

## Supplementary Figures

Figure S1\_ Example of *D.renale* mitocondrial assembly and maped reads. Assembly smtDNA\_II was used as reference sequence. Alignment was obained by minimap2 and visualization was made by IGV

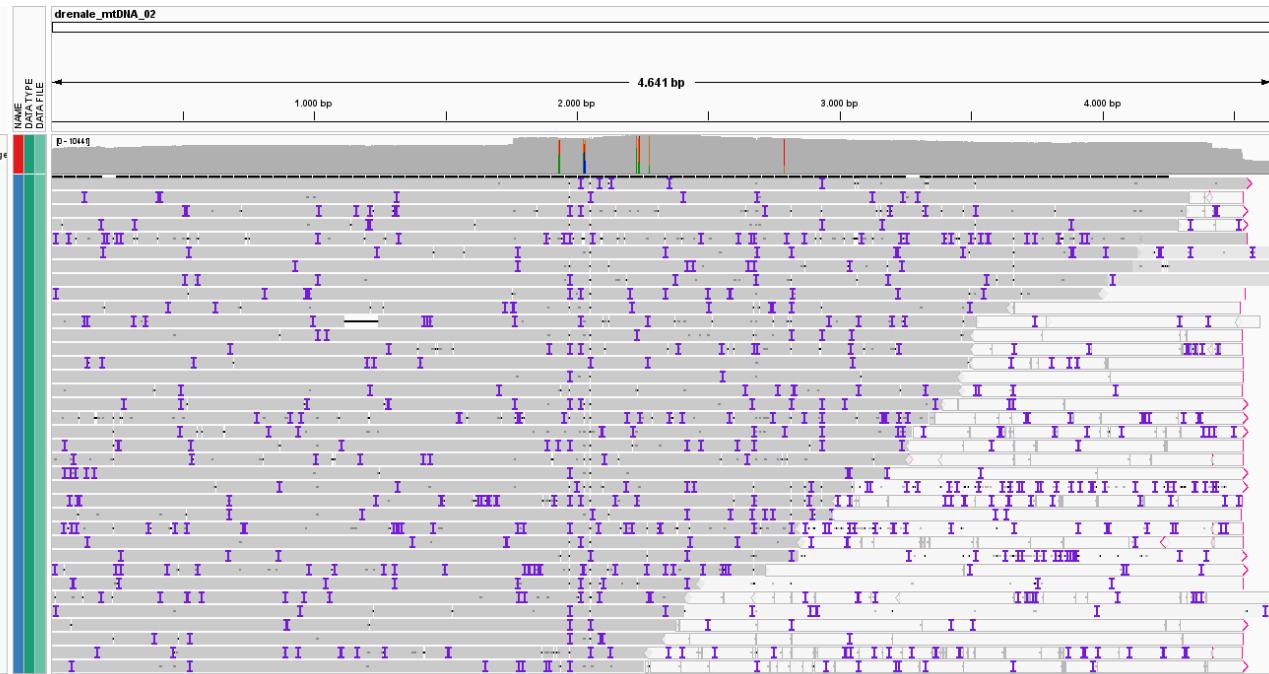


Figure S2. Distribution of read length by PCGs. Significance was evaluated by t-test (Rpackage)

