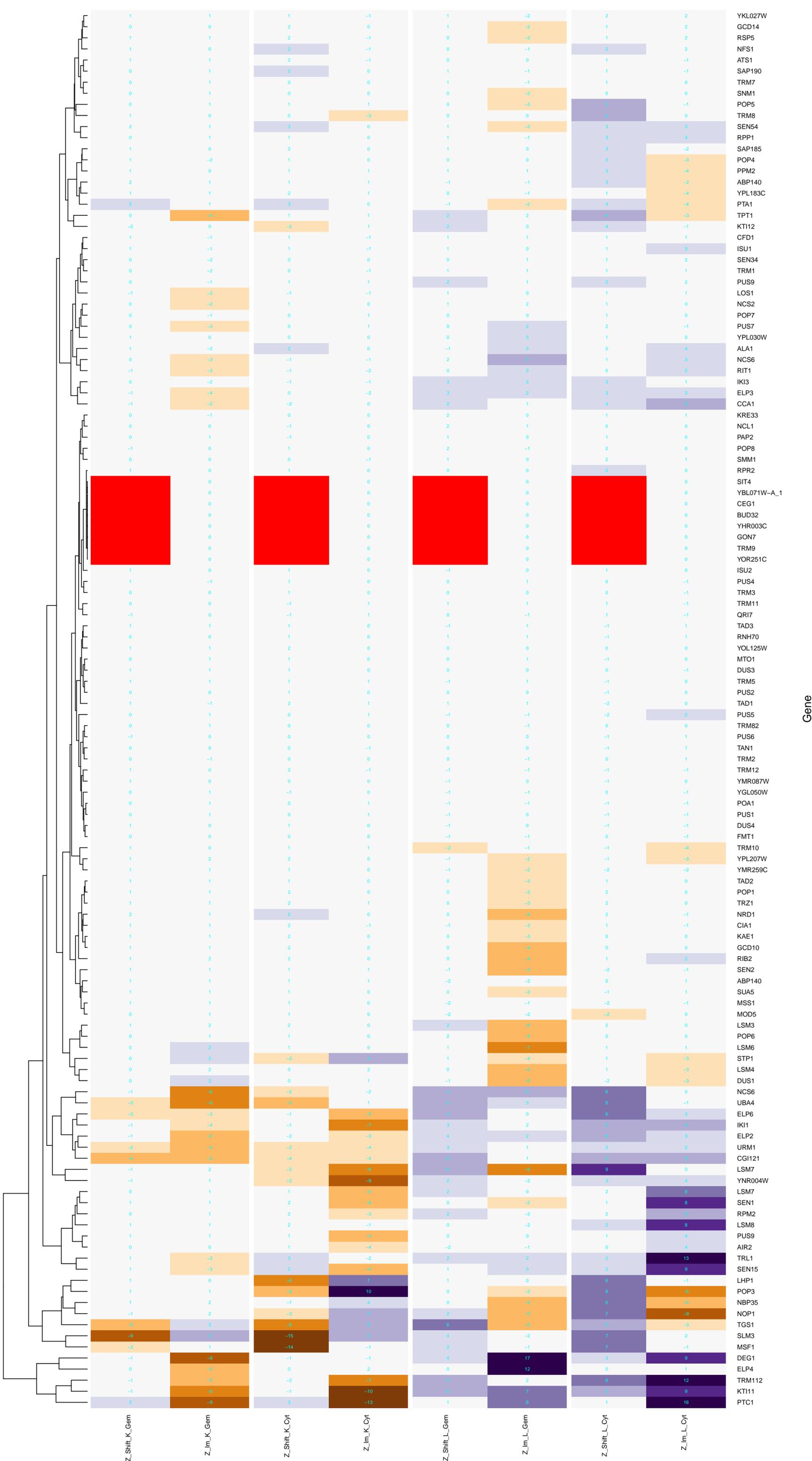
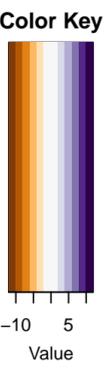
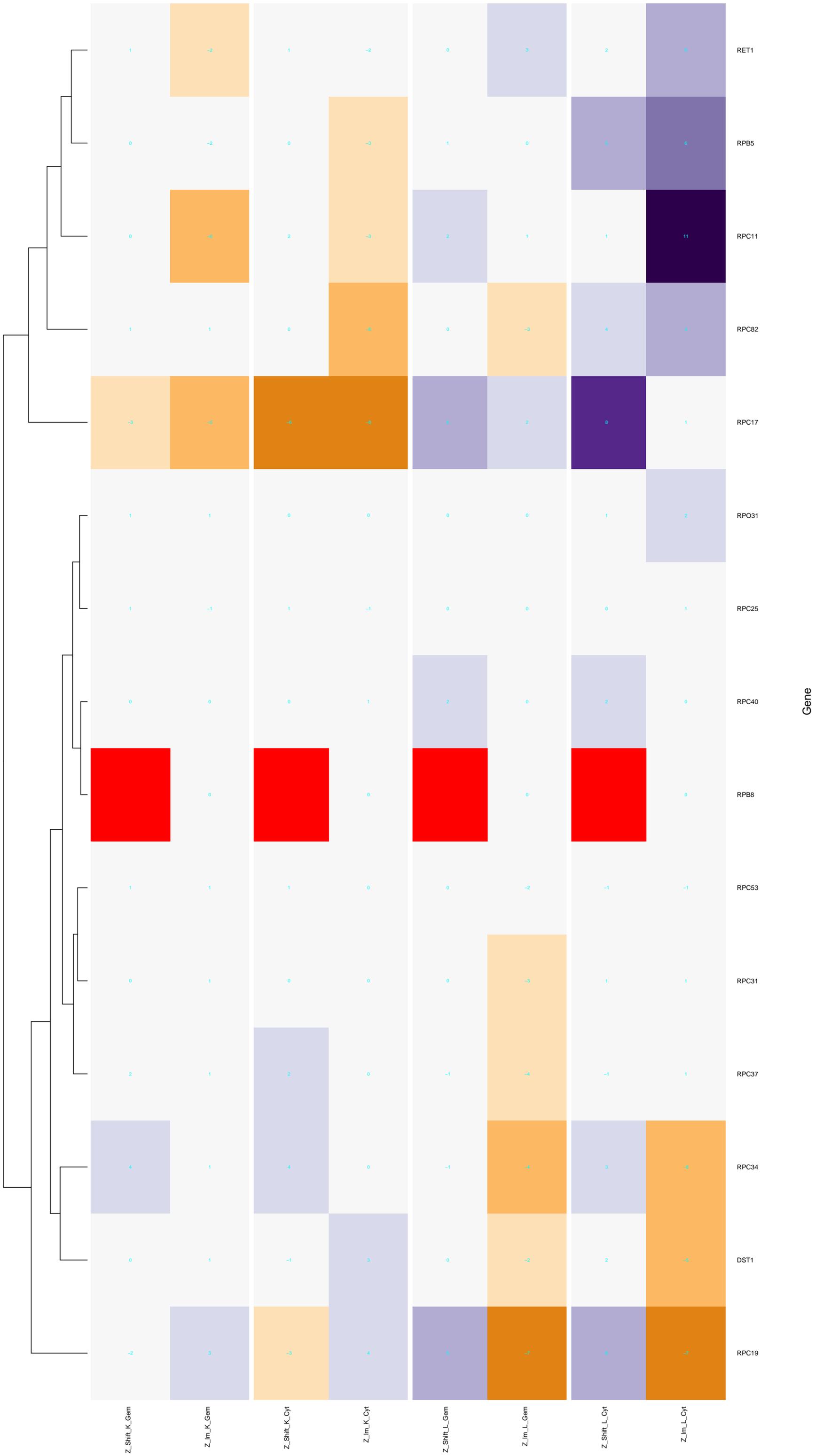
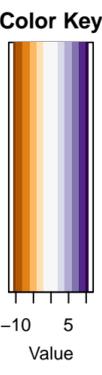


tRNA processing



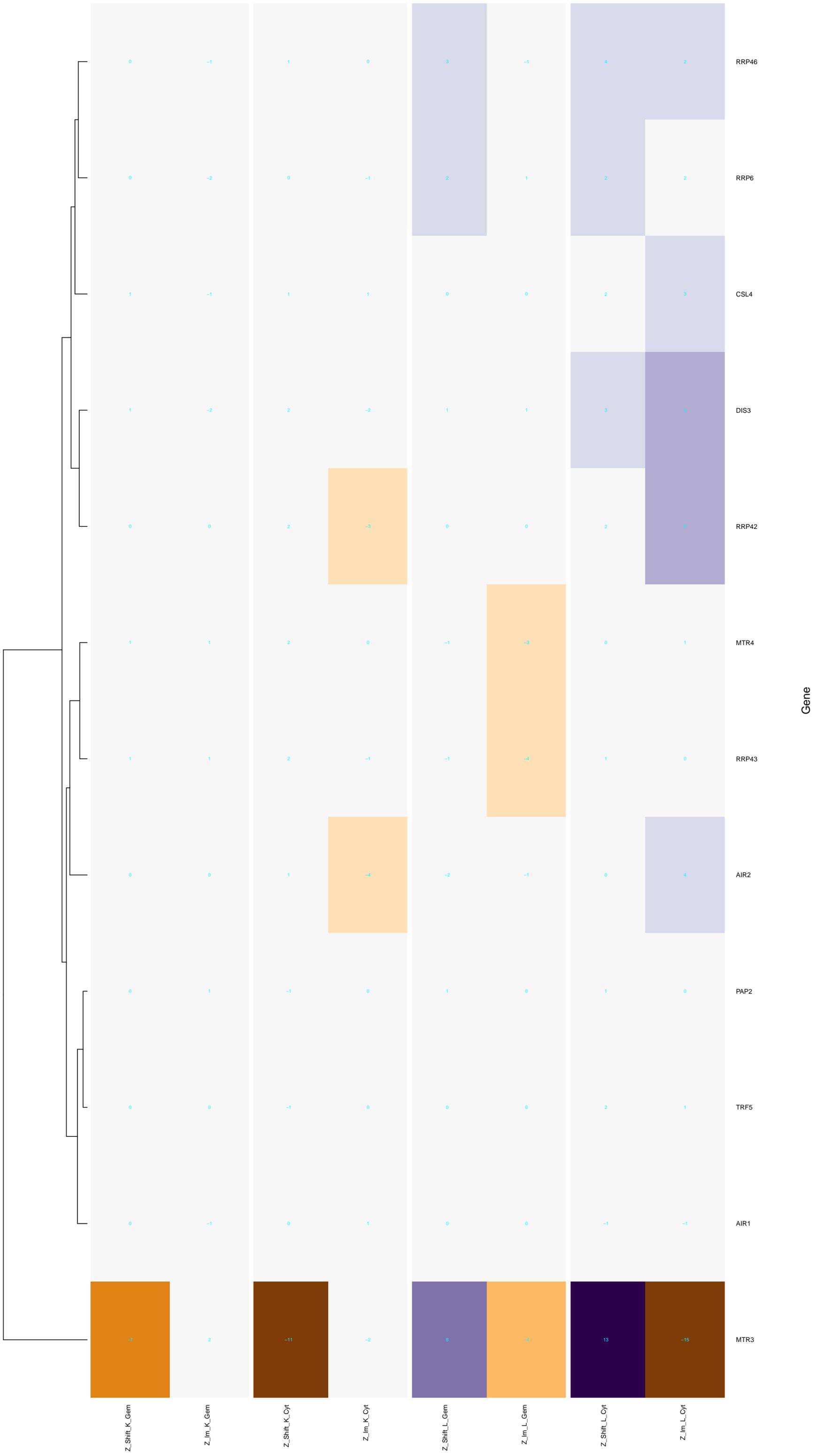
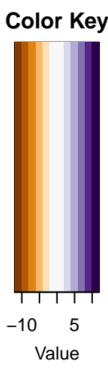
Gene

