

Title (en)

PROTEIN PHOSPHATASES AND DIAGNOSIS AND TREATMENT OF PHOSPHATASE-RELATED DISORDERS

Title (de)

PROTEINPHOSPHATASEN SOWIE DIAGNOSE UND BEHANDLUNG VON PHOSPHATASE BEDINGTEN BESCHWERDEN

Title (fr)

NOUVELLES PHOSPHATASES DE PROTEINES ET DIAGNOSTIC ET TRAITEMENT DES TROUBLES LIES A LA PHOSPHATASE

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Application

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Abstract (en)

[origin: WO0112819A2] The present invention concerns polypeptides, nucleic acids encoding such polypeptides, cells, tissues and animals containing such nucleic acids, antibodies to the polypeptides, assays utilizing the polypeptides, and methods relating to all of the foregoing. Preferably, the polypeptides of the present invention are phosphatases. Through the use of a "motif extraction" bioinformatics script, additional mammalian members of the phosphatase family are herein presented. These phosphatases include MKP-like proteins, a CDC14-like protein, a PTEN-like protein, and myotubularin (MTM)-like proteins. Classification of proteins as new members of established families has proven highly accurate not only in predicting motifs present in the remaining non-catalytic portion of each protein, but also in their regulation, substrates, and signaling pathways.

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