


enzyme-directed rRNA pseudouridine synthesis

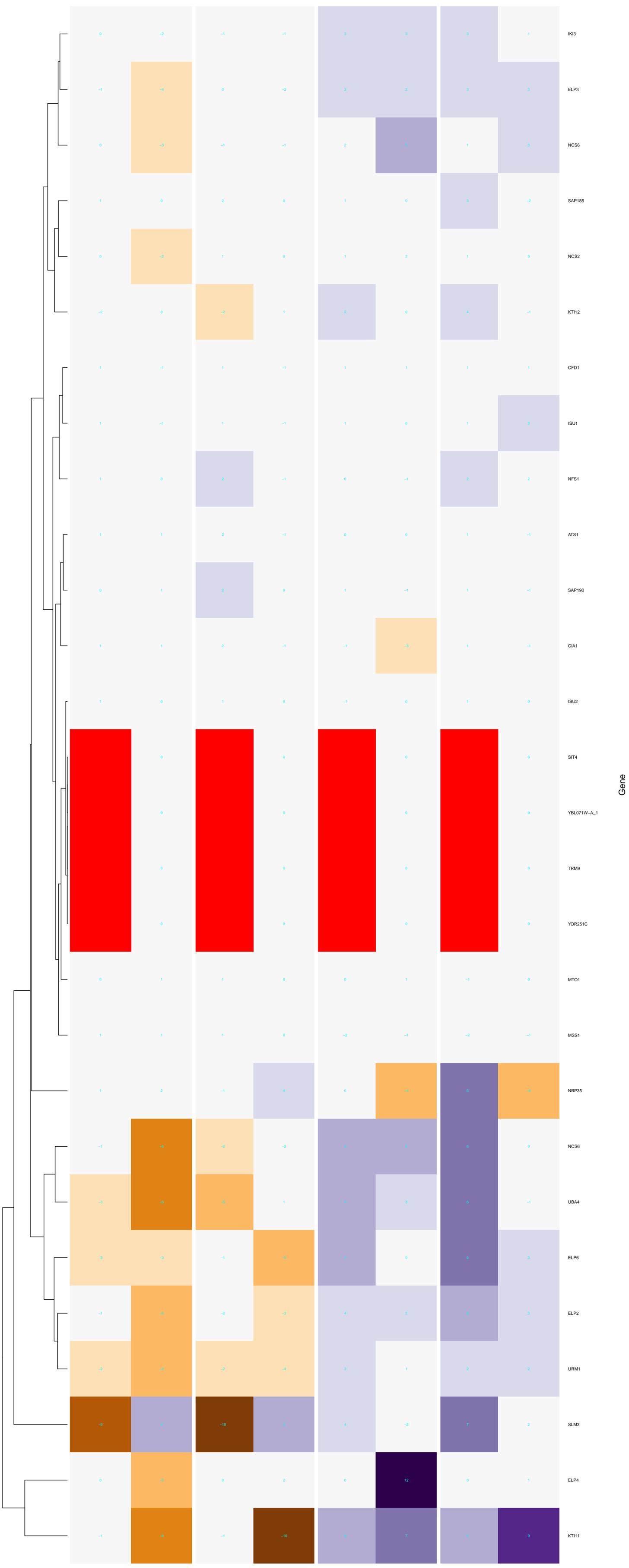


Gene

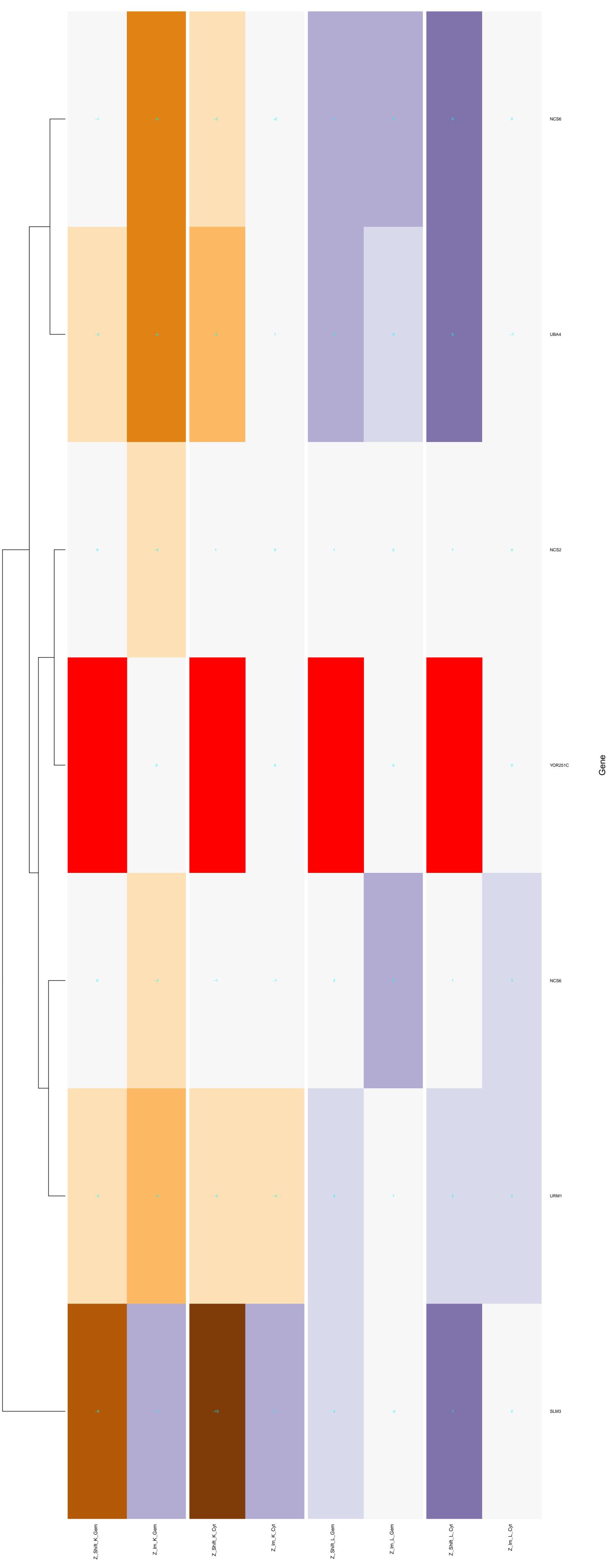
rRNA base methylation



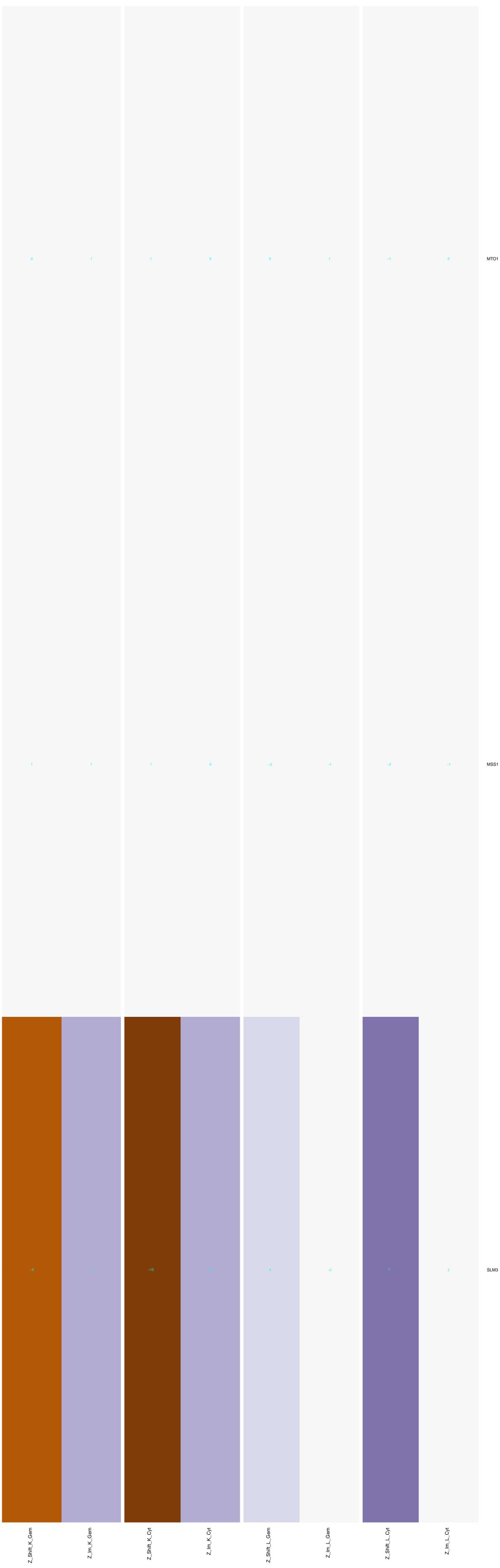
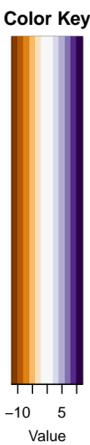
tRNA wobble uridine modification



tRNA wobble position uridine thiolation



mitochondrial tRNA wobble uridine modification



Gene