

Product datasheet for **MR225745**

Ucp3 (NM_009464) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ucp3 (NM_009464) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ucp3
Synonyms:	A1645527; Slc25a9; UCP-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225745 representing NM_009464 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGGACTTCAGCCCTCCGAAGTGCCTCCACAACGGTTGTGAAGTTCCTGGGGCCGGCACTGCGG
CCTGTTTTGCGGACCTCCTCACTTTTCCCCTGGACACCGCCAAGGTCCGCTGCAGATCCAAGGGGAGAA
CCCAGGGGCTCAGAGCGTGCAGTACCGCGGTGTGCTGGTACCATCCTGACTATGGTGCACAGAGGGT
CCCCGAGCCCTACAGCGGACTGGTCGCTGGCCTGCACCGCCAGATGAGTTTTGCCTCCATTGCAATTG
GCCTCTACGACTCTGTCAAGCAGTTCTACACCCCAAGGGAGCGGACCACTCCAGCGTCGCCATCAGGAT
TCTGGCAGGCTGCACGACAGGAGCCATGGCAGTGACCTGCGCCCAGCCACGGATGTGGTGAAGTCCGA
TTTCAAGCCATGATACGCTGGAACTGGAGGAGAGAGAAATACAGAGGACTATGGATGCCTACAGAA
CCATCGCCAGGGAGGAAGGAGTCAGGGGCTGTGGAAAGGGACTTGGCCCAACATCACAAGAAATGCCAT
TGTCAACTGTGCTGAGATGGTGACCTACGACATCATCAAGGAGAAGTTGCTGGAGTCTCACCTGTTACT
GACAACTCCCCTGTCACTTTGTCTCTGCCTTTGGAGCTGGCTTCTGTGCCACAGTGGTGGCCTCCCCGG
TGGATGTGGTAAAGACCCGATACATGAACGCTCCCCTAGGCAGGTACCGCAGCCCTCTGCACTGTATGCT
GAAGATGGTGGCTCAGGAGGGACCCACGGCCTTCTACAAAGGATTTGTGCCCTCCTTTCTGCGTCTGGGA
GCTTGGAAACGTGATGATGTTGTAACATATGAGCAACTGAAGAGGGCCTTAATGAAAGTCCAGGTACTGC
GGGAATCTCCGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225745 representing NM_009464
Red=Cloning site Green=Tags(s)

MVGLQPSEVPPTTVVKFLGAGTAACFADLLTFPLDTAKVRLQIQGENPGAQSVQYRGVLTILTMV RTEG
 PRSPYSGLVAGLHRQMSFASIRIGLYDSVKQFYTPKGADHSSVAIRILAGCTTGAMAVTCAQPTD VVKVR
 FQAMIRLGTGGERKYRGTM DAYRTIAREEGVRLWKGTWPNI TRNAIVNCAEMVTYDI I KEKLL ESHLFT
 DNFPCHFVSAFGAGFCATVVASPV DVVKTRYMNAPLGRYRSPLHCMLKMVAQEGPTAFYKGFVPSFLRLG
 A WNVMMFVTYEQLKRALMKVQVLR ES PF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9034_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009464

ORF Size: 924 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_009464.3](#), [NP_033490.1](#)

RefSeq Size: 2448 bp

RefSeq ORF: 927 bp

Locus ID: 22229

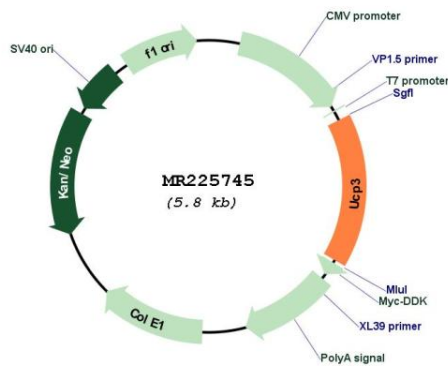
UniProt ID: [P56501](#)

Cytogenetics: 7 54.36 cM

MW: 34.4 kDa

Gene Summary: UCP are mitochondrial transporter proteins that create proton leaks across the inner mitochondrial membrane, thus uncoupling oxidative phosphorylation. As a result, energy is dissipated in the form of heat. May play a role in the modulation of tissue respiratory control. Participates in thermogenesis and energy balance (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225745