tRNA transcription

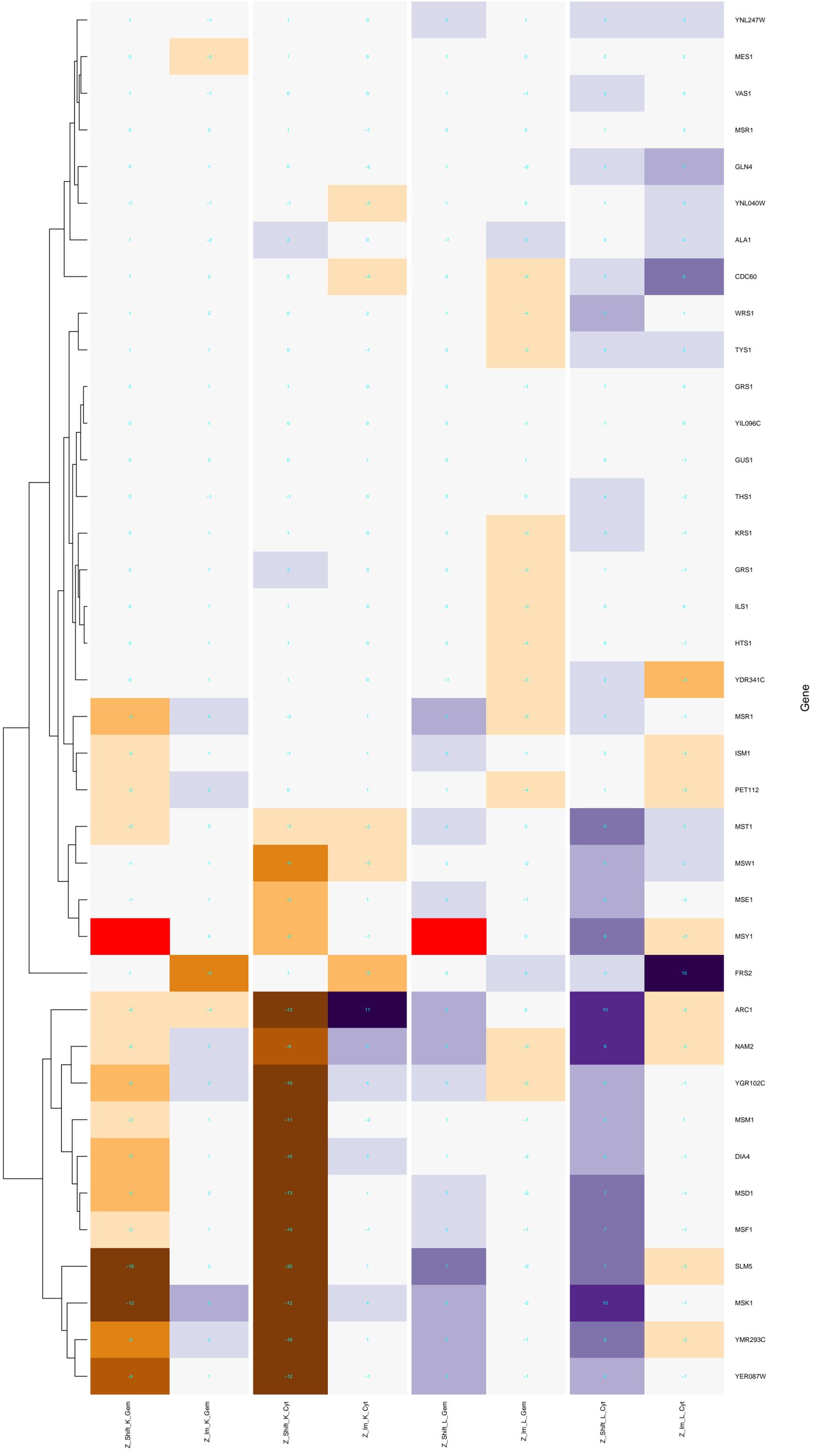
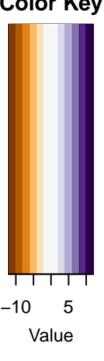


Gene

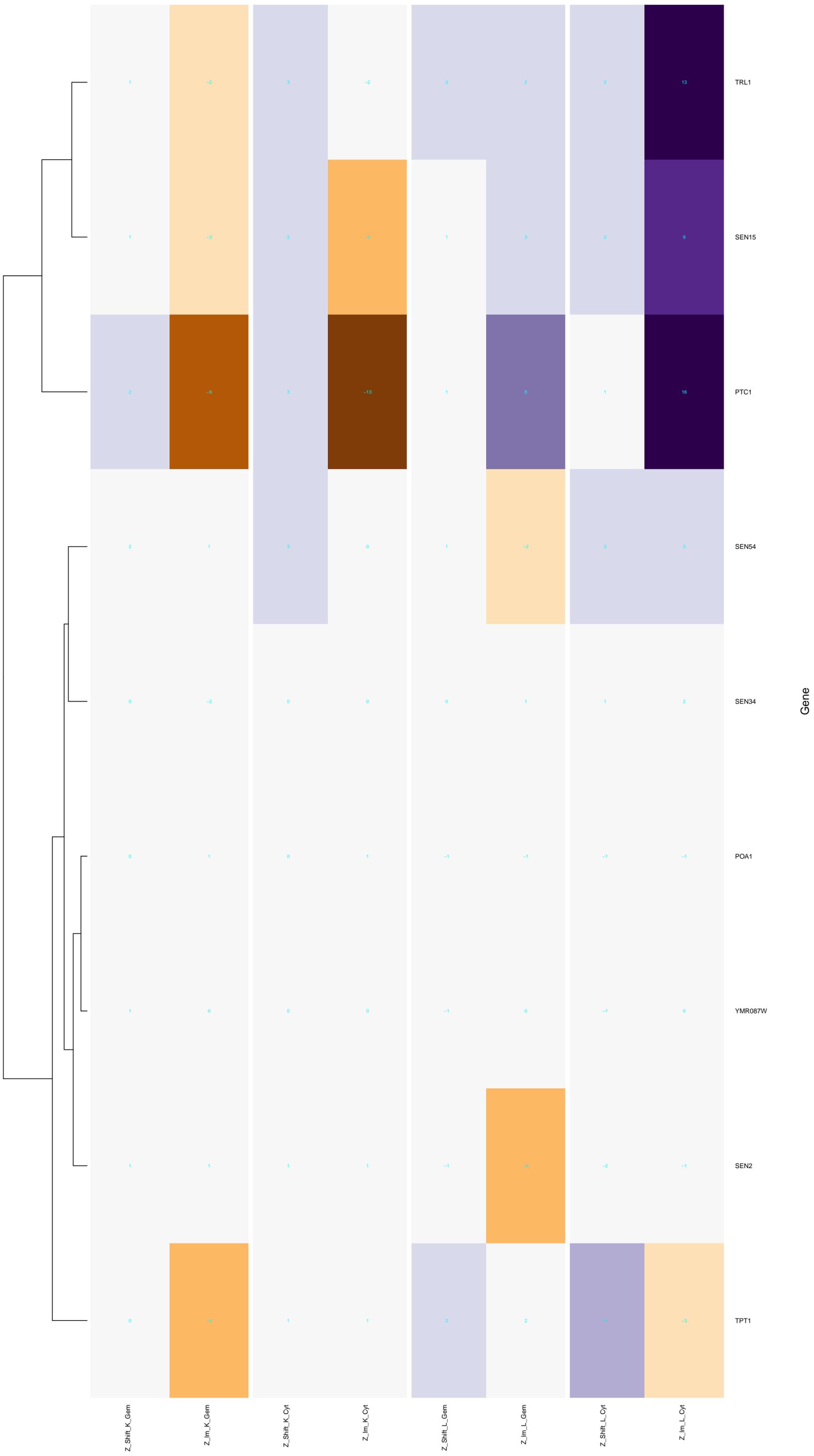
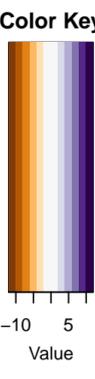
tRNA catabolic process



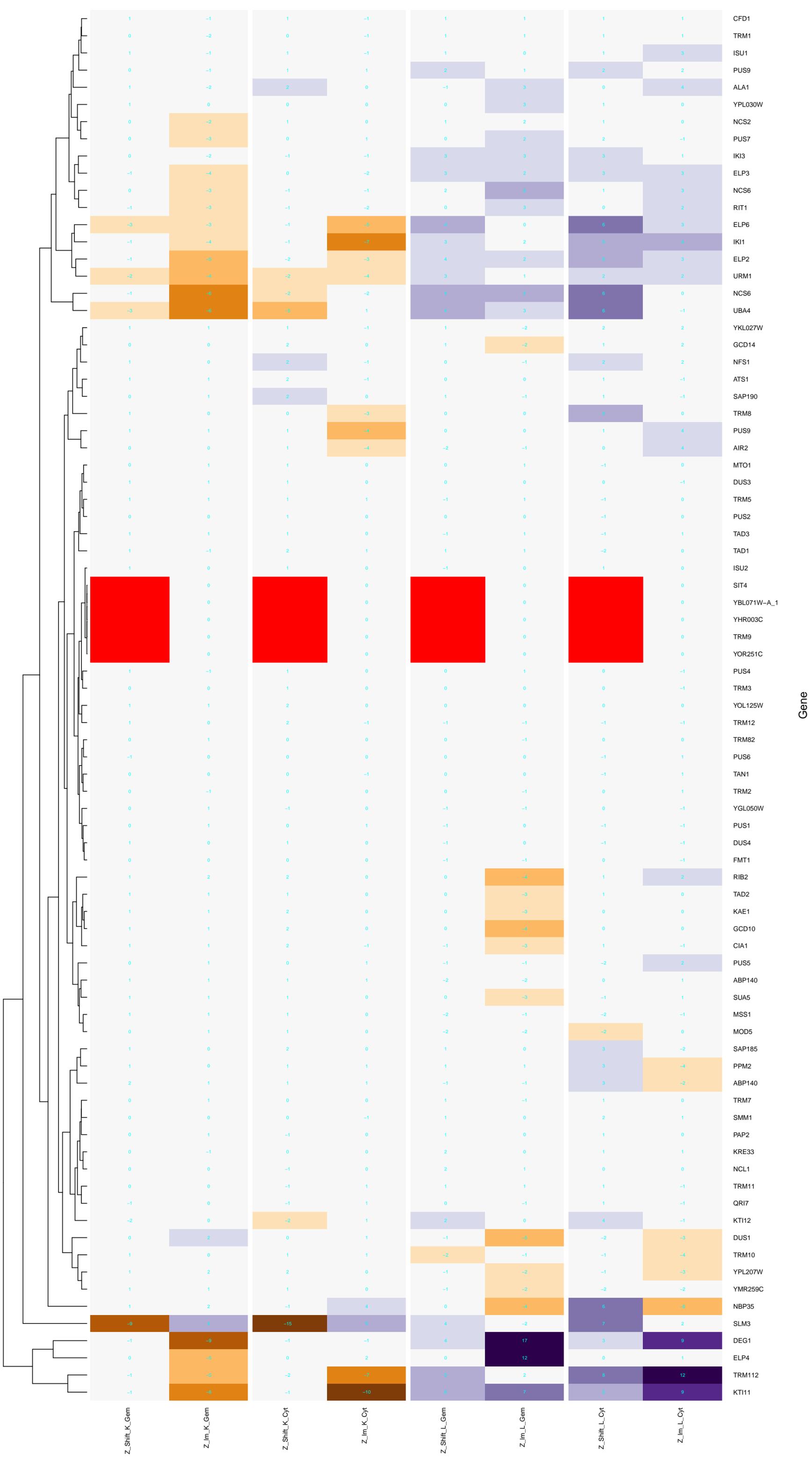
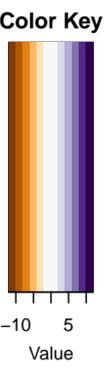
tRNA aminoacylation



