Peroxisome Biogenesis: Identification and Characterisation of the Import Receptor for Peroxisomal Proteins Containing a C-Terminal Targeting Sequence

Design and Characterization of a Chromosomal Vector for - Google Books Result Mar 31, 1995 To identify proteins interacting with the C-terminal peroxisomal targeting signal Sequence analysis of the full-length cDNA revealed the presence of an open at least nine gene products are required for peroxisome biogenesis(7). In an attempt to identify the human PTS1 import receptor, we utilized the **Identification and Characterization of the Putative Human** Different types of peroxisomal targeting signals (PTS) can direct proteins from the the C-terminal 3 amino acids of the majority of peroxisomal matrix proteins, In line with the idea that the import receptors shuttle between the cytosol and sequencing of the PEX19 gene and the identification and characterization of the **The peroxisome biogenesis disorder group 4 gene, PXAAA1** The proteins required for peroxisome biogenesis are called peroxins (PEX) [4]. Model for import of peroxisomal matrix proteins containing a PTS1 in S. cerevisiae. by the receptor Pex5, which is a modular protein containing a C-terminal .. by an ER targeting signal sequence before being routed to peroxisomes [155]. **Identification of Pexl3p, a Peroxisomal Membrane Receptor for the** 1995 F.R. WALDENBERGER, NOvel Cardiac Assist Devices with Different Unloading Capacities. 1995 M. FRANSEN, Peroxisome Biogenesis: Identification and Characterization of the Import Receptor for Peroxisomal Proteins Containing a C-Terminal Targeting Sequence 1996 D. MOECHARS, A Transgenic Mouse **Human PEX7 encodes the peroxisomal PTS2 receptor and is** Pex14p is a central component of the peroxisomal protein import machinery, which has been receptor for the peroxisomal targeting signal 1 (PTS1), a result consistent with a from the analysis of peroxisome biogenesis disorders (PBD). . For the C-terminal tagging of HsPex14p with the myc epitope (23), HsPEX14. **Peroxisomal biogenesis: multiple pathways of protein import.** The functionally complementing gene PAY32 encodes a protein, Pay32p, of 598 amino acids (66,733 D) In wild-type peroxisomes, Pay32p is associated primarily with the inner surface of the peroxisomal Identification

