

RNA

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Cover Illustration: Structural assembly of RNA and protein in the human telomerase dimer (PDB id: 9QB2; Balch S, Sekne Z, Franco-Echevarría E, Ludzia P, Kretsch RC, Sun W, Yu H, Ghanim GE, Thorkelsson S, Ding Y, Das R. 2025. Cryo-EM structure of human telomerase dimer reveals H/ACA RNP-mediated dimerization. *Science* **389**: eadr5817). The structure of a working telomerase ribonucleoprotein bound to telomeric RNA shows the variety in human telomerase architecture and provides a foundation for further studies on how the complex can be adjusted, assembled, and function. The RNA backbone is depicted by a gray ribbon, with bases and Watson-Crick base pairs represented as color-coded blocks: A/A-U in red, C/C-G in yellow, G/G-C in green, U/U-A in cyan; the proteins are shown as gold ribbons. Cover image provided by X3DNA-DSSR, an NIGMS National Resource for Structural Bioinformatics of Nucleic Acids (R24GM153869; skmatics.x3dna.org). Image generated using DSSR and PyMOL (Lu XJ. 2020. *Nucleic Acids Res* **48**: e74).

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