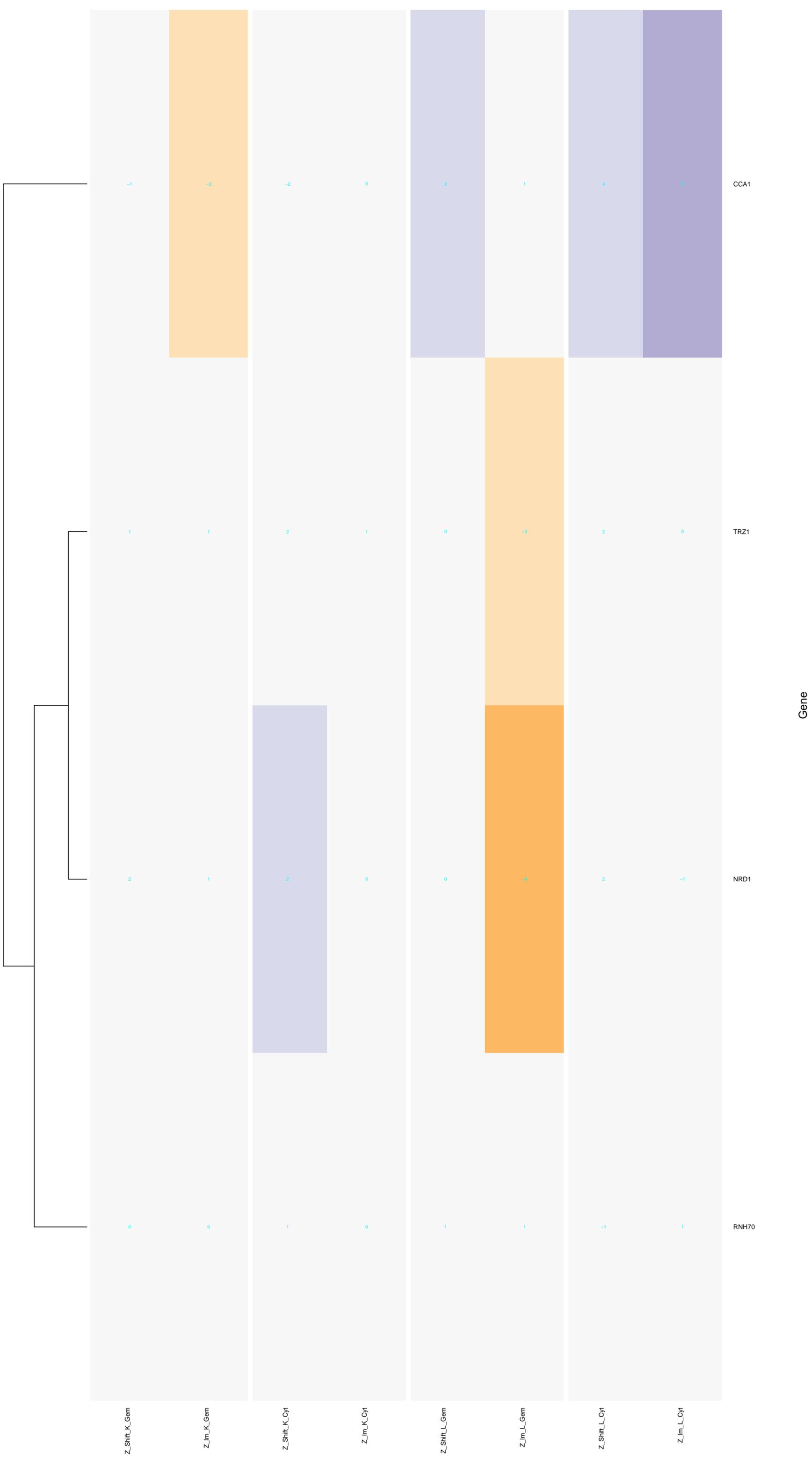
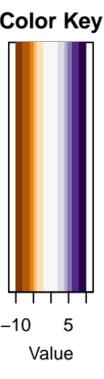
tRNA splicing, via endonucleolytic cleavage and ligation



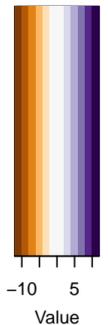
tRNA modification



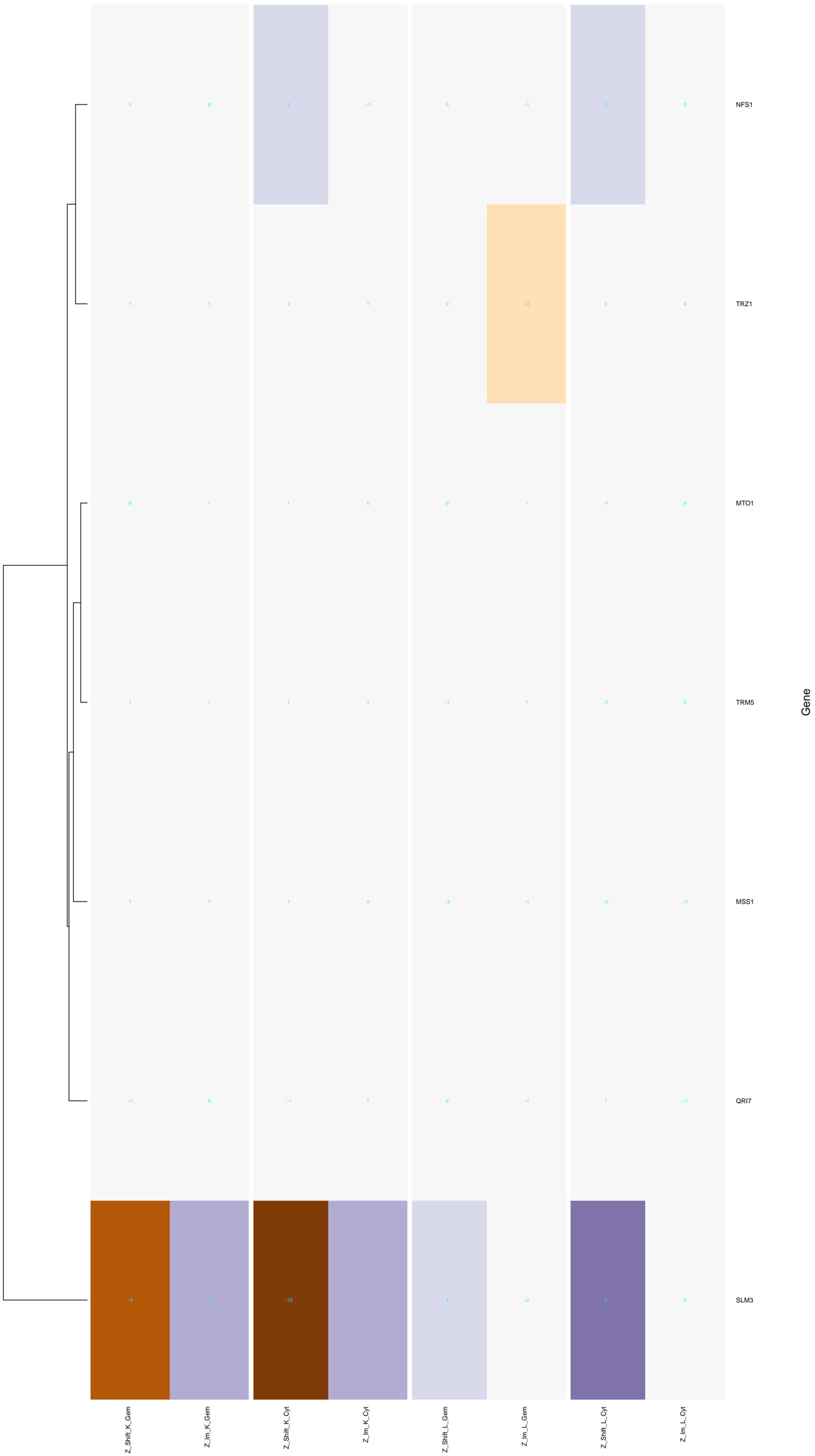
tRNA 3'-end processing



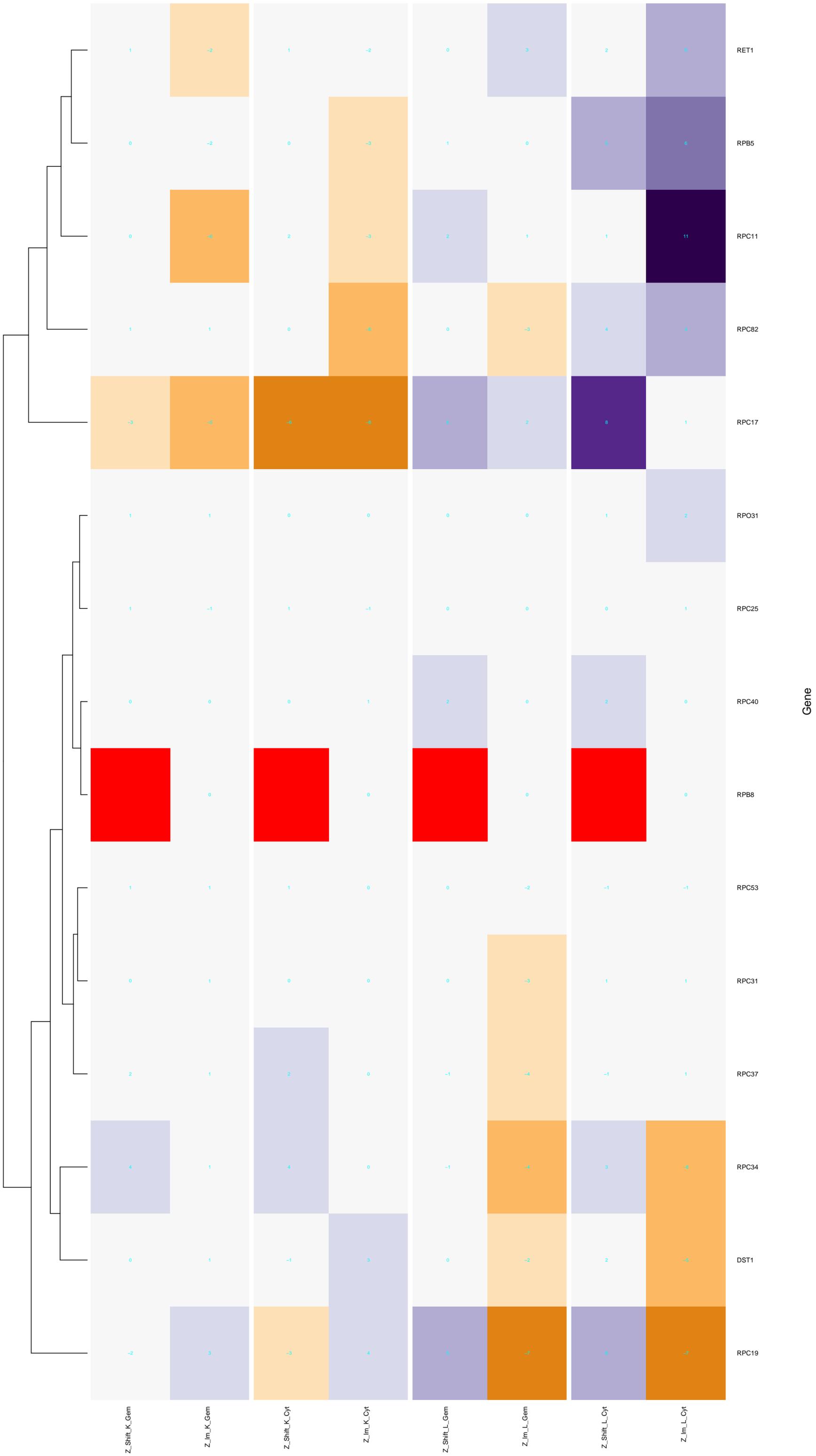
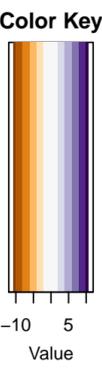
Color Key



