Recombinant Full Length Human LRTOMT Protein, GST-tagged

Cat. No. LRTOMT-6113HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human LRTOMT full-length ORF (BAG35968.1, 1 a.a. - 192 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	192 amino acids
Description	This gene includes two transcript forms. The short form has one open reading frame (ORF), which encodes the leucine-rich repeats (LRR)-containing protein of unknown function. This protein is called LRTOMT1 or LRRC51. The long form has two alternative ORFs; the upstream ORF has the same translation start codon as used in the short form and the resulting transcript is a candidate for nonsense-mediated decay, and the downstream ORF encodes a different protein, which is a transmembrane catechol-O-methyltransferase and is called LRTOMT2, TOMT or COMT2. The COMT2 is essential for auditory and vestibular function. Defects in the COMT2 can cause nonsyndromic deafness. Alternatively spliced transcript variants from each transcript form have been found for this gene. [provided by RefSeq, Sep 2012]
Molecular Mass	47.52 kDa
AA Sequence	MNKRDYMNTSVREPPLDYSFRSIHVIQDLVNEEPRTGLRPLKRSKSGKSLTQSLWL

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	NNNVLNDLRDFNQVASQLLEHPENLAWIDLSFNDLTSIDPVLTTFFNLSVLYLHGNSI QRLGEVNKLAVLPRLRSLTLHGNPMEEEKGYRQYVLCTLSRITTFDFSGVTKADRTT AEVWKRMNIKPKKAWTKQNTL
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	LRTOMT leucine rich transmembrane and 0-methyltransferase domain containing [Homo sapiens]
Official Symbol	LRTOMT
Synonyms	LRTOMT; leucine rich transmembrane and 0-methyltransferase domain containing; deafness, autosomal recessive 63 , DFNB63, leucine rich repeat containing 51 , LRRC51; leucine-rich repeat-containing protein 51; transmembrane O-methyltransferase; COMT2; transmembrane O-methyltransferase; catechol O-methyltransferase 2; leucine rich repeat containing 51; DFNB63; LRRC51; LRTOMT1; LRTOMT2; FLJ52451;
Gene ID	220074

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mRNA Refseq	NM_001145307
Protein Refseq	NP_001138779
MIM	612414
UniProt ID	Q8WZ04

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