

Product datasheet for **SC204466**

UCP2 (NM_003355) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	UCP2 (NM_003355) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	UCP2
Synonyms:	BMIQ4; SLC25A8; UCPH
ACCN:	NM_003355
Insert Size:	365 bp
Insert Sequence:	>SC204466 3'UTR clone of NM_003355

The sequence shown below is from the reference sequence of NM_003355. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GCCTGCACTTCCCGAGAGGCTCCCTTCTGAGCCTCTCCTGCTGCTGACCTGATCACCTCTGGCTTTGTC
TCTAGCCGGGCCATGCTTTCCTTTCTTCTTTCTTCTTCTTCCCTCCTTCCCTTCTCCTTCCCTCTT
TCCCCACCTTCTTCCGCTCCTTTACCTACCACCTTCCCTTCTTCTACATTCTCATCTACTCATTGT
CTCAGTGTGGTGGAGTTGACATTTGACAGTGTGGGAGGCTCGTACCAGCCAGGATCCCAAGCGTCCC
GTCCCTTGGAAAGTTCAGCCAGAATCTTCGTCCTGCCCCGACAGCCAGCCTAGCCCACTTGTCATCC
ATAAAGCAAGCTCAACCTTG
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```

Restriction Sites:	Sgfl-Mlul
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_003355.3</u>



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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. This gene is expressed in many tissues, with the greatest expression in skeletal muscle. It is thought to play a role in nonshivering thermogenesis, obesity and diabetes. Chromosomal order is 5'-UCP3-UCP2-3'. [provided by RefSeq, Jul 2008]

Locus ID:

7351

MW:

12.9