SLC25A27 cDNA Clone – Solute Carrier Family 25, Member 27 (Human)

PRODUCT OVERVIEW

Product Name	SLC25A27, cDNA Clone
Full Product Name	SLC25A27 cDNA Clone
Product Gene Name	SLC25A27 cdna clone
Sequence	atgtccgtcc cggaggagga ggagaggctt ttgccgctga cccagagatg gccccgagcg agcaaattcc tactgtccgg ctgcgcggct accgtggccg agctagcaac ctttcccctg gatctcacaa aaactcgact ccaaatgcaa ggagaagcag ctcttgctcg gttgggagac ggtgcaagag aatctgcccc ctatagggga atggtgcgca cagccctagg gatcattgaa gaggaaggct ttctaaagct ttggcaagga gtgacacccg ccatttacag acacgtagtg tattctggag gtcgaatggt cacatatgaa catctccgag aggttgtgtt tggcaaaagt gaagatgagc attatcccct ttggaaatca gtcattggag ggatgatggc tggtgttatt ggccagtttt tagtcaatcc aactgaccta gtgaaggttc agatgcaaat ggaaggaaaa aggaaactgg aaggaaaacc attgcgattt cgtggtgtac atcatgcatt tgcaaaaatc ttagctgaag gaggaatacg agggctttgg gcaggctggg tacccaatat acaaagagca gcactggtga atatgggaga tttaaccact tatgatacag tgaaacacta cttggtattg aatacaccac ttgaggacaa tatcatgact cacggtttat caagtgatct ggtcggatct cacaaggcca tccaatga
Molecular Weight	27,210 Da
OMIM	613725
Vector	pENTR223.1
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SLC25A27 cdna clone	MBS1271756 is a cDNA clone targeting SLC25A27.
Other Notes	Small volumes of SLC25A27 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 SLC25A27. It may not necessarily be applicable to this product.

NCBI GI #	21620095
NCBI GeneID	9481
NCBI Accession #	BC033091
UniProt Secondary Accession #	Q5VTS9; Q8N518; F5GWR4
UniProt Related Accession #	O95847
NCBI Official Full Name	Homo sapiens solute carrier family 25, member 27, mRNA
NCBI Official Synonym Full Names	solute carrier family 25 member 27
NCBI Official Symbol	SLC25A27
NCBI Official Synonym Symbols	UCP4
UniProt Protein Name	Mitochondrial uncoupling protein 4
UniProt Synonym Protein Names	Solute carrier family 25 member 27
UniProt Gene Name	SLC25A27

UniProt Synonym Gene Names	UCP4; UCP 4
UniProt Entry Name	UCP4_HUMAN
NCBI Protein Information	mitochondrial uncoupling protein 4
NCBI Summary for SLC25A27	Mitochondrial uncoupling proteins (UCP) are members of the larger family of mitochondrial anion carrier proteins (MACP). UCPs separate oxidative phosphorylation from ATP synthesis with energy dissipated as heat, also referred to as the mitochondrial proton leak. UCPs facilitate the transfer of anions from the inner to the outer mitochondrial membrane and the return transfer of protons from the outer to the inner mitochondrial membrane. They also reduce the mitochondrial membrane potential in mammalian cells. Tissue specificity occurs for the different UCPs and the exact methods of how UCPs transfer H+/OH- are not known. UCPs contain the three homologous protein domains of MACPs. Transcripts of this gene are only detected in brain tissue and are specifically modulated by various environmental conditions. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Feb 2011]
UniProt Comments for SLC25A27	SLC25A27: UCP are mitochondrial transporter proteins that create proton leaks across the inner mitochondrial membrane, thus uncoupling oxidative phosphorylation from ATP synthesis. As a result, energy is dissipated in the form of heat. May play a role in thermoregulatory heat production and metabolism in brain. Belongs to the mitochondrial carrier family. Protein type: Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 6p12.3 Cellular Component: mitochondrial inner membrane; mitochondrion Molecular Function: structural constituent of ribosome Biological Process: generation of precursor metabolites and energy; proton transport; translation
Research Articles on SLC25A27	**1.** UCP4 mRNA of cartilage tissues was decreased in osteoarthritis patients, which was negatively correlated with synovial fluid (SF) leptin concentration.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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