SLC25A15 cDNA Clone – Solute Carrier Family 25 (Mitochondrial Carrier; Ornithine Transporter) Member 15 (Human)

PRODUCT OVERVIEW

Product Name	SLC25A15, cDNA Clone
Full Product Name	SLC25A15 cDNA Clone
Product Gene Name	SLC25A15 cdna clone
Sequence	atgaaatcca atcctgctat ccaggctgcc attgacctca cagcgggggc tgcaggaggt acagcatgtg tactgaccgg gcagcccttt gacacaatga aagtgaagat gcagacgttc cctgacctgt accggggcct caccgactgc tgcctgaaga cttactccca ggtgggcttc cgtggcttct acaagggtac cagtccagca ctaatcgcca acatcgctga gaactcagtc ctcttcatgt gctacggctt ctgccagcag gtggtgcgga aagtggctgg attggacaag caggcaaagc tgagtgatct gcagaatgca gccgccggtt ccttcgcctc tgcctttgct gcactggtgc tctgccccac ggagctcgtg aagtgccggc tgcagaccat gtatgagatg gagacatcag ggaagatagc caagagccag aatacagtgt ggtctgtcat caaaagtatt cttaggaaag atggcccctt ggggttctac catggactct caagcacttt acttcgagaa gtaccaggct atttcttctt cttcggtggc tatgaactga gccggtcctt ttttgcatca gggagatcaa aagatgaatt aggccctgta cctttgatgt taagtggtgg agttggtggg atttgcctct ggcttgcggt atacccagtg gattgtatca aatccagaat tcaagttctt tccatgtctg gaaaacaggc aggatttatc agaacctttt taaatgttgt gaaaaatgaa ggaataacgg ccttatattc tggactgaaa cctactatga ttcgagcatt ccctgccaat ggagcactct ttttggccta cgaatatagc aggaagttga tgatgaacca gttggaagca tactga
Molecular Weight	32,736 Da
OMIM	238970
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SLC25A15 cdna clone	MBS1273850 is a cDNA clone targeting SLC25A15.
Other Notes	Small volumes of SLC25A15 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC25A15. It may not necessarily be applicable to this product.

NCBI GI #	33877040
NCBI GeneID	10166
NCBI Accession #	BC002702
UniProt Secondary Accession #	Q5VZD8; Q9HC45
UniProt Related Accession #	Q9Y619
NCBI Official Full Name	Homo sapiens solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 15, mRNA
NCBI Official Synonym Full Names	solute carrier family 25 member 15
NCBI Official Symbol	SLC25A15
NCBI Official Synonym Symbols	HHH; ORC1; ORNT1; D13S327
UniProt Protein Name	Mitochondrial ornithine transporter 1

UniProt Synonym Protein Names	Solute carrier family 25 member 15
UniProt Gene Name	SLC25A15
UniProt Synonym Gene Names	ORNT1
UniProt Entry Name	ORNT1_HUMAN
NCBI Protein Information	mitochondrial ornithine transporter 1
NCBI Summary for SLC25A15	This gene is a member of the mitochondrial carrier family. The encoded protein transports ornithine across the inner mitochondrial membrane from the cytosol to the mitochondrial matrix. The protein is an essential component of the urea cycle, and functions in ammonium detoxification and biosynthesis of the amino acid arginine. Mutations in this gene result in hyperornithinemia-hyperammonemia-homocitrullinuria (HHH) syndrome. There is a pseudogene of this locus on the Y chromosome.[provided by RefSeq, May 2009]
UniProt Comments for SLC25A15	SLC25A15: Ornithine transport across inner mitochondrial membrane, from the cytoplasm to the matrix. Defects in SLC25A15 are the cause of hyperornithinemia- hyperammonemia-homocitrullinuria syndrome (HHH syndrome). It is an autosomal recessive disorder resulting in various neurologic symptoms, including mental retardation, spastic paraparesis with pyramidal signs, cerebellar ataxia, and episodic disturbance of consciousness or coma caused by hyperammonemia. It causes a functional impairment of the urea cycle. Belongs to the mitochondrial carrier family. Protein type: Membrane protein, integral; Mitochondrial; Membrane protein, multi-pass; Transporter, SLC family; Transporter Chromosomal Location of Human Ortholog: 13q14 Cellular Component: mitochondrial inner membrane Molecular Function: L-ornithine transmembrane transporter activity; structural constituent of ribosome Biological Process: amino acid metabolic process; mitochondrial ornithine transport; translation; urea cycle Disease: Hyperornithinemia-hyperammonemia-homocitrullinuria Syndrome
Research Articles on SLC25A15	**1.** Compares and contrasts all the known human SLC25A* genes and includes functional information.
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