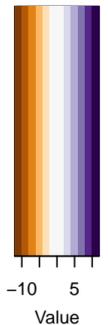
mitochondrial tRNA processing



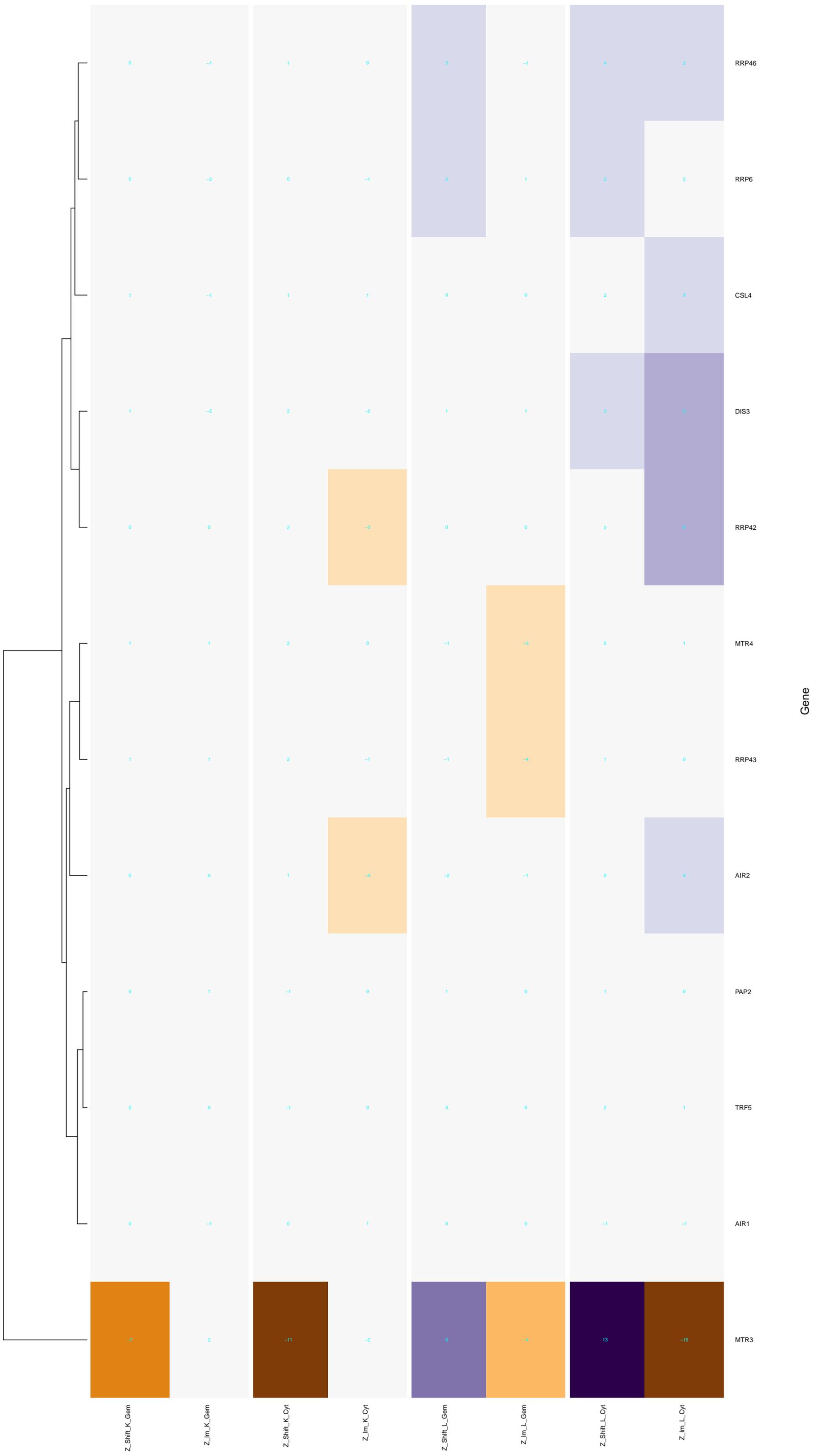
tRNA transcription from RNA polymerase III promoter



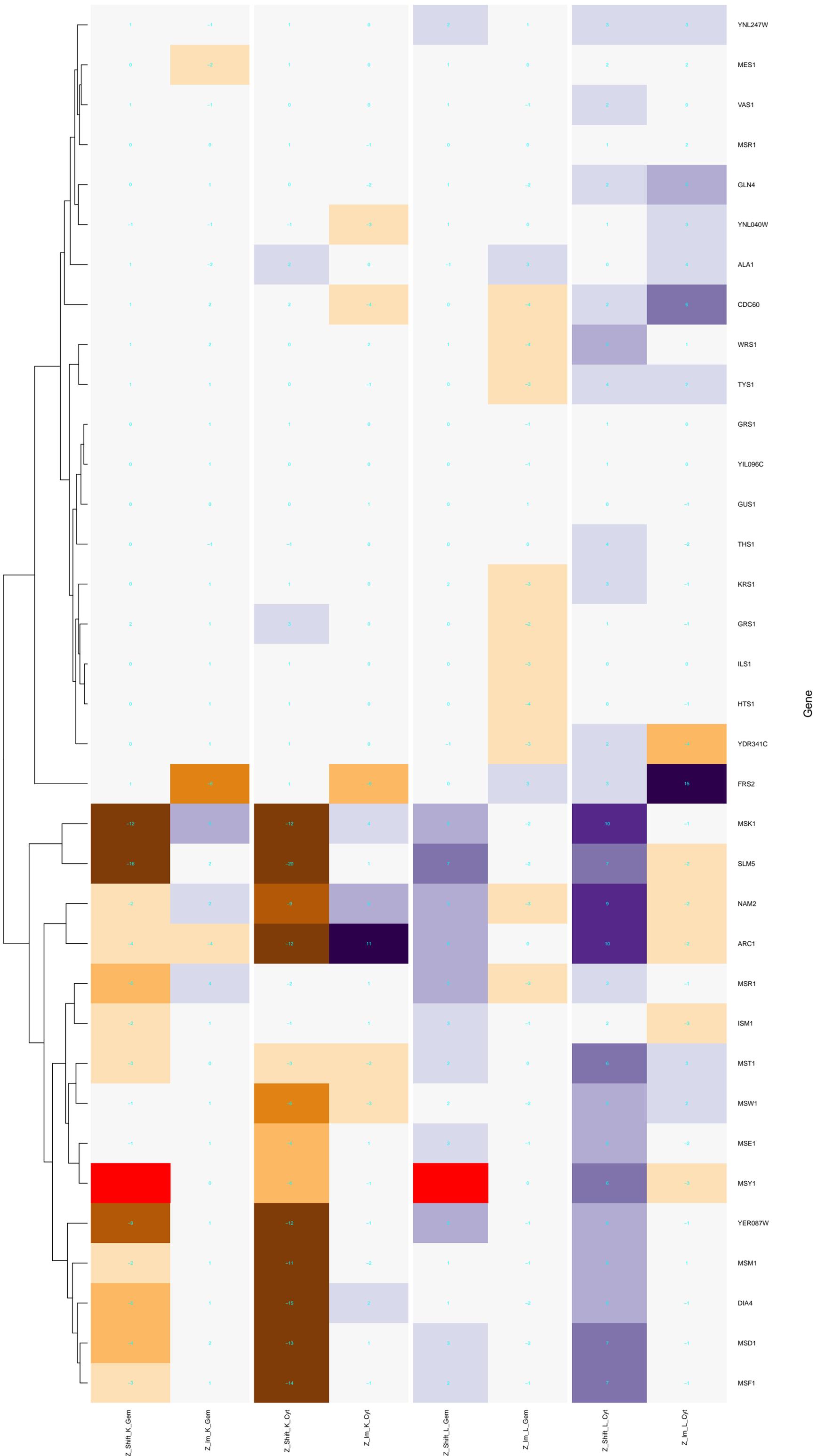
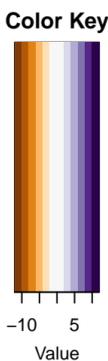
Color Key



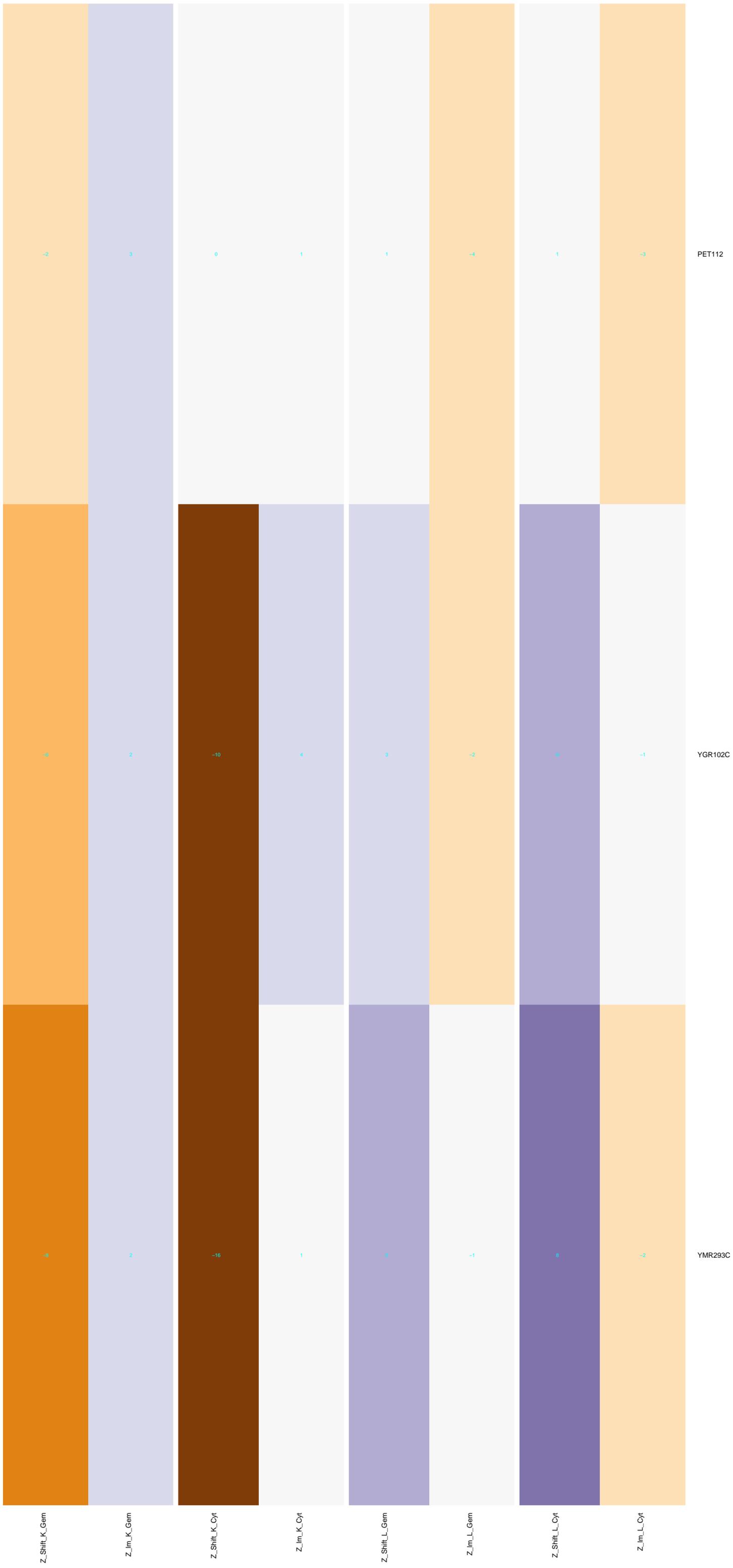
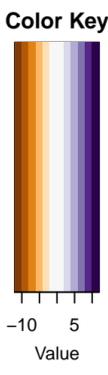
nuclear polyadenylation-dependent tRNA catabolic process



