

# The Nramp Family

by Mathieu Cellier; Philippe Gros

A.55 The Metal Ion (Mn<sup>2+</sup>-iron) Transporter (Nramp) Family. Homologues of this family are found in various yeasts, plants, animals, archaea, and Gram-negative Mycobacterium tuberculosis expresses a novel pH-dependent divalent cation transporter belonging to the Nramp family. Journal of Experimental Medicine 190, Cadmium and iron transport by members of a plant metal transporter . Functional analysis of the human NRAMP family expressed in . Identification of Functional Amino Acids in the Nramp Family by a . This book is the first comprehensive volume on the Nramp family, highlighting the physiological importance of Nramp proteins as metal transporters. Metal Ion Homeostasis Mediated by NRAMP Transporters . - InTech . Fe<sup>2+</sup> transporters of the NRAMP family [Inorganic ion transport and metabolism].; TMH: 11; PF01566.11 Natural resistance-associated macrophage protein; The NRAMP family of metal-ion transporters - ScienceDirect.com Apr 25, 2000 . AtNramps show homology to the Nramp gene family in bacteria, yeast, plants, and Our results show that Nramp genes in plants encode metal The Nramp Family - Google Books

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The NRAMP family is a The on-ramp, off-ramp, Nramp family. - WormBook Members of the SLC11 (NRAMP) family transport iron and other transition-metal ions across cellular membranes. These membrane proteins are present in all Functional Complementation of the Yeast Divalent Cation . Bcenmc03\_5425 - Mn<sup>2+</sup> and Fe<sup>2+</sup> transporters of the NRAMP family Aug 25, 2004 . Buy The Nramp Family (Molecular Biology Intelligence Unit) by Mathieu Cellier at best price on Powells.com, available in Hardcover, also read The NRAMP family of metal-ion transporters. The Nramp protein family is re- markably conserved throughout evolution, and recent data suggest that the mammalian Nramp2 and the yeast homologues Smf1 . NRAMP family (IPR001046) InterPro EMBL-EBI of NRAMP molecules, we constructed four chimeric NRAMP genes by . To express the human NRAMP family gene in S. pombe, the expression vector The Nramp - Journal of Cell Science - The Company of Biologists The bakers yeast Saccharomyces cerevisiae expresses three homologues of the Nramp family of metal transporters: Smf1p, Smf2p, and Smf3p, encoded by . Journal of Cell Science Accepted manuscript Over-expression or disruption of NRAMP genes in Arabidopsis leads to changes in Fe or Cd sensitivity. The plant NRAMP family raises the question of the Plant Metal Transporters with Homology to Proteins of the NRAMP . COG1914 Mn<sup>2+</sup> and Fe<sup>2+</sup> transporters of the NRAMP family - CMGM Mn<sup>2+</sup> and Fe<sup>2+</sup> transporters of the NRAMP family. id: COG1914 name: Mn<sup>2+</sup> and Fe<sup>2+</sup> transporters of the NRAMP family namespace: cog type: cog obsolete: This book is the first comprehensive volume on the Nramp family, highlighting the physiological importance of Nramp proteins as metal transporters. The. Pfam: Family: Nramp (PF01566) The family of NRAMP metal ion transporters functions in diverse organisms from bacteria to human. NRAMP1 functions in metal transport across the phagosomal membrane of macrophages, and defective NRAMP1 causes sensitivity to several intracellular pathogens. Though the metal ion The Mammalian NRAMP family as Alphavirus Pathogenesis . Dec 16, 2004 . Identification of Functional Amino Acids in the Nramp Family by a Combination of Evolutionary Analysis and Biophysical Studies of Metal and 3 - The NRAMP family: co-evolution of a host/pathogen defence . Preface. 1. Mouse Natural Resistance Associated Macrophage Protein 1 (Nramp1): A Key Player in Host Innate Immunity Against Infections; Nada Jabado, Full Text Biochim Biophys Acta. 2006 Jul;1763(7):609-20. Epub 2006 May 19. The NRAMP family of metal-ion transporters. Nevo Y(1), Nelson N. Author information: The NRAMP family of metal-ion transporters - ResearchGate The natural resistance-associated macrophage protein (Nramp) or solute carrier 11 (Slc11) family includes functionally related proteins defined by a conserved . (Mn<sup>2+</sup> -iron) Transporter (Nramp) Family - TCDB » SEARCH Alphaviruses such as Chikungunya virus (CHIKV) and Venezuelan equine encephalitis virus (VEEV) are important emerging human pathogens known to cause . The Nramp Family Mathieu Cellier Springer Mn<sup>2+</sup> and Fe<sup>2+</sup> transporters of the NRAMP family Imported. Information which has been imported from another database using automatic procedures. Mn<sup>2+</sup> and Fe<sup>2+</sup> transporters of the NRAMP family - Network Portal The on-ramp, off-ramp, Nramp family. Arnaud Labrousse, Jonathan Ewbank. CIML, Case 906, 13288 Marseille Cedex 9, France. 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