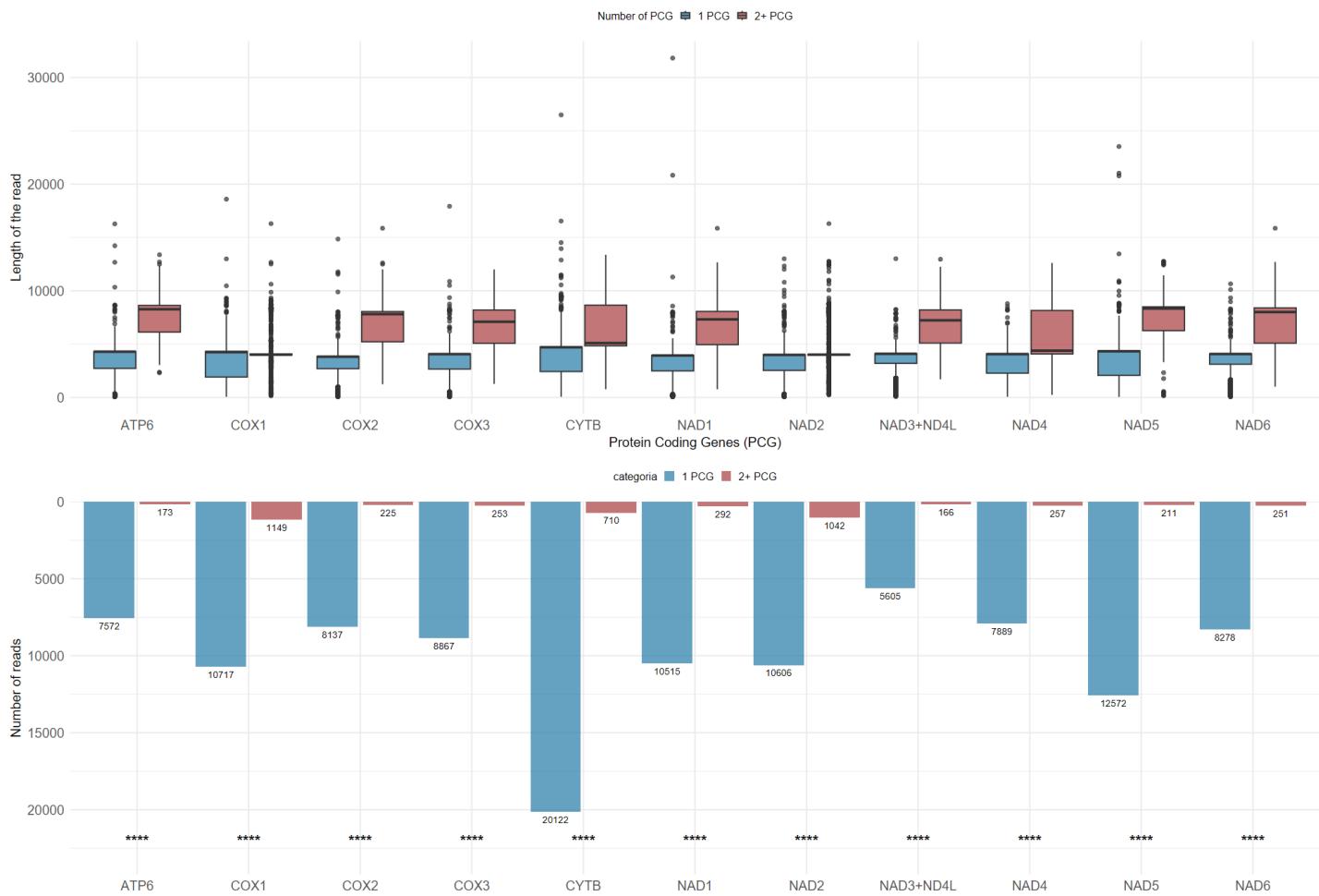
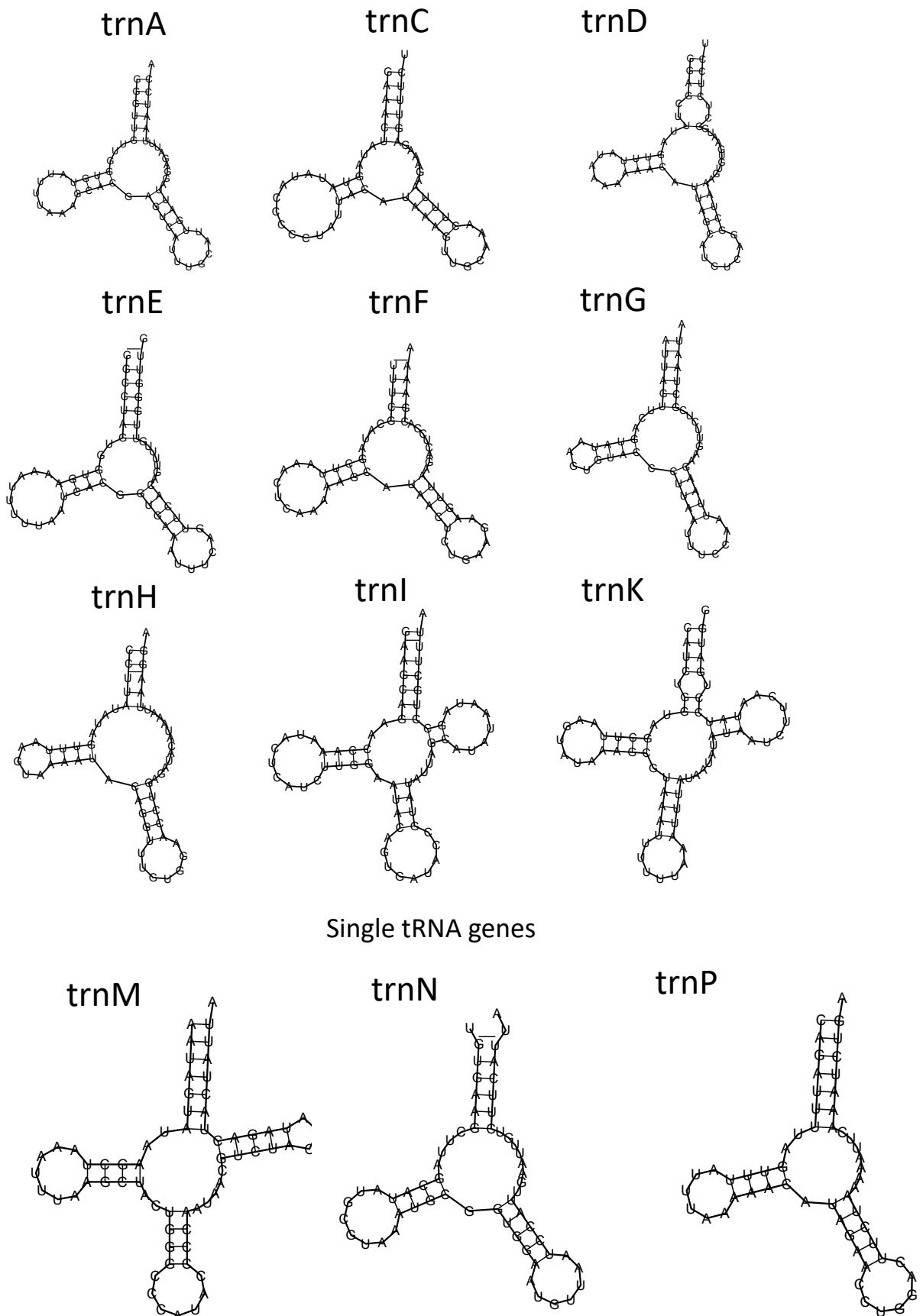
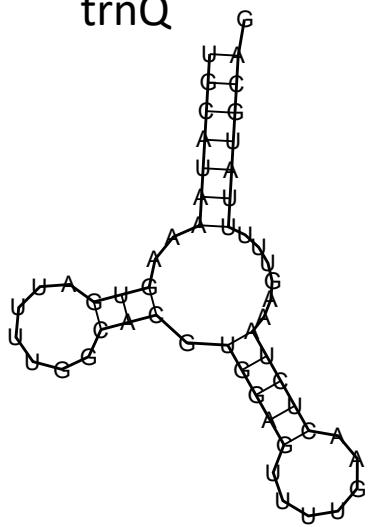


