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Product datasheet for MC200831

Slc22a1 (NM_009202) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a1 (NM_009202) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc22a1
Synonyms:	Lx1; Oct1; Orct; Orct1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

Fully Sequenced ORF:

>BC021651 sequence for NM_009202
CCACGCGTCCGCGGGGTAAAAGGTTGTTTCTGGTTGGTTGCCTTCCAGATGTATCAGGCTTGAACAGCAA
CTTGATTTCAAGCCACCGCAGTTCCAAGAACTTTAAATGAGACGCTGCACGAACCCCCAGTGGCAGTCCA
GAGCAGGCCTGGCTGAGTTGGTGAGGGCCCTACCCAGCCATGCCCACCGTGGACGATGTCCTGGAGCACG
TTGGAGAGTTTGGCTGGTTCCAGAAGCAAGCCTTCCTGTTGCTATGCCTGATCTCAGCTTCTTTAGCTCC
CATCTACGTGGGCATCGTTTTCCTGGGCTTCACCCCCGACCACCACTGCCGGAGTCCTGGAGTGGCCGAG
CTGAGCCAGCGGTGTGGCTGGAGCCCGGCAGAGGAGCTGAACTACACCGTGCCGGGCCTGGGGTCTGCGG
GTGAGGCCTCCTTCCTCAGCCAATGCATGAAGTATGAGGTGGACTGGAACCAGAGCACCCTTGACTGTGT
GGACCCACTGTCCAGCCTGGCTGCCAACAGGAGCCACTTGCCACTGAGCCCCTGCGAGCATGGCTGGGTG
TACGACACTCCCGGCTCCTCCATCGTCACTGAGTTTAACCTGGTGTGTGGAGACGCCTGGAAAGTGGACC
TTTTTCAGTCCTGTGTGAACTTGGGCTTCTTCCTGGGCTCCCTGGTTGTGGGTTACATTGCAGACAGGTT
TGGCCGTAAGCTCTGCCTCCTGGTGACCACTCTGGTCACCTCCCTGTCTGGCGTGTTAACAGCGGTGGCC
CCAGACTATACATCCATGTTGCTCTTTCGCCTTCTGCAAGGCATGGTCAGCAAAGGCAGCTGGGTGTCTG
GCTACACCTTGATCACAGAGTTTGTCGGCTCTGGCTACAGGAGAACGACAGCCATCTTGTACCAGGTGGC
CTTCACAGTGGGGCTAGTGGGGCTTGCTGGGGTGGCCTATGCCATTCCAGACTGGCGCTGGCTCCAGCTG
GCGGTGTCCCTGCCCACCTTCCTCTTCCTGCTGTATTACTGGTTTGTCCCAGAATCCCCCCGGTGGCTGT
TGTCTCAGAAGAGAACCACTCAAGCGGTAAGGATAATGGAGCAAATTGCACAGAAGAACAGGAAGGTGCC
CCCTGCTGACCTGAAGATGATGTGCCTTGAGGAAGATGCCTCAGAGAGGCGGAGTCCTTCGTTTGCAGAC
CTGTTCCGCACCCCCAGCCTGAGGAAGCACACCCTCATCCTGATGTATCTATGGTTCTCTTGTGCTGTGC
TGTACCAGGGCCTCATCATGCATGTGGGAGCCACAGGGGCCAACCTCTACCTGGACTTCTTTTATTCTTC
TCTAGTGGAATTCCCTGCGGCCTTTATCATCCTTGTCACCATTGACCGCATTGGCCGCATCTACCCAATA
GCGGCATCAAATCTGGTGGCGGGGGCAGCCTGCCTCCTCATGATCTTTATCCCACATGAGCTGCATTGGT
TGAATGTGACCCTCGCTTGTCTTGGCCGTATGGGAGCCACCATTGTGTTGCAGATGGTCTGCCTAGTGAA
CGCTGAGCTGTACCCTACATTCATCAGGAATCTCGGGATGATGGTGTGCTCTGCCCTGTGTGACCTAGGT
GGGATCTTCACCCCCTTCATGGTGTTCAGGCTGATGGAAGTTTGGCAAGCCCTGCCCCTCATTTTGTTTG
GGGTTTTGGGCCTGAGTGCTGGGGCTGTGACCCTTCTACTTCCGGAGACCAAGGGCGTGGCTCTGCCTGA
GACTATTGAAGAAGCGGAGAACCTGGGAAGGAGGAAATCAAAGGCCAAAGAAAACACGATTTACCTTCAG
GTCCAAACAGGCAAATCCCCACATACCTGACAGGGATGCCGTGTCAGGAGCTGAGTGGAGAGAGGAAGGA
GGACTGGCCACTTGGAAGATTCCTAGAAGCCTTTGCCTTCCCAGACACTTCTATATATTCACCAGGTTCC
AAATGAATTCCCAACCTTAAAGACTTTTCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA A

Restriction Sites: RsrII-NotI

ACCN: NM_009202

Insert Size: 1671 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:	BC021651, AAH21651
RefSeq Size:	2031 bp
RefSeq ORF:	1671 bp
Locus ID:	20517
UniProt ID:	O08966
Cytogenetics:	17 8.63 cM
Gene Summary:	Translocates a broad array of organic cations with various structures and molecular weights including the model compounds 1-methyl-4-phenylpyridinium (MPP), tetraethylammonium (TEA), N-1-methylnicotinamide (NMN), 4-(4-(dimethylamino)styryl)-N-methylpyridinium (ASP), the endogenous compounds choline, guanidine, histamine, epinephrine, adrenaline, noradrenaline and dopamine, and the drugs quinine, and metformin. The transport of organic cations is inhibited by a broad array of compounds like tetramethylammonium (TMA), cocaine, lidocaine, NMDA receptor antagonists, atropine, prazosin, cimetidine, TEA and NMN, guanidine, cimetidine, choline, procainamide, quinine, tetrabutylammonium, and tetrapentylammonium. Translocates organic cations in an electrogenic and pH-independent manner. Translocates organic cations across the plasma membrane in both directions. Transports the polyamines spermine and spermidine. Transports pramipexole across the basolateral membrane of the proximal tubular epithelial cells. The choline transport is activated by MMTS. Regulated by various intracellular signