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Cover Illustration: Human tRNA splicing endonuclease (PDB id: 7ZRZ; Sekulovski S, Susac L, Stelzl LS, Tampe R, Trowitzsch S. 2023. Structural basis of substrate recognition by human tRNA splicing endonuclease TSEN. *Nat Struct Mol Biol* **30**: 834–840). CryoEM structure of heterotetrameric human tRNA splicing endonuclease TSEN, which catalyzes intron excision from precursor tRNAs utilizing two composite active sites. Mutations in TSEN and its associated RNA kinase are linked to neurodegenerative diseases. The tRNA is displayed using NDB colors: A—red, C—yellow, G—green, U—cyan; protein subunits are shown as semitransparent surfaces. Cover image provided by the Nucleic Acid Knowledgebase (nakb.org). Image generated using ChimeraX (*Protein Sci* **30**: 70–82).

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