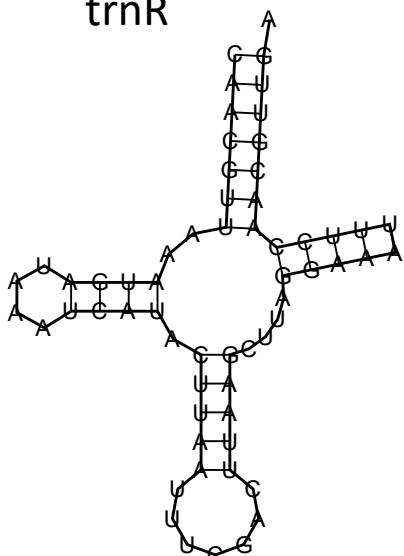
Figure S3. *D. renale* mitogenomes tRNA and rRNA genes structures. Folding structures were obtained by Mitos2. Duplicated genes are labeled as “1” and “2”



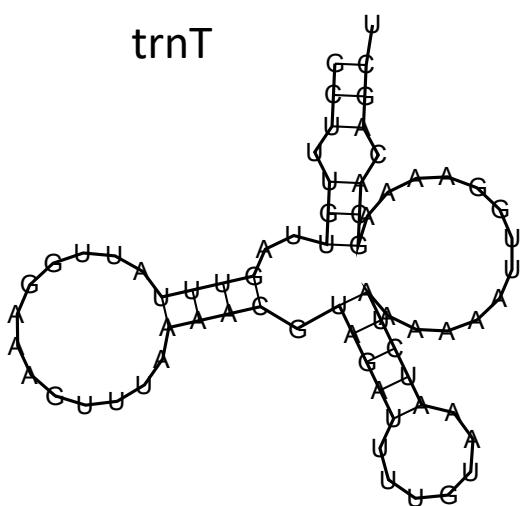
trnQ



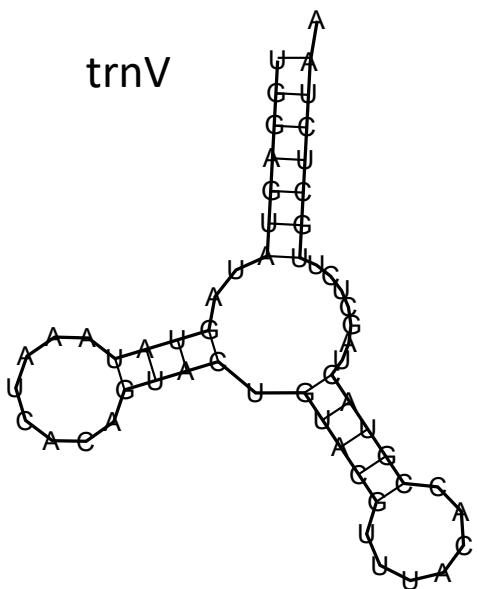
trnR



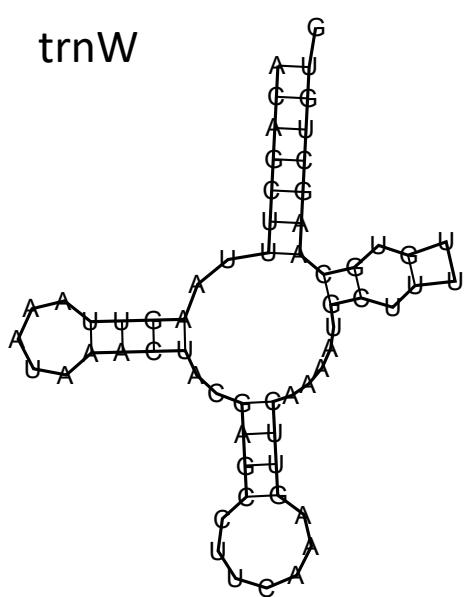
trnT



trnV

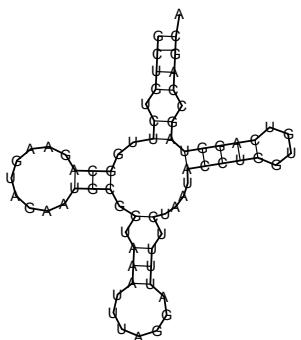


