

THE SMALL GTPASE RAN

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Ran (protein) - Wikipedia

Curr Opin Cell Biol. Jun;15(3) The small GTPase Ran: interpreting the signs. Quimby BB(1), Dasso M. Author information: (1)Laboratory of Gene.

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Importin beta is a mitotic target of the small GTPase Ran in spindle assembly. - PubMed - NCBI

Cell. Jan 12;(1) Importin beta is a mitotic target of the small GTPase Ran in spindle assembly. Nachury MV(1), Maresca TJ, Salmon WC.

Role of Ran GTPase in RNA Processing and Export of RNA from the Nucleus to the Cytosol: Insights from Budding Yeast. Anita K. Hopper. Pages PDF.

Small GTPases form an independent superfamily within the larger class of regulatory GTP hydrolases. This superfamily contains proteins that control a vast .

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Ran exists in the cell in two nucleotide-bound forms: P-loop containing nucleoside triphosphate hydrolase IPR This suggests that the C-terminal extension in RanGDP is crucial for shielding residues in the core domain and preventing the switch regions from adopting a GTP-like form.

Inside the nucleus, RanGTP binds to importin and releases the import cargo. Recommended articles Citing articles 0. The Ran protein has also been implicated in the control of DNA synthesis and cell cycle progression, as mutations in Ran have been found to disrupt DNA synthesis. FRET fluorescence resonance energy transfer.

EC number Enzyme superfamily Enzyme family List of enzymes. From Wikipedia, Access Check Access.