

RNA

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Cover Illustration: Human RNase mitochondrial RNA processing ribonucleoprotein complex. (PDB id: 6LT7; Yin C, Bai G, Zhang Y, Huang J. 2021. Crystal structure of human RPP20-RPP25 proteins in complex with the P3 domain of lncRNA RMRP. J Struct Biol 213: 107704). Human RNase MRP (mitochondrial RNA processing) is an essential RNA-containing enzyme involved in the processing of ribosomal RNAs, mitochondrial RNAs, and certain messenger RNAs. Shown is a dimeric complex formed by the RNA P3 domain and the RPP20 and RPP25 subunits. Some inherited disease-related mutations map to the protein–RNA interface. RNA backbone is displayed as a red ribbon; block bases use NDB colors: A—red, C—yellow, G—green, U—cyan; ribonuclease P p20 and p25 subunits are displayed as gold ribbons. Cover image provided by the Nucleic Acid Database (ndbserver.rutgers.edu). Image generated using DSSR and PyMOL (Lu XJ. 2020. Nucleic Acids Res. 48: e74).

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