trnW

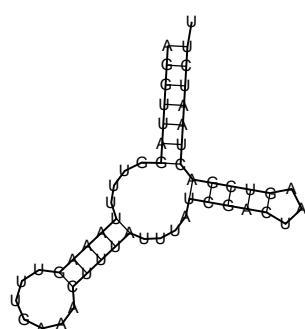


Single tRNA genes

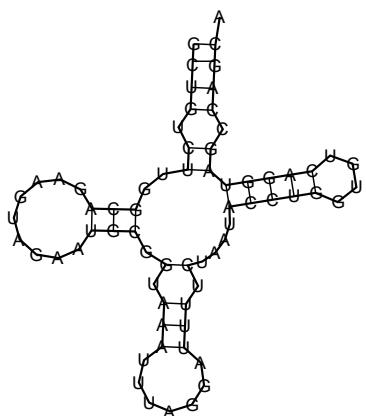
trnS1



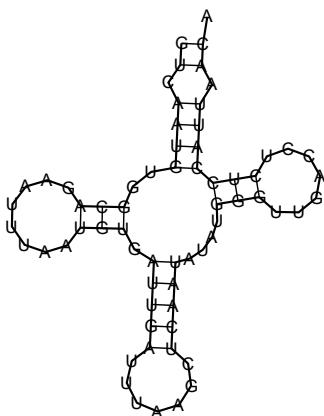
trnS2



trnL1

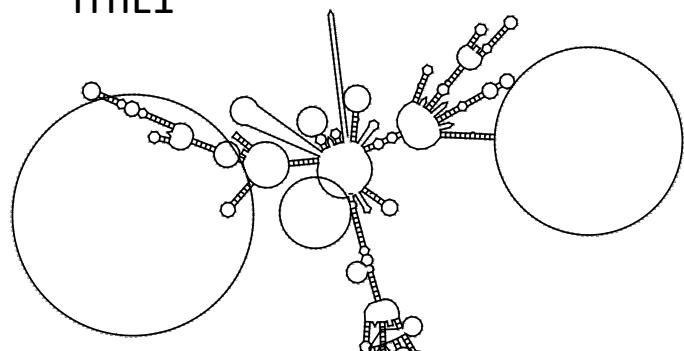


trnL2

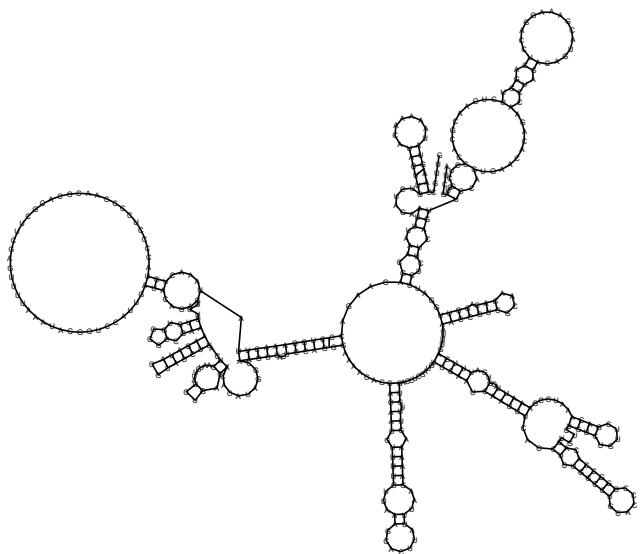


Duplicated tRNA genes

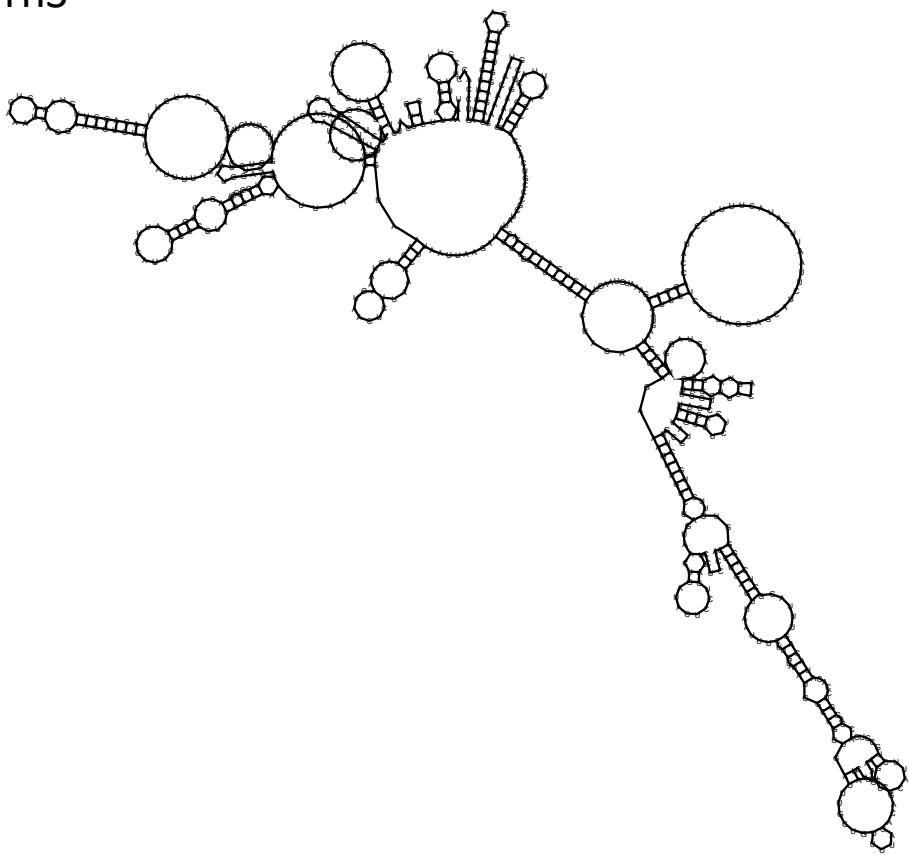
rrnL1



rrnL2



rrnS



rRNA genes