tRNA aminoacylation for protein translation

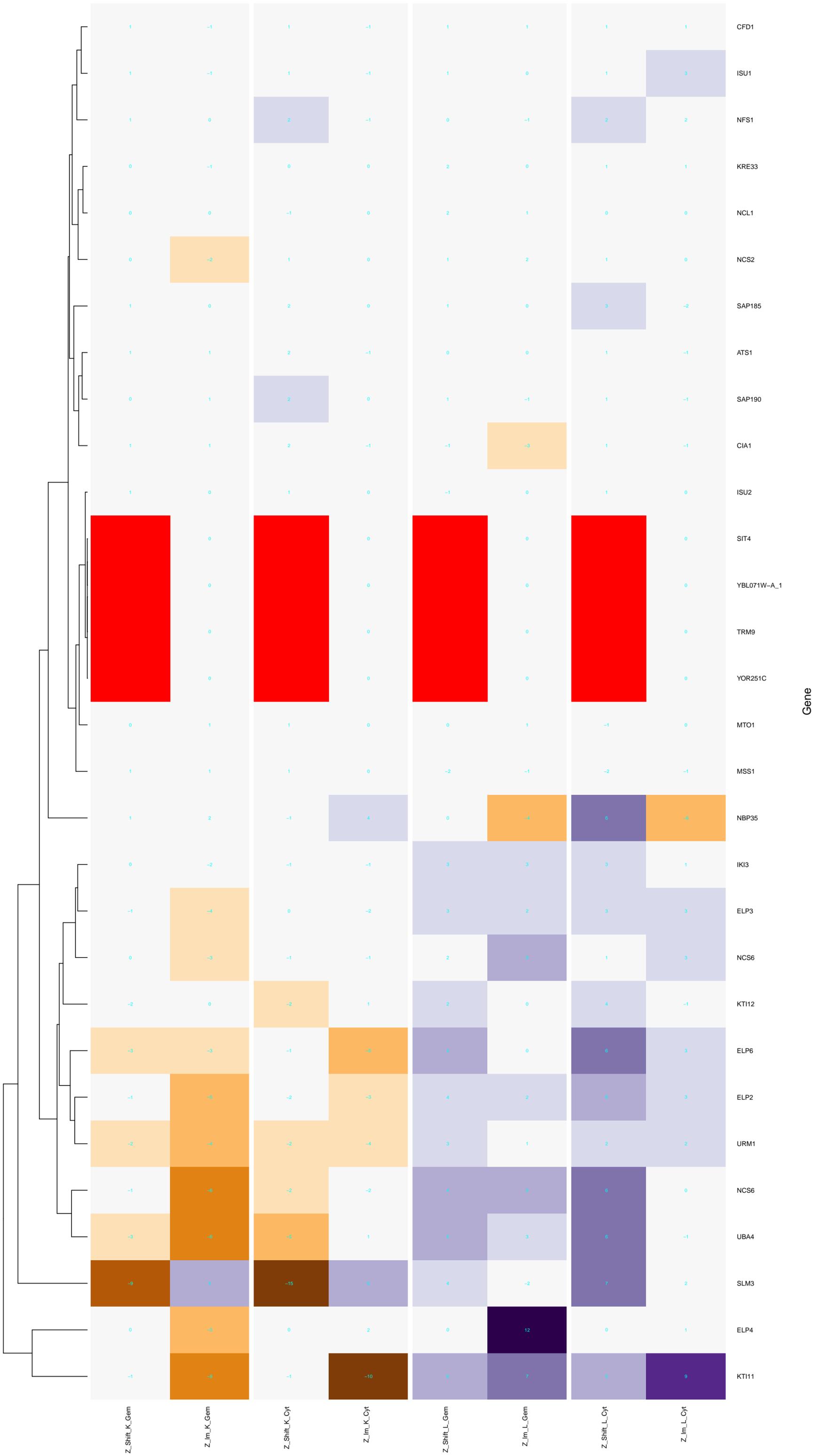
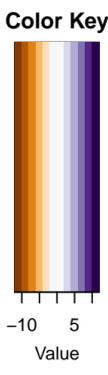


glutaminyl-tRNA^{Gln} biosynthesis via transamidation

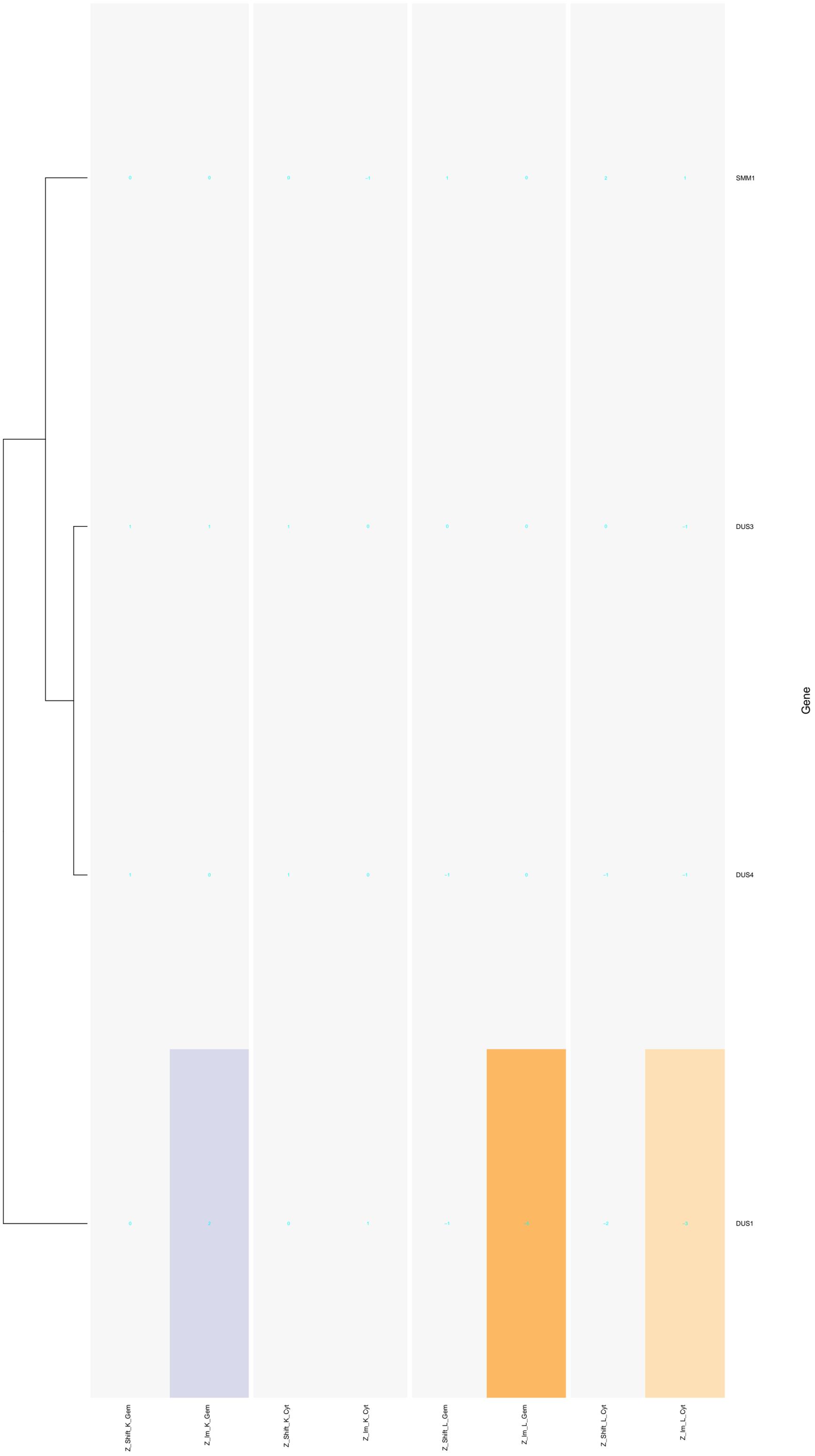
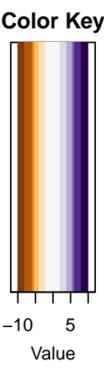


Gene

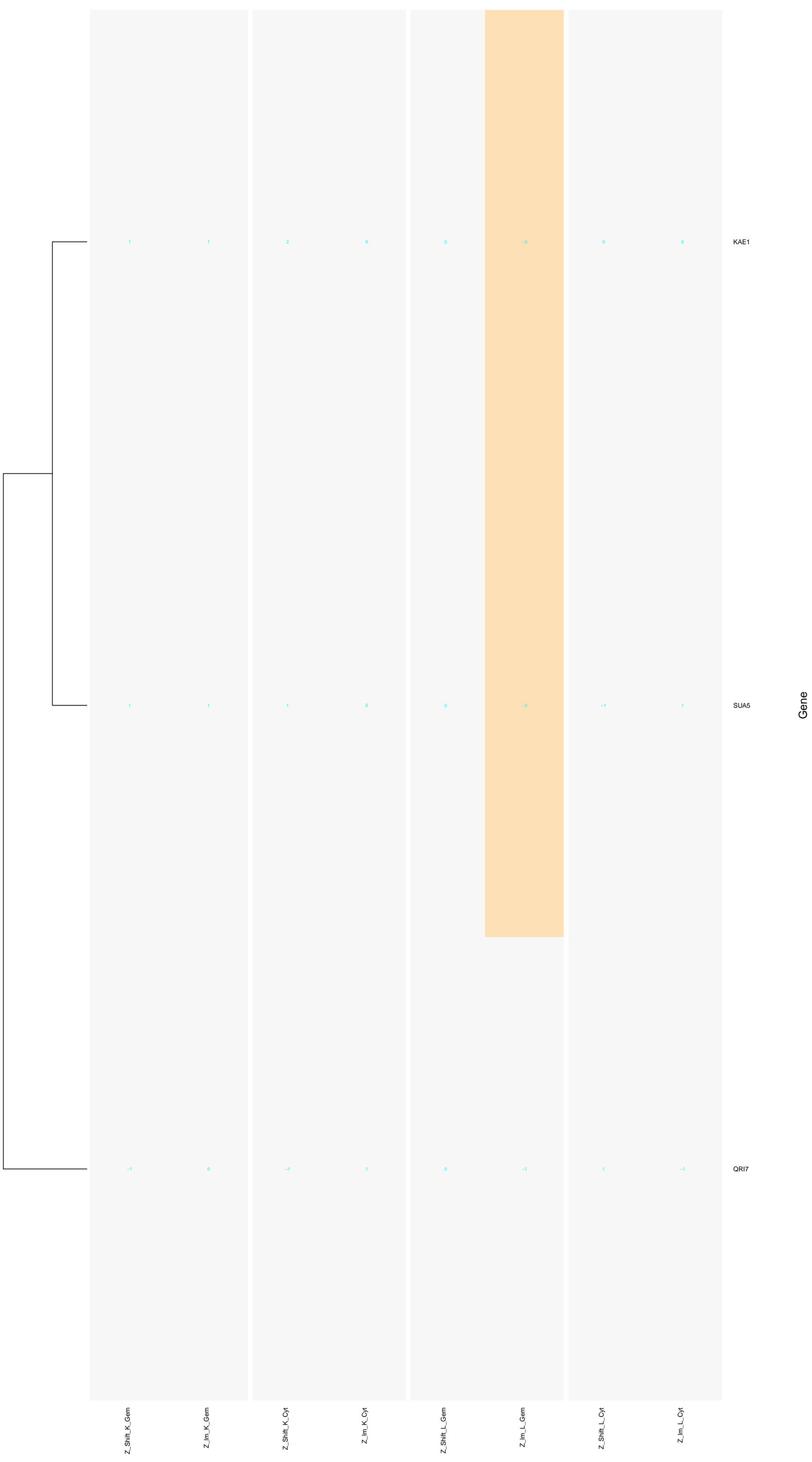
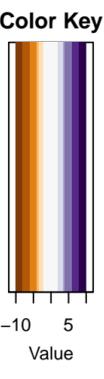
tRNA wobble base modification



