

Product datasheet for **MC220096**

Slc22a16 (NM_027572) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a16 (NM_027572) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc22a16
Synonyms:	4921504E14Rik; CT2; FLIPT2; OCT6; OKB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220096 representing NM_027572
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTCTGCAACGTGGAGCTGATTTTTGACCACATAGGACACTTCGGCAGGTTCCAGATAGTCTGT
 ATCTGATATGTGCTACCAGAGCCTCTCTTGTGGTATCCACTATCTGTCTTCTGTGTTCCGTCAATTAT
 CCCTGAGCATGCGTGCAAGCCCCAGGCATGGTGCAGGAGGCTGTTTTCCACAACGTATCTGCTTGAGG
 TTGGAGGACATATTGGCTCTGCGGTACCAGAGCACAAAGATCACATCATGGTGGAGCTGCAGGATGGG
 AGATCTGGGAACACGAGATGTAGCAGGACTTGGAGGGAGAACACGTACATTTGGGCTATGAGTACAG
 TGGTTATAAGCATGACAGTCCTTGTCTCGATGGTACGTCTATGATCAGAGCAAATGGAGGAATTCTGCC
 GTGAGAAATTTCAACCTGGTCTGTGATCAGAAATGGTATGCAAGAATGATCCAGCCCTTGATTATATTTG
 GCGTGATGCTGGGATCAATTACTTTAGCTACCTTTCTGACAGATTTGGAAGCGAATGGCCCTGTGGT
 CACGAGCATCGGGTGTCTTTTGAATAGCATCCCTTTTATATTTGATTATCTCAGCTTCATGATC
 ACACGCTTTTTTCCCTGTGATGGCCTCGAGTGGCTATTTTGTGGTGGTCTTTGTCTATGTAATGGAGATCA
 TTGGCAAAAAGGCTCGCACATGGGCATCCATACATCTCAATACCTTCTTTGCTATTGGAGCAATGTTGGT
 GGCTTTGGCAAGCTATTTGTTGAAAACGTGGTGGCTCTATCAGATCATCTGTGCATCGTACTACCCCC
 TTCATCTGTGCTGTTGGATGCTCCAGAGACTCCCTTTTGGCTCCTCTCAGAAGGAAGTACAAGGAAG
 CACAAGGCACCGTGGACACCATGGCTGTGTGGAATAAGTCCAGCTCCTGTGACCTGGTAGAGCTCTTATC
 ACTAGATGTGACGAGTCCCACAATAAAAGCCCCACAGCATTAGGAAGCACAGGCTAGCAGATCTGTTT
 CATAACCTGGATGTCGAAAGATGACCCCTATCGTTTGGCTGGATTGGTTCACGGCGAATTTGGGATACT
 ACATGTTTGGCAAGGAGTTATTTCGGAGAAAAGAAAATGAACCCCTTACCTCCTCTAGTGGGTGCTAT
 GGAAATCCCTGCCTACATCTGTCTGTGCATCTGGTTGAAGAGGGTGGGAAGAAAGAAAGACTATGCTCCTC
 TTCTCTTGGTGTCTCGCTCACCTGTATGCTGCATGTGGTATGCCCTCGGATTACAAGACTGCGAAAA
 GGATGGTAGCTTTACTTGTCAAGAGTGTATAAGTTCGGTATTTGCCTTTATTTATCTTTATACGGCGGA
 GCTGTATCCAACAACCGTAAGGTGCTTGGCTGTAGGGAGCAGCAACATGGTGTCCACGTGTCGAGCATC
 TTCATCCATTACCAGTCACTTCTCAAAGTCTGGATCTTCTGCCGAGATTTTATTTGGGATCTGG
 CCATACTGAGTGGATTGTTGTCATTGAAGCTTCCAGAAACCCAGGACACACCAATGAAATCTACTGGGA
 GACGACTGAACAGCAGGTGCCAGAAAACAAGGATAGTTTAGGCGAAGGCCCTCCTGATAGTTTTGAGAGA
 TGGGATCAAGCAGAGCCCTTTCTTTTGTGAGAGGTGGGTTTAAAGCAGAGCTCCTGATGCTGAGA
 AGTGGGGTTCAGGCAGAGTCCCTCCTGATGCTGGGAAGTGGGGTGCAGGCATAGCCCTCCTGTGACTGA
 GAGGGGTGCTTACGGCAGAGCTTCTTTGAAGATGAGAGTGGGGTTTACGGCAGAGCCCTCCTGAAAAG
 AACACTGAGATGGAAAATGAGATAGAAAACATGAAAGTGAGTAACCTGGGGGGATT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_027572
- Insert Size:** 1950 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:

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_027572.1](#), [NP_081848.1](#)

RefSeq Size: 2377 bp

RefSeq ORF: 1950 bp

Locus ID: 70840

UniProt ID: [Q497L8](#)

Cytogenetics: 10 B1

Gene Summary: High affinity carnitine transporter; the uptake is partially sodium-ion dependent. Thought to mediate the L-carnitine secretion mechanism from testis epididymal epithelium into the lumen which is involved in the maturation of spermatozoa. Also transports organic cations such as tetraethylammonium (TEA) and doxorubicin. The uptake of TEA is inhibited by various organic cations. The uptake of doxorubicin is sodium-independent (By similarity).
[UniProtKB/Swiss-Prot Function]