

Product datasheet for SC111116

UCP4 (SLC25A27) (NM_004277) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UCP4 (SLC25A27) (NM_004277) Human Untagged Clone
Tag:	Tag Free
Symbol:	UCP4
Synonyms:	UCP4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111116 sequence for NM_004277 edited (data generated by NextGen Sequencing)

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ATGTCCGTCCTCCGGAGGAGGAGGAGGCTTTTGCCGCTGACCCAGAGATGGCCCCGAGCG
AGCAAATTCCTACTGTCCGGCTGCGCGGCTACCGTGGCCGAGCTAGCAACCTTCCCTG
GATCTCACAAAACTCGACTCCAATGCAAGGAGAAGCAGCTCTTGCTCGGTTGGGAGAC
GGTGCAAGAGAATCTGCCCTATAGGGGAATGGTGCGCACAGCCCTAGGGATCATTGAA
GAGGAAGGCTTTCTAAAGCTTTGGCAAGGAGTGACACCCGCCATTTACAGACACGTAGTG
TATTCTGGAGGTCGAATGGTCACATATGAACATCTCCGAGAGGTTGTGTTTGGCAAAAGT
GAAGATGAGCATTATCCCCTTTGAAAATCAGTCATTGGAGGGATGATGGCTGGTGTATT
GGCCAGTTTTTAGCCAATCCAACCTGACCTAGTGAAGGTTTCAGATGCAAAATGGAAGGAAA
AGGAAACTGGAAGGAAAACCATTTGCGATTTCTGGTGTACATCATGCATTTGCAAAAATC
TTAGCTGAAGGAGGAATACGAGGCTTTGGCAGGCTGGGTACCCAATATACAAAGAGCA
GCACTGGTGAATATGGGAGATTTAACCCTTATGATACAGTGAAACACTACTTGGTATTG
AATACACCACTTGAGGACAATATCATGACTCACGGTTTATCAAGTTTATGTTCTGGACTG
GTAGCTTCTATTCTGGGAACACCAGCCGATGTCATCAAAAGCAGAATAATGAATCAACCA
CGAGATAAACAAGGAAGGGGACTTTTGTATAAATCATCGACTGACTGCTTGATTCAGGCT
GTTCAAGGTGAAGGATTCATGAGTCTATATAAAGGCTTTTACCATCTTGGCTGAGAATG
ACCCCTTGGTCAATGGTGTCTGGCTTACTTATGAAAAATCAGAGAGATGAGTGGAGTC
AGTCCATTTTAA

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Clone variation with respect to NM_004277.4
225 t=>c



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004277 unedited TGTCCAGATTTTGAATACGACTTACTTATAGGGCGGCCGCGATTTCGGCACGAGGGGCAG CTGGACCACTCCAGCTGGGACTGCTAGGAAGGTTGCGGGTCCACCCGGCCGAGCCGAACG AGGGAAATGGTCTCACCCGGCCACTCGCCGTTGAAAAGGGGCCGCCCTGGCAGGGAAG CGGCCCGCGGGCGGGTGCAGCGCAGCGGCGAGAAGGAGTGCATTATCGTCTTGCCTA CTGCTGAATGTCCGTCCCGGAGGAGGAGAGGCTTTTGCCGCTGACCCAGAGATGGCC CCGAGCGAGCAAATTCCTACTGTCCGGCTGCGCGCTACCGTGGCCGAGCTAGCAACCTT TCCCTGGATCTCACAAAACCTCGACTCAAATGCAAGGAGAAGCAGCTTTGCTCGGTT GGGAGACGGTGCAGAGAATCTGCCCTATAGGGGAATGGTGGCACAGCCCTAGGGAT CATTGAAGAGGAAGGCTTTCTAAAGCTTTGGCAAGGAGTGACACCCGCCATTTACAGACA CGTAGTGTATTCTGGAGGTGCAATGGTCACATATGAACATCTCCGAGAGGTTGTGTTTGG CAAAAGTGAAGATGAGCATTATCCCTTTGAAATCAGTCATTGGAGGGATGATGGCTGG TGTTATTGGCCAGTTTTAGCCAATCCAACCTGACCTAGTGAAGGTTTCAGATGCCAATGGA AGGAAAAAGGAACTGGNANGNAAACCATTGCGANTTCGTGGTGTACATCATGCATTTGC AAAAATCTTANNCTGAAGANGAATACNANGNCTTTGGGCANGCTGGGTACCCATATAACC AANACAGCACTGGTGAATATGGGAGATTAACCACTTATGATACAGTGAACACTACTTGG TATTGNATACACCACTTGANNACATATCATGACTCACGGNTNATCAAGTTTATG
Restriction Sites:	NotI-NotI
ACCN:	NM_004277
Insert Size:	2500 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_004277.2 , NP_004268.2
RefSeq Size:	2006 bp
RefSeq ORF:	405 bp
Locus ID:	9481
UniProt ID:	O95847
Cytogenetics:	6p12.3
Domains:	mito_carr
Protein Families:	Druggable Genome

Gene Summary:

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]

Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.