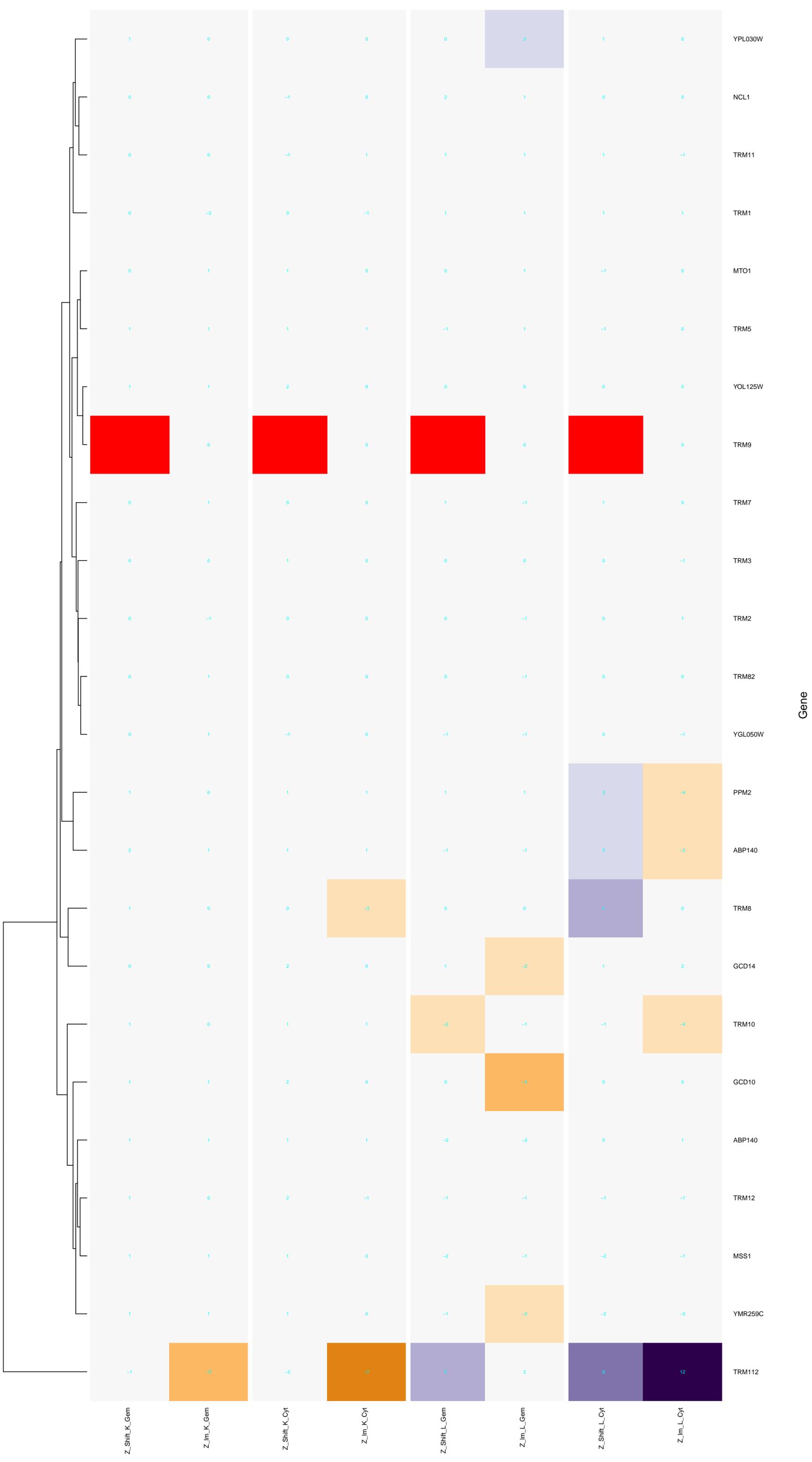
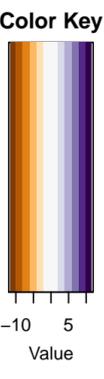
tRNA dihydrouridine synthesis



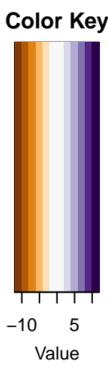
tRNA threonylcarbamoyladenosine modification



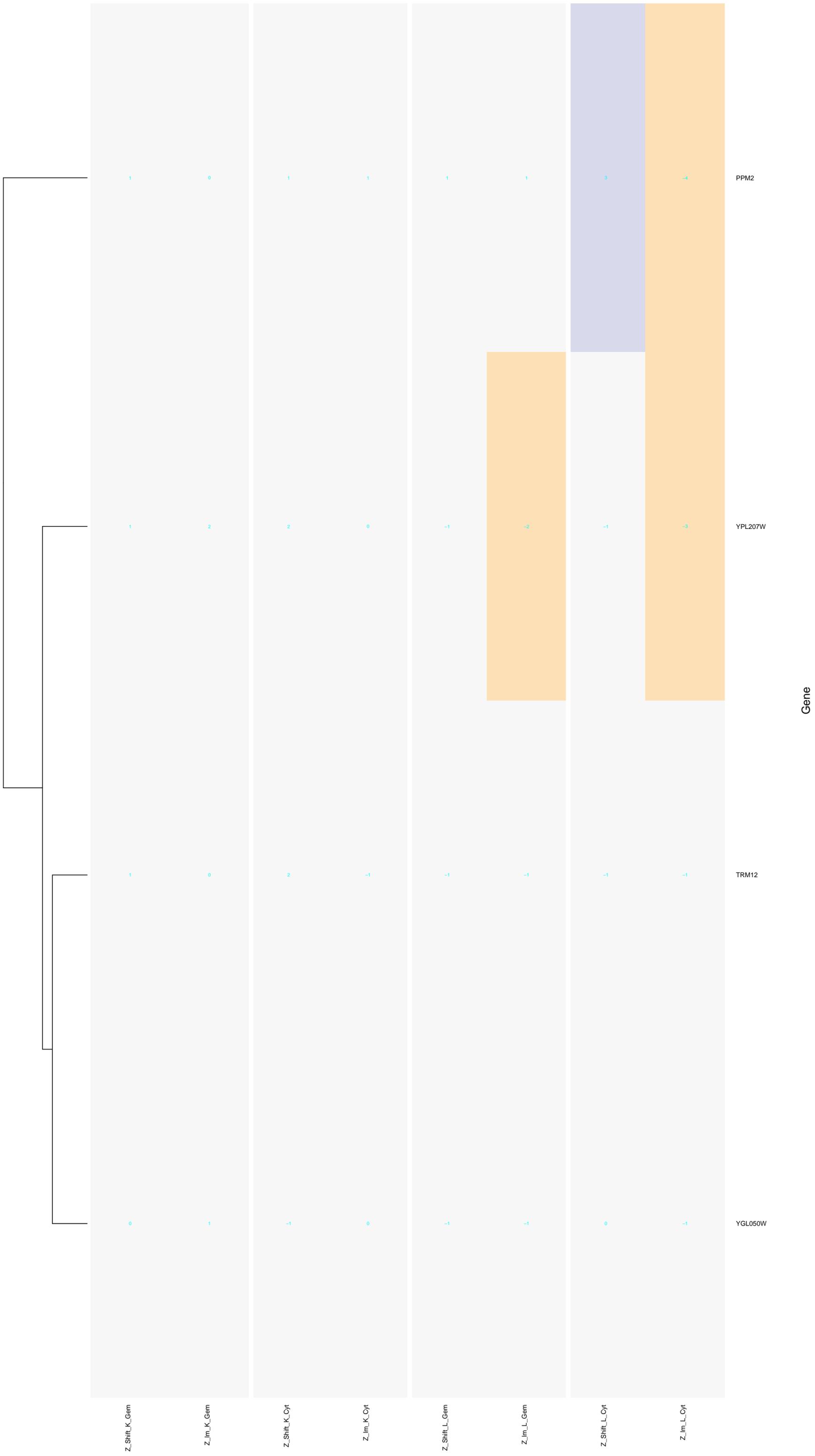
tRNA methylation



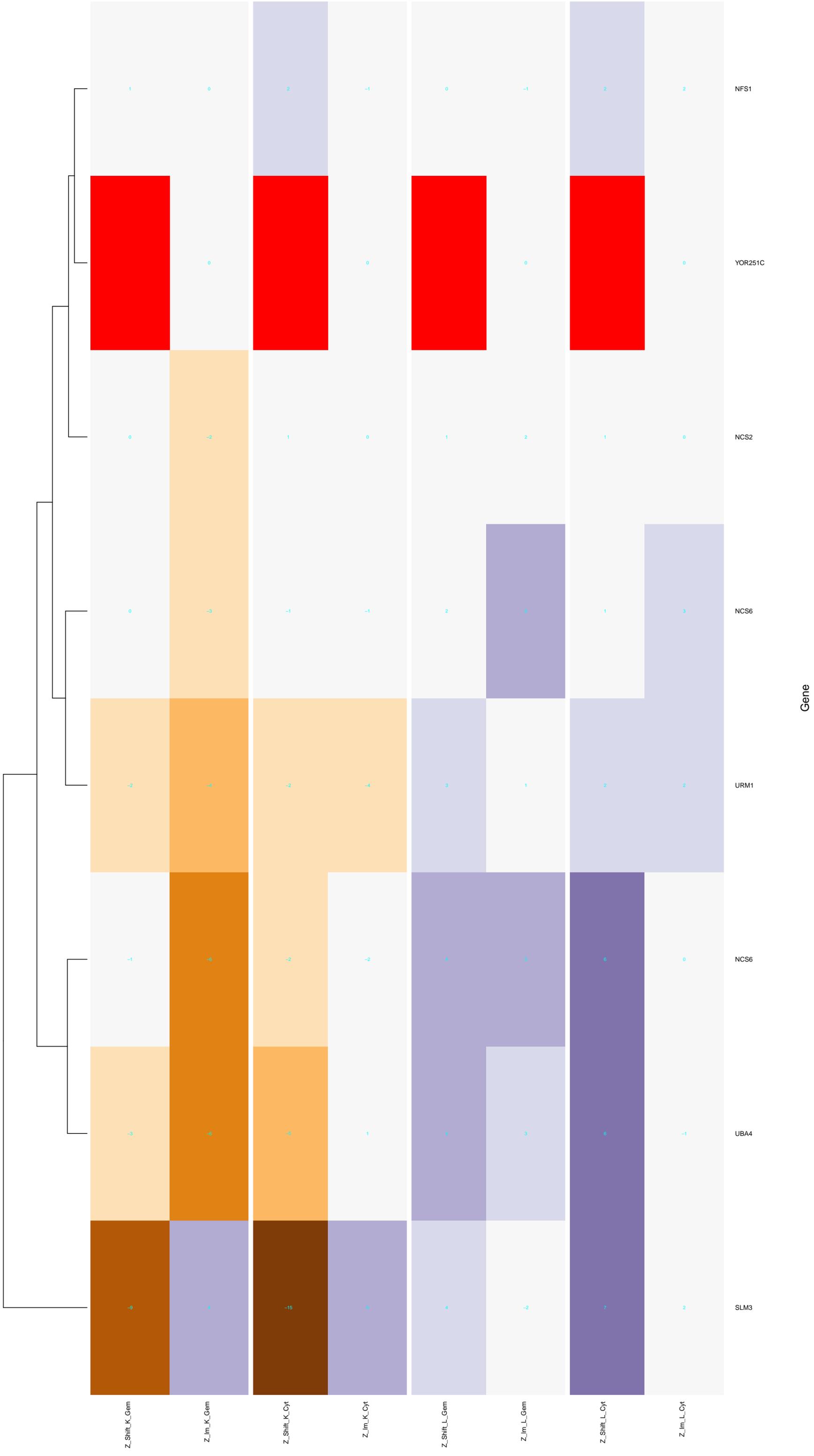
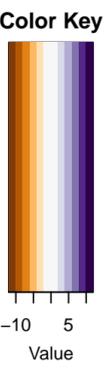
tRNA pseudouridine synthesis



