

# RNA

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*Cover Illustration: Dicer2-loquacious-dsRNA complex (PDB id: 7W0D; Su S, Wang J, Deng T, Yuan X, He J, Liu N, Li X, Huang Y, Wang HW, Ma J. 2022. Structural insights into dsRNA processing by Drosophila Dicer-2-Loqs-PD. Nature 607: 399–406). Drosophila RNase III enzyme Dicer-2, aided by cofactor Loquacious, generates 21 base-pair siRNA duplexes from long double-stranded RNAs. The cryo-electron microscopy structure of Dicer-2-Loquacious is shown here in midtranslocation state processing a 50 bp dsRNA substrate. dsRNA is displayed as red and green ribbons with block bases in NDB colors: A—red, C—yellow, G—green, U—cyan; the Dicer-2 dimer is gold; C-terminal fragments of Loquacious are white. Cover image provided by the Nucleic Acid Database (NDB)/Nucleic Acid Knowledgebase (NAKB; nakb.org). Image generated using DSSR and PyMOL (Lu XJ. 2020. Nucleic Acids Res 48: e74).*

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