

## Product datasheet for **MG225745**

### Ucp3 (NM\_009464) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ucp3 (NM\_009464) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ucp3  
**Synonyms:** A1645527; Slc25a9; UCP-3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG225745 representing NM\_009464  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTTGGACTTCAGCCCTCCGAAGTGCCTCCCACAACGGTTGTGAAGTTCCTGGGGCCGGCACTGCGG  
CCTGTTTTGCGGACCTCCTCACTTTTCCCCTGGACACCGCCAAGGTCCGCTGCAGATCCAAGGGGAGAA  
CCCAGGGGCTCAGAGCGTGCAGTACCGCGGTGTGCTGGTACCATCCTGACTATGGTGCACAGAGGGT  
CCCCGAGCCCTACAGCGGACTGGTCGCTGGCCTGCACCGCCAGATGAGTTTTGCCTCCATTGGAATTG  
GCCTCTACGACTCTGTCAAGCAGTTCTACACCCCAAGGGAGCGGACCACTCCAGCGTCGCCATCAGGAT  
TCTGGCAGGCTGCACGACAGGAGCCATGGCAGTGACCTGCGCCACGCCAGCGATGGTGAAGTCCGA  
TTTCAAGCCATGATACGCTGGAACTGGAGGAGAGGAAATACAGAGGACTATGGATGCCTACAGAA  
CCATCGCCAGGGAGGAAGGAGTCAGGGCCTGTGGAAAGGGACTTGGCCCAACATCACAAGAAATGCCAT  
TGTCAACTGTGCTGAGATGGTGACCTACGACATCATCAAGGAGAAGTTGCTGGAGTCTCACCTGTTACT  
GACAACTCCCCTGTCACTTTGTCTCTGCCTTTGGAGCTGGCTTCTGTGCCACAGTGGTGGCCTCCCCGG  
TGGATGGTAAAGACCCGATACATGAACGCTCCCCTAGGCAGGTACCGCAGCCCTCTGCACTGTATGCT  
GAAGATGGTGGCTCAGGAGGGACCCACGGCCTTCTACAAAGGATTTGTGCCCTCCTTTCTGCGTCTGGGA  
GCTTGGAAACGTGATGATGTTGTAACATATGAGCAACTGAAGAGGGCCTTAATGAAAGTCCAGGTACTGC  
GGAAATCTCCGTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225745 representing NM\_009464  
 Red=Cloning site Green=Tags(s)

MVGLQPSEVPPTTVVKFLGAGTAACFADLLTFPLDTAKVRLQIQGENPGAQSVQYRGVLGILTMRTEG  
 PRSPYSGLVAGLHRQMSFASIRIGLYDSVKQFYTPKGADHSSVAIRILAGCTTGAMAVTCAQPTDVVKVR  
 FQAMIRLGTGGERKYRGTMDAYRTIAREEGVRGLWKGTPNITRNAIVNCAEMVTYDIIKEKLLESHLFT  
 DNFPCHFVSAFGAGFCATVVASPDVVKTRYMNAPLGRYRSPLHCMLKMQVAQEGPTAFYKGFVPSFLRLG  
 AWWMMFVTYEQLKRALMKVQLRESPF

TRTRPLE - GFP Tag - V

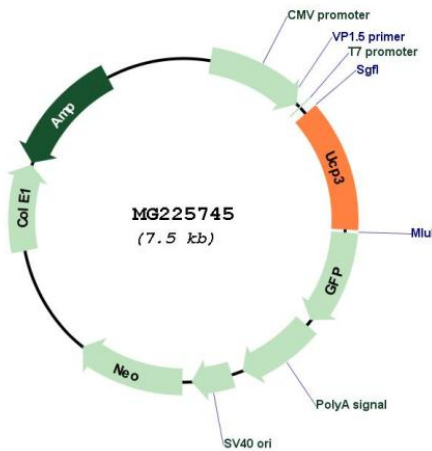
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_009464

ORF Size: 924 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009464.3</a> , <a href="#">NP_033490.1</a>
<b>RefSeq Size:</b>	2448 bp
<b>RefSeq ORF:</b>	927 bp
<b>Locus ID:</b>	22229
<b>UniProt ID:</b>	<a href="#">P56501</a>
<b>Cytogenetics:</b>	7 54.36 cM
<b>Gene Summary:</b>	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]