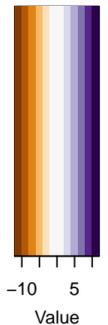
wybutosine biosynthetic process



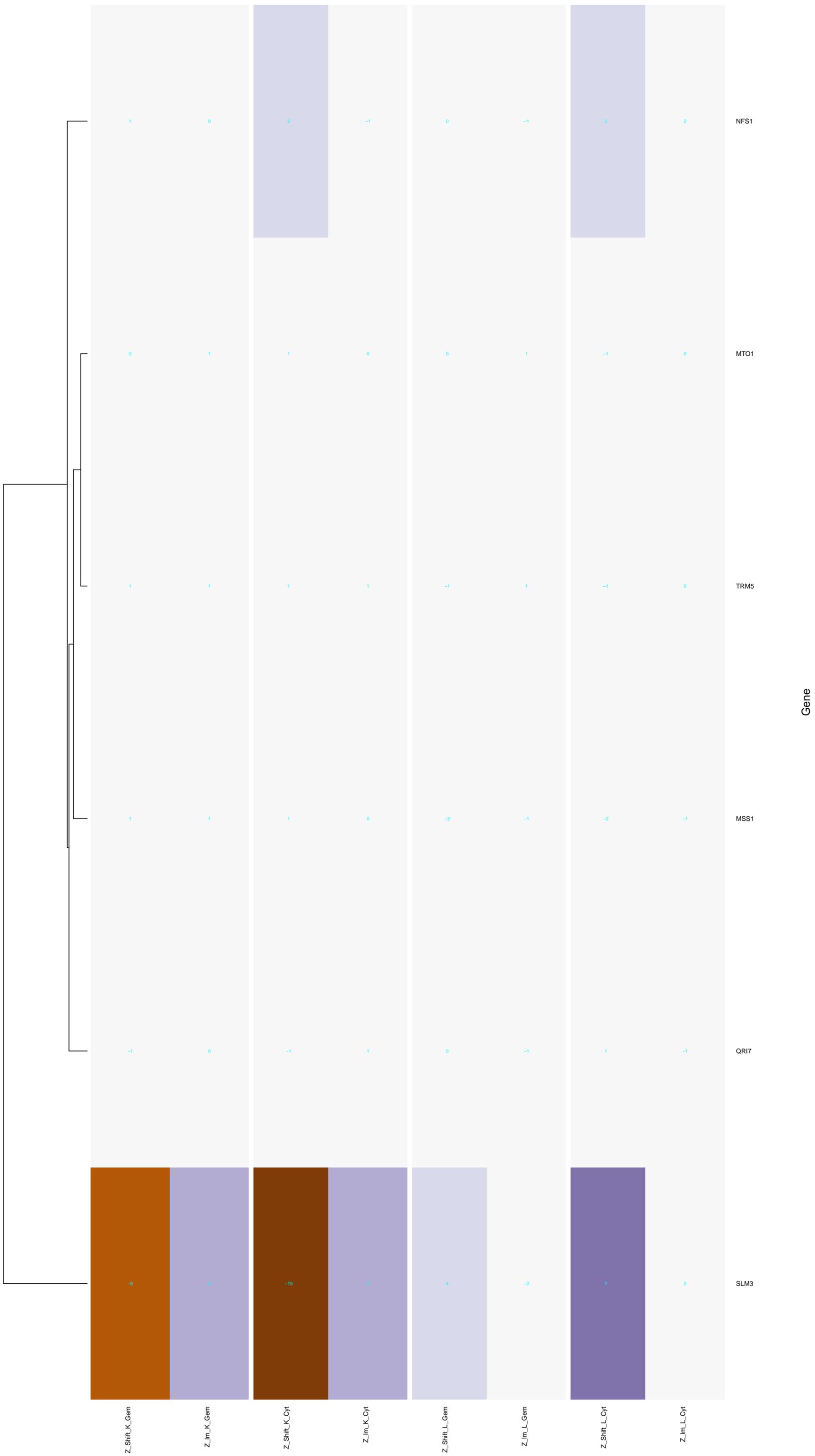
tRNA thio-modification



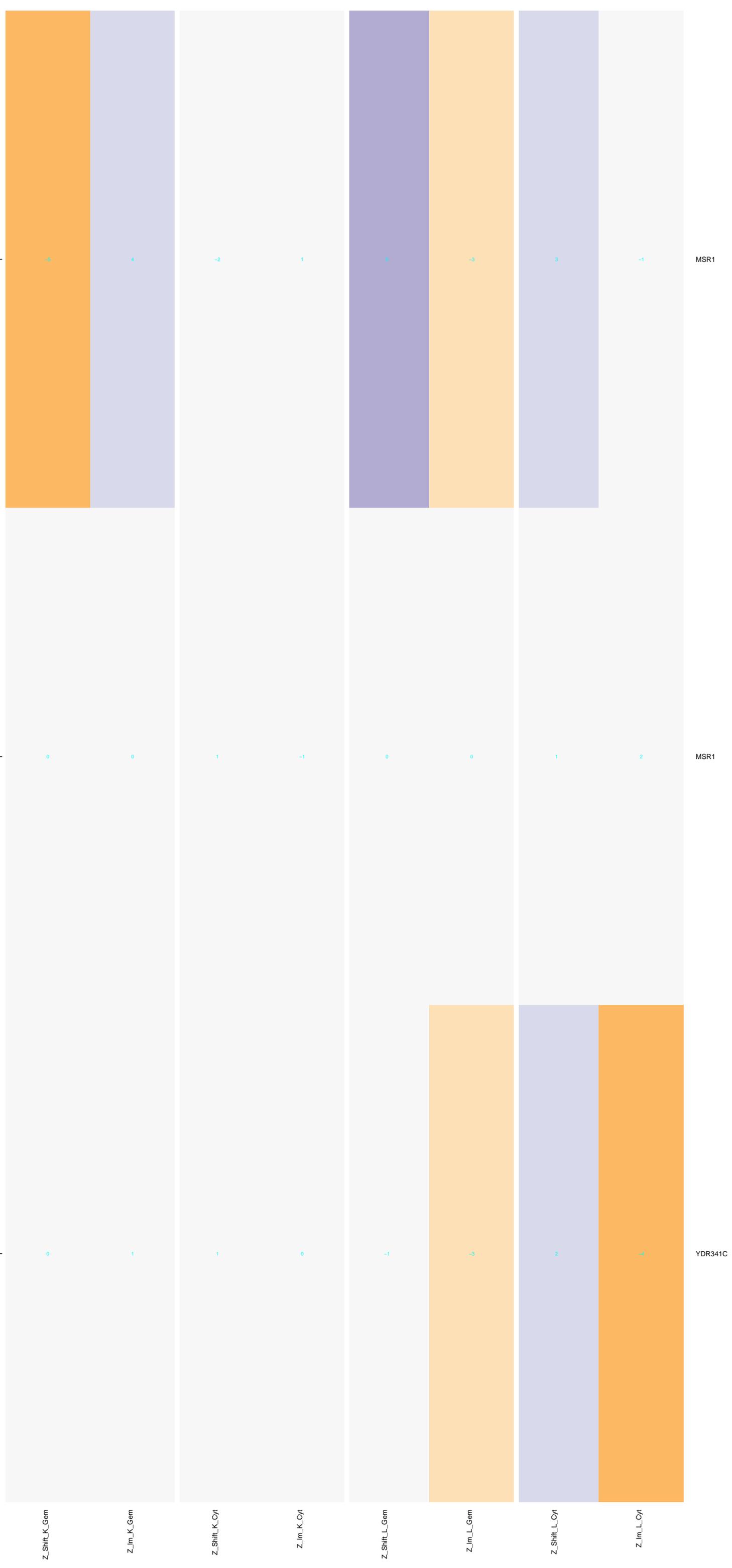
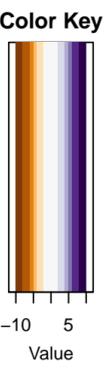
Color Key



mitochondrial tRNA modification

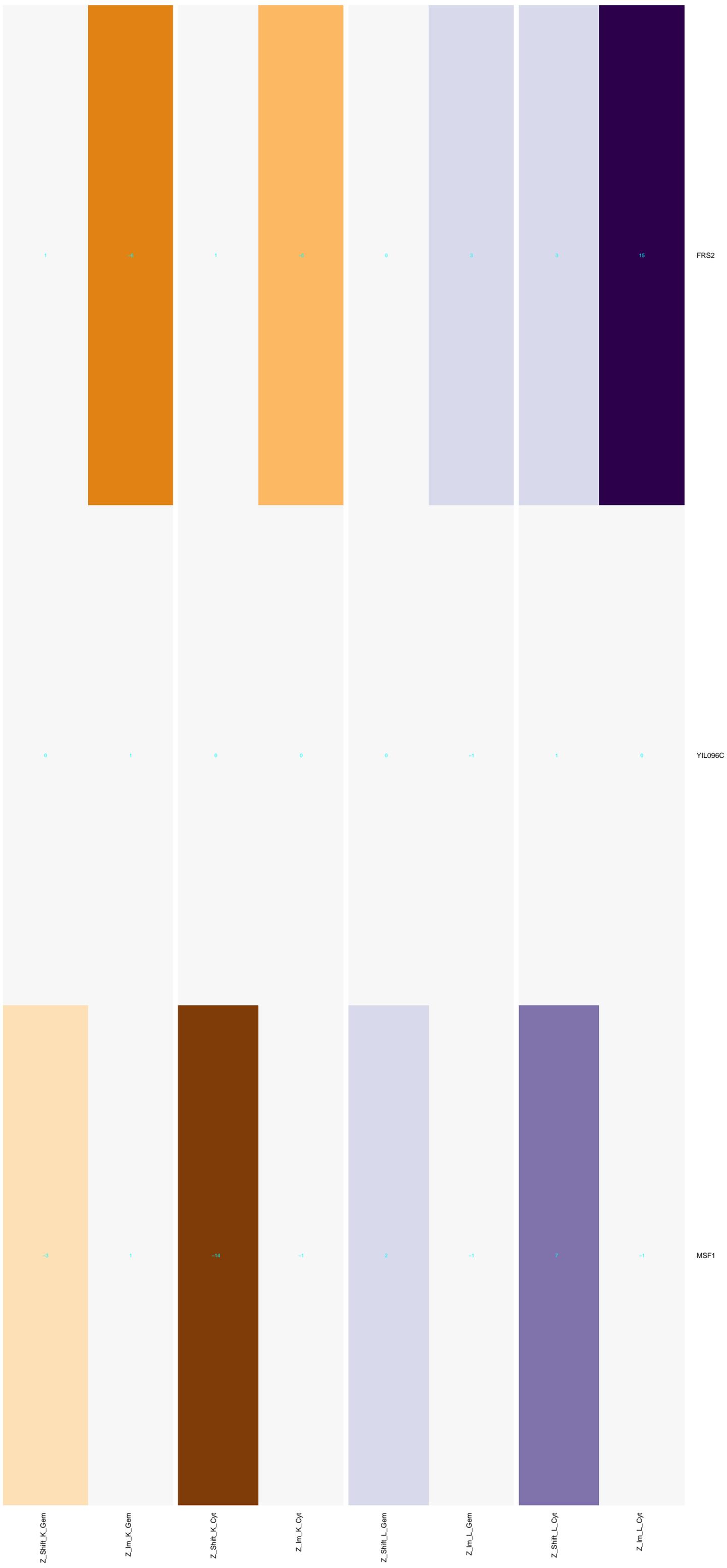
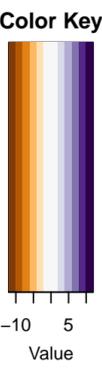