and characterization of the putative human peroxisomal C-terminal targeting signal import receptor. We have identified the human gene PXAAA1 based upon its similarity to Expression of PXAAA1 restored peroxisomal protein import in fibroblasts from 16 . of the putative human peroxisomal C-terminal targeting signal import receptor. . and characterization of PAS5: a gene required for peroxisome biogenesis in the **Identification and Characterization of the Putative Human** complemented by the identification of components of the cellular peroxisomal protein target reporter proteins to peroxisomes in these cells (28). The observation that an insect is targeted by a C-terminal -SKL sequence, which is absent from . family of tripeptide receptors with different specificities be operat- ing in some **Identification and Characterization of the Putative Human** Characterization, Impact of Acute Exacerbations and Pulmonary Rehabilitation Fabio Pitta M. FRANSEN, Peroxisome Biogenesis: Identification and Characterization of the Import Receptor for Peroxisomal Proteins Containing a C-Terminal Targeting Sequence. 1996 122. D. MOECHARS, A Transgenic Mouse Model for **The Visualization of Peroxisomal Proteins Containing a C-Terminal** The biogenesis of peroxisomes conceptually consists of: (1) the formation of the First, the peroxisomal protein import machinery allows the translocation of fully First, the cargo is recognized in the cytosol by its cognate receptor protein. proteins contain a C-terminal type I peroxisomal targeting sequence (PTS1), and **Genomic and Biochemical Characterisation of the B/PR61 Regulatory - Google Books Result** Hunsenula polymorpha contains a peroxisomal targeting signal. Baumgart E. Volkl A: Ultrastructural aspects of the biogenesis of peroxisomes in rat liver. PP: Identification and characterization of the putative human peroxisomal C-tcrminal targeting signal Gietl C: Protein targeting and import into plant peroxisomes. **Identification and Characterization of the Putative Human** HsPex14p is a carbonate-resistant peroxisomal membrane protein with its C HsPex14p binds the cytosolic receptor for the peroxisomal targeting signal 1 (PTS1), of peroxisome biogenesis in general and peroxisomal protein import in For the C-terminal tagging of HsPex14p with the myc epitope (23), HsPEX14 was **Tetratricopeptide repeat domain of Yarrowia lipolytica Pex5p is** Interestingly, most peroxisome biogenesis disorders are caused by a failure to Peroxisomal membrane proteins are targeted and inserted (2) In vitro import assays are being developed in order to identify factors . In the case of the consensus tripeptide sequence, the three C-terminal amino acids bind the receptor with **Physical Activities in Daily Life in Patients with COPD: - Google Books Result** Proteins Containing a C-Terminal Targeting Sequence on Western Blot by Using the Biotinylated PTS1-Receptor containing a C-ter- products are required for peroxisome biogenesis and have identified the import receptor for peroxisomal pro- pressed characterization of receptorligand interactions in wells, was **Multiple Pathways for Protein Transport to Peroxisomes - NCBI - NIH** To identify proteins interacting with the C-terminal peroxisomal targeting signal (PTS1), Sequence analysis of the full-length cDNA revealed the presence of an open reading which are required for the formation of normal peroxisomes in yeast. and most probably is the long sought after human PTS1 import receptor. **Peroxisomal protein translocation - ScienceDirect** The import of peroxisomal matrix proteins is dependent on one of two targeting otherwise N-terminal targeting signal is fused to the C-terminus of other proteins, i.e. the are consistent with the view that Pas7p is the general receptor of the PTS2. define complementation group 2 of the peroxisome biogenesis disorders. **The import receptor for the peroxisomal targeting signal 2 (PTS2) in** We have identified an S. cerevisiae integral peroxisomal membrane protein of M of for the COOH-terminal tripeptide signal sequence (PTS1), but not with Pex7p in Pex13p are unable to import peroxisomal matrix proteins containing PTS1 PAS1, a yeast gene required for peroxisome biogenesis, encodes a member of **Protein Trafficking in Plant Cells - Google Books Result** We report the cloning of PER6, a gene essential for peroxisome biogenesis in the Per6p has significant overall sequence similarity with the human peroxisome from the peroxisomal disorder Zellweger syndrome, and with car1, a protein of the putative human peroxisomal C-terminal targeting signal import receptor. **Targeting signals in peroxisomal membrane proteins - ScienceDirect** targeting signals. (PTSs),1 acting in concert with specific PTS receptors, account vivo evidence for direct import from the cytosol to peroxisomes exists, to my **Import of proteins into peroxisomes - ScienceDirect** Originally, the peroxisomal targeting signal 1 (PTS1) was defined as a tripeptide at the The corresponding receptor PEX5 initiates the translocation of proteins by Import into peroxisomes therefore differs from the import mechanisms into the .. C-terminal sequences identified solely by means of interaction with the TPR **Characterization of Myocardial Ischemia & Infarction: Experimental - Google Books Result** This review deals with the targeting of peroxisomal membrane proteins (PMPs) Pex3p is a PMP that functions in peroxisome membrane assembly. site for the import receptors of peroxisomal matrix proteins at the peroxisomal membrane. . membrane proteins containing a C3HC4 RING finger motif in the C-terminus. **Protein Translocation into Peroxisomes** 1995 F.R. WALDENBERGER, Novel Cardiac Assist Devices with Different Unloading Capacities. 1995 H. CLAES 1995 M. FRANSEN, Peroxisome

Biogenesis: Identification and Characterization of the Import Receptor for Peroxisomal Proteins Containing a C-Terminal Targeting Sequence. 1996 D. MOECHARS, A **Identification and Characterization of the Human Orthologue of Identification and Characterization of the Putative Human** To identify proteins interacting with the C-terminal peroxisomal targeting signal (PTS1), Sequence analysis of the full-length cDNA revealed the presence of an open reading which are required for the formation of normal peroxisomes in yeast. and most probably is the long sought after human PTS1 import receptor. **Characterization of the Presenilin 1-Telencephalin Interaction and - Google Books Result** WALDENBERGER, Novel Cardiac Assist Devices with Different Unloading Capacities. 1995 108. H. CLAES, Research on M. FRANSEN, Peroxisome Biogenesis: Identification and Characterization of the Import Receptor for Peroxisomal Proteins Containing a C-Terminal Targeting Sequence. 1996 122. D. MOECHARS, A