

Product datasheet for **MC218933**

Slc22a5 (NM_011396) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a5 (NM_011396) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc22a5
Synonyms:	jvs; Lstpl; Octn2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC218933 representing NM_011396
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGGACTACGACGAGGTGACCGCCTTCTAGCGAGTGGGGCCCTCCAGCGCCTCATCTTCTTCC
 TGCTCAGCGCCAGCATCATCCCCAATGGCTTCAATGGTATGTCCATCGTGTTCCTGGCGGGACCCCGGA
 GCACCGTTGCCTTGTGCCTCACACCGTGAACCTGAGCAGCGCGTGGCGCAACCACAGTATCCCGTTGGAG
 ACGAAGGACGGACGACAGGTGCCTCAGAAATGCCGCCGCTACCGACTGGCCACCATCGCCAACTTCTCTG
 AGCTAGGGCTGGAGCCGGGGCGGGACGTGGACCTGGAGCAGCTGGAGCAGGAGAGCTGCCTGGATGGCTG
 GGAGTACGACAAGGACGTCTTCTGTCCACCATCGTGACAGAGTGGGACCTGGTGTGAAGGATGACTGG
 AAAGCCCCACTCACACCTCCTTGTCTTTCGTGGGTGTGCTGATGGGCTCCTTCATTTAGGACAGCTCT
 CAGACAGGTTTGGTCGCAAGAATGTGCTGTTTTGACCATGGGCATGCAGACTGGCTTCAGCTTCTGCA
 GGTCTTCTGTGAACCTCGAGATGTTTACAGTCTTTTTGTCCCTGTTGGCATGGGTGAGTCTCCAAC
 TACGTGGCAGCATTTGTCTGGGAACAGAAATCTTTCCAAGTCAATCGAATTATATTCGCCACCTTAG
 GAGTTTGCATATTTATGCGTTTGGCTTCATGGTGTGCTGCCACTGTTTGCATACTTCATCAGAGACTGGAG
 GATGCTGCTGCTGGCGCTCACTGTGCCAGGGTGTATGTGGGGCTCTCTGGTGGTTTCATCCCTGAGTCC
 CCACGATGGCTCATCTCTCAAGGCCGAATTAAGAGGCAGAGGTGATCATCCGCAAAGCTGCCAAAATCA
 ATGGGATTGTTGCACCTTCCACTATCTTCGATCCAAGTGAATACAAGACTTAAATTCTACGAAGCCTCA
 GTTGCACCACATTTATGATCTGATCCGAACACGGAATATCAGGGTTCATCACCATCATGTCTATAATCCTG
 TGGCTGACCATATCAGTGGGCTATTTGGACTATCTCTTGACACTCCTAACTTGCATGGGACATCTATG
 TGAACCTCTTCTACTGGCGGCTGTTGAAGTCCCAGCCTATGTGCTGGCCTGGCTGTTGTTGCAGTACTT
 GCCCCGGCGATATCTATCTCGGCTGCCCTTTTCTGGGTGGCAGTGTCTTCTCTTCATGCAGCTGGTG
 CCTTCAGAATTGTTTACTTGTCCACTGCCCTGGTGTGTTGGGGAAGTTTGAATCACCTCTGCCTACT
 CCATGGTCTATGTGTACACAGCTGAGCTGTACCCCACTGTGGTCAGAAACATGGGTGTGGGGTCAAGCTC
 CACAGCATCCCGCCTTGGCAGCATCCTGTCTCCCTACTTTGTTTACCTAGGTGCCATGATCGTTCCTG
 CCTTATATTCTCATGGGAAGTCTGACCATCCTGACAGCTATCCTCACCTTGTCTTCCCTGAGAGCTTTG
 GTGTCCCTCTCCAGATACCATTGACCAGATGCTAAGGGTCAAAGGAATAAAACAGTGGCAAATCCAAAG
 CCAGACAAGAATGCAAAAAGATGGTGAAGAAAGCCCAACAGTCTAAAGAGCACAGCCTT**C**TAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3471_c06.zip

Restriction Sites: SgfI-MluI

ACCN: NM_011396

Insert Size: 1674 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_011396.3](#), [NP_035526.1](#)

RefSeq Size: 3119 bp

RefSeq ORF: 1674 bp

Locus ID: 20520

UniProt ID: [Q9Z0E8](#)

Cytogenetics: 11 32.02 cM

Gene Summary: Sodium-ion dependent, high affinity carnitine transporter. Involved in the active cellular uptake of carnitine. Transports one sodium ion with one molecule of carnitine. Also transports organic cations such as tetraethylammonium (TEA) without the involvement of sodium. Also relative uptake activity ratio of carnitine to TEA is 11.3.[UniProtKB/Swiss-Prot Function]