arginyl-tRNA aminoacylation



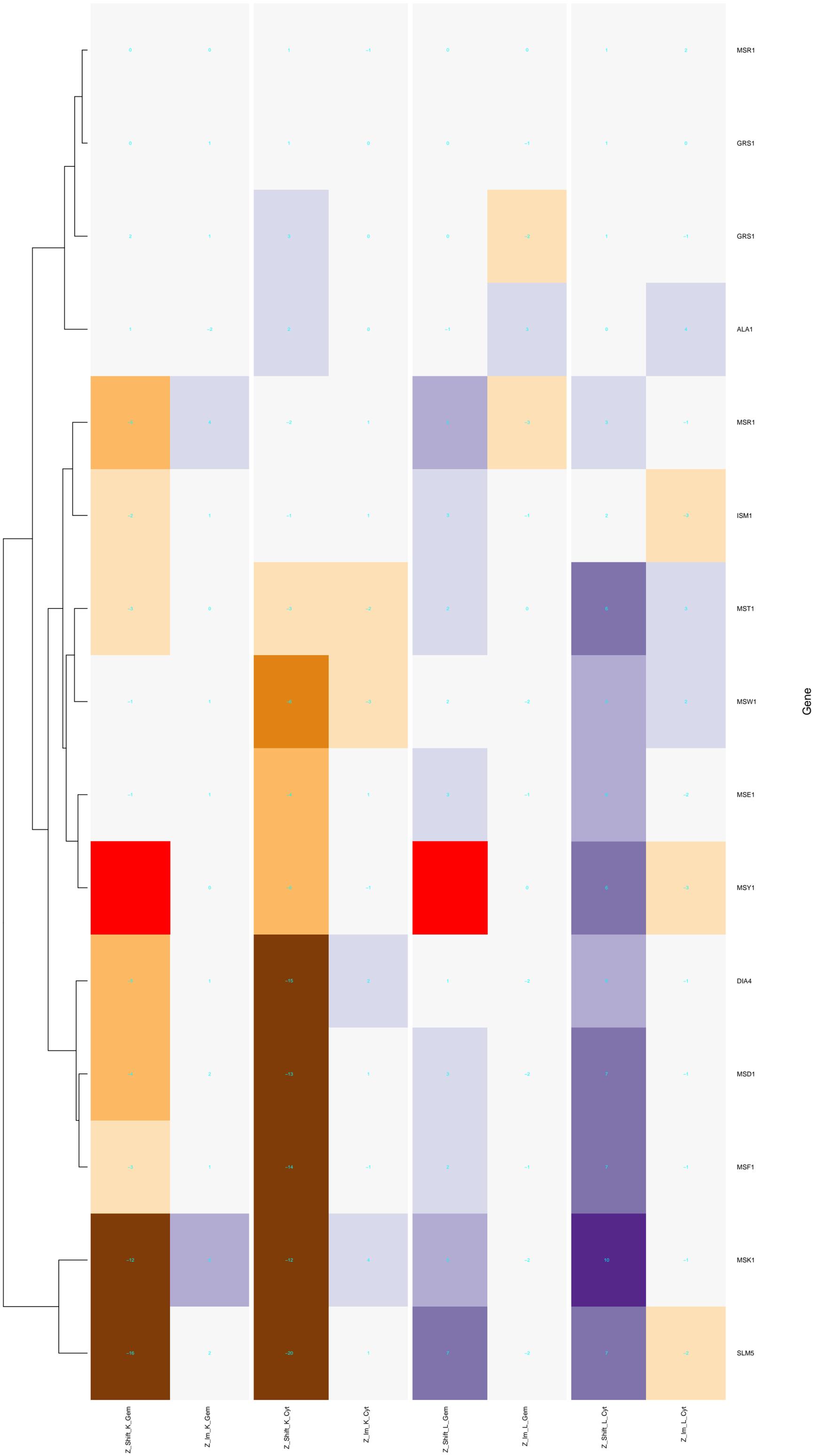
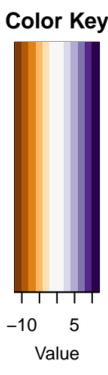
Gene

phenylalanyl-tRNA aminoacylation

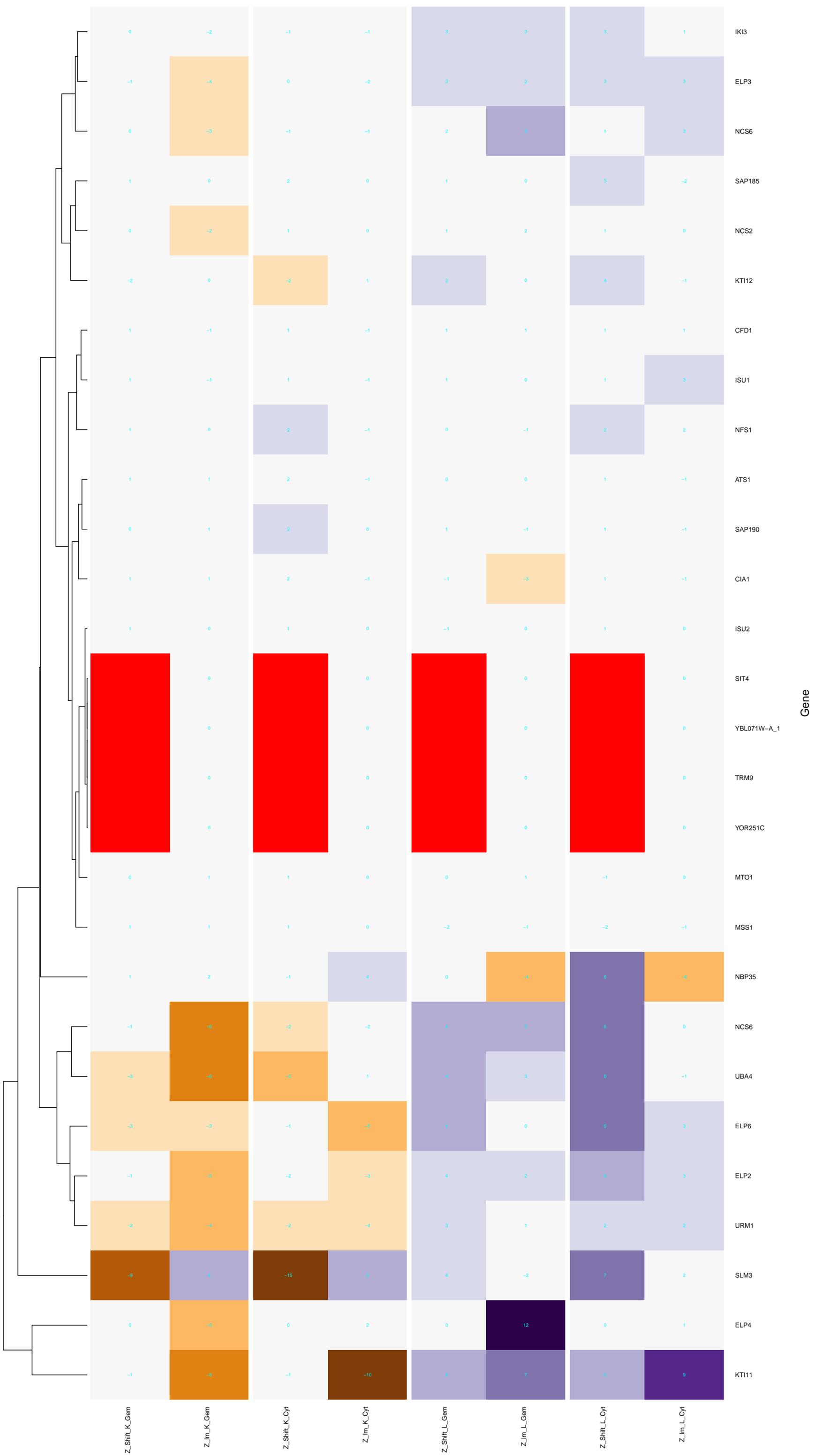
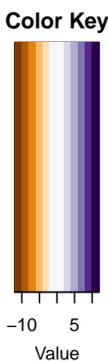


Gene

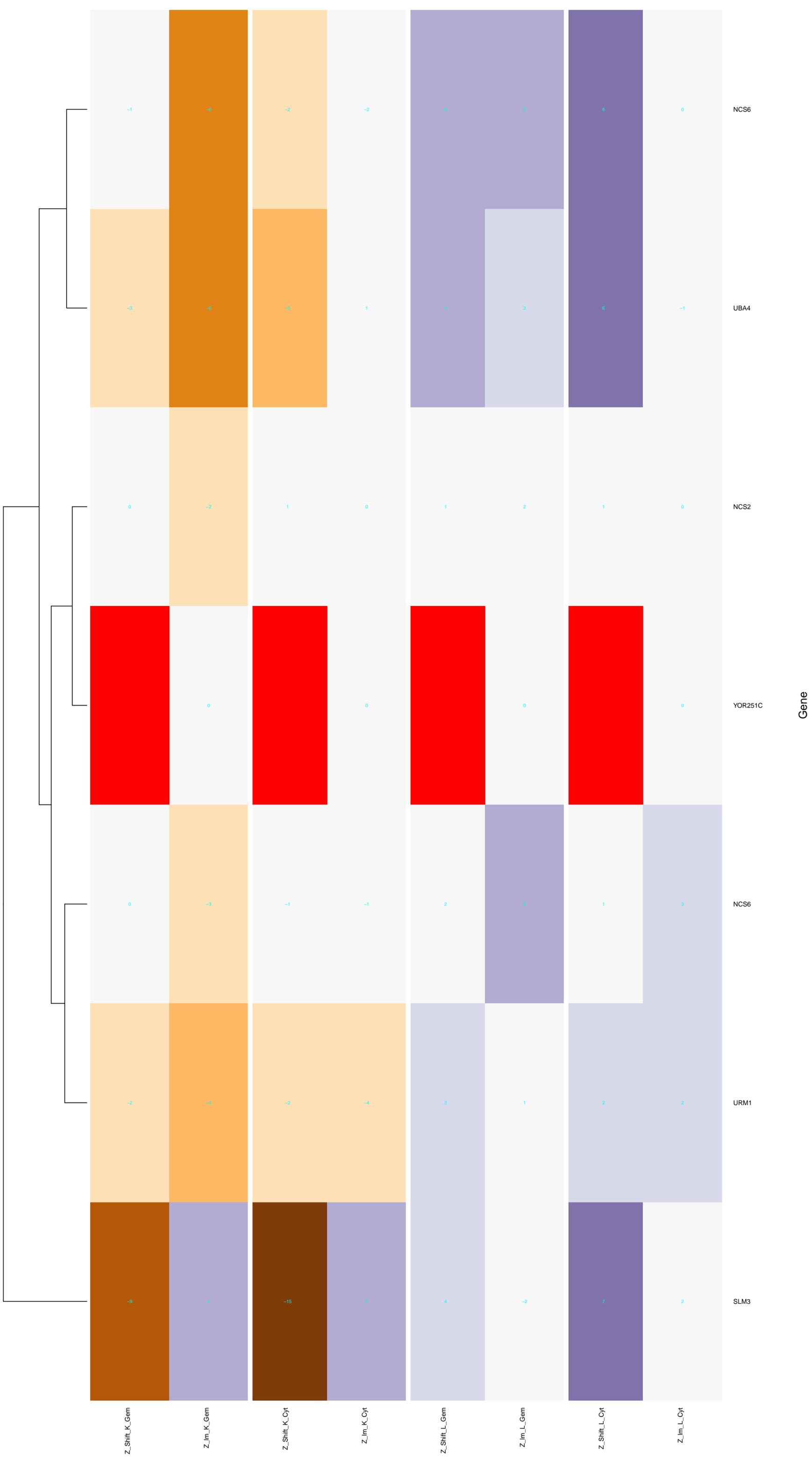
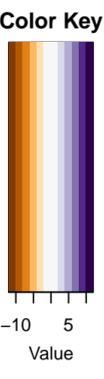
tRNA aminoacylation for mitochondrial protein translation



tRNA wobble uridine modification



tRNA wobble position uridine thiolation



mitochondrial tRNA wobble uridine modification

