

arf family gtpases pdf

ARF Family GTPases PROTEINS AND CELL REGULATION Volume 1 Series Editors: Professor Anne Ridley Ludwig Institute for Cancer Research and Department of Biochemistry and Molecular Biology University College London London United Kingdom

ARF Family GTPases (Proteins and Cell Regulation) - PDF

For the first time experts in the area of signalling research with a focus on the ARF family have contributed to the production of a title devoted to ARF biology. A comprehensive phylogenetic analysis of the ARF family, tables of the ARF GEFs and ARF GAPs, and more than a dozen chapters describing

ARF Family GTPases | Richard A. Kahn | Springer

For the first time experts in the area of signalling research with a focus on the ARF family have contributed to the production of a title devoted to ARF biology.

ARF Family GTPases | SpringerLink - link.springer.com

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Arf family GTPases: summary of names, identifiers and N-terminal sequences Information is given for the human members of the Arf family, as well as four likely pseudogenes.

(PDF) Arf family GTPases: Roles in membrane traffic and

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Abstract. A phylogeny of the Arf family of proteins has been constructed using sequence data available from the complete (or nearly complete) genomes of six model eukaryotic species; including three animals, two fungi and a protist.

The Arf Family Tree | SpringerLink

Database mining and phylogenetic analysis of the Arf (ADP-ribosylation factor) superfamily revealed the presence in mammals of at least 22 members, including the six Arfs, two Sars and 14 Arl (Arf-like) proteins. At least six Arf family members were found in very early eukaryotes, including orthologues of Arf, Sar, Arl2, Arl3, Arl6 and Arl8.

Arf family GTPases: roles in membrane traffic and

ARF family: ADP Ribosylation Factors (ARFs) are members of the ARF family of GTP-binding proteins of the Ras superfamily. ARF family proteins are ubiquitous in eukaryotic cells, and six highly conserved members of the family have been identified in mammalian cells.

Gene Family: ARF GTPase family - HGNC database of human

While SAR/ARF members do not require specific factors for this process, dissociation of most RAB GTPases from membranes is mediated by a conserved protein family, the RAB GDP dissociation inhibitor (RAB GDI).

The Regulatory RAB and ARF GTPases for Vesicular

ARF family members employ a catalytic arginine mechanism and mutation of that single residue, even to the conservative lysine, results in a substantial loss of GAP activity (5, 6).

Characterization of Recombinant ELMOD (Cell Engulfment and

Summary of the plasmids directing expression of human ARF family GTPases (ARF/ARL/SAR) in mammalian cells or bacteria, using the Gateway cloning system. The GTPase is listed, along with pseudonyms, NCBI Gene ID number, name of the plasmid as it appears in the Addgene collection, short

Tool box: Plasmids for the expression or knockdown of

Download PDF version. Small GTPases * ... There are 12 annotated members of the Arf/Sar family of small GTPases in the *C. elegans* genome. Like the Rhos and the Rabs, the multiple Arf/Sar-family molecules might have overlapping roles in development and physiology and might have been missed in traditional forward-genetic screens. ...

Small GTPases - WormBook

The small ADP ribosylation factor (Arf) GTP-binding proteins are major regulators of vesicle biogenesis in intracellular traffic. They are the founding members of a growing family that includes Arl (Arf-like), Arp (Arf-related proteins) and the remotely related Sar (Secretion-associated and Ras-related) proteins.

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