

RNA

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Cover Illustration: Type III CRISPR effector complex (PDB id: 7UZY; Smith EM, Ferrell S, Tokars VL, Mondragon A. 2022. Structures of an active type III-A CRISPR effector complex. Structure 30: 1109–1128.e6). Type III CRISPR (clustered regularly interspaced short palindromic repeats) systems are unique in that they can degrade both RNA and DNA. The cryo-EM structure of the type III-A Staphylococcus epidermidis CRISPR effector complex is shown in complex with noncognate target RNA. RNA is displayed in NDB colors: A—red, C—yellow, G—green, U—cyan, with disordered stretches represented as dotted lines. Proteins are displayed as ribbons, with the endo-ribonuclease shaded purple, the single-strand deoxyribonuclease shaded green, and two additional subunits shown in orange (Csm2) and magenta (Csm4). Cover image provided by the Nucleic Acid Database (NDB)/Nucleic Acid Knowledgebase (NAKB; nakb.org). Image was created using Mol (Sehnal D, Bittrich S, Deshpande M, Svobodová R, Berka K, Bazgier V, Velankar S, Burley SK, Koča J, Rose AS. 2021. Nucleic Acids Res 49: W431–W437).*

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