

Recombinant Full Length Human MCOLN1 Protein, GST-tagged

Cat. No. MCOLN1-6086HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Human MCOLN1 full-length ORF (NP_065394.1, 1 a.a. - 580 a.a.) recombinant protein with GST-tag at N-terminal.

Species

Human

Source

In Vitro Cell Free System

ProteinLength

580 amino acids

Description

This gene encodes a member of the transient receptor potential (TRP) cation channel gene family. The transmembrane protein localizes to intracellular vesicular membranes including lysosomes, and functions in the late endocytic pathway and in the regulation of lysosomal exocytosis. The channel is permeable to Ca(2+), Fe(2+), Na(+), K(+), and H(+), and is modulated by changes in Ca(2+) concentration. Mutations in this gene result in mucopolipidosis type IV. [provided by RefSeq, Oct 2009]

Molecular Mass

91.4 kDa

AA Sequence

MTAPAGPRGSETERLLTPNPGYGTQAGPSPAPPTPPEEEDLRRRLKYFFMSPCDKF
 RAKGRKPKLMLQVVKILVVTVQLILFGLSNQLAVTFREENTIAFRHLFLLGYSDGAD
 DTFAAYTREQLYQAIFHAVDQYLALPDVSLGRYAYVRRGGDPWTNGSGLALCQRY
 HRGHVDPANDTFDIDPMVVTDCIQVDPPERPPPPPSDDLTLLESSSSYKNLTLKFHK
 LVNVTIHFRLKTINLQSLINNEIPDCYTFSVLITFDNKAHSGRIPISLETQAHIQECKHPS
 VFQHGDNFRLLFDVVILTCSLSFLLCARSLLRGFLLQNEFVGFMMWRQRGRVISLW

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ERLEFVNGWYILLVTSDVLTISGTIMKIGIEAKNLASYDVCSILLGTSTLLVWVGVI RYL
 TFFHNYNILIATLRVALPSVMRFCCCVAVIYLG YCFGWIVLGPYHVKFRSLSMVSEC
 LFSLINGDDMFVTFAAMQAQQGRSSLVWLFSQLYLYSFISLFIYMVLSLFIALITGAYD
 TIKHPGGAGAESESELQAYIAQCQDSPTSGKFRRGSGSACSLCCGRDPSEEHSLL
 VN

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes
 Best use within three months from the date of receipt of this protein.

Storage
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [MCOLN1 mucolipin 1 \[Homo sapiens \]](#)

Official Symbol [MCOLN1](#)

Synonyms
 MCOLN1; mucolipin 1; mucolipin-1; ML4; MLIV; MST080; MSTP080; TRPM L1;
 TRPML1; mucolipidin; mucolipidosis type IV protein; MG-2; TRP-ML1; TRPM-L1;

Gene ID [57192](#)

mRNA Refseq [NM_020533](#)

Protein Refseq [NP_065394](#)

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MIM	605248
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UniProt ID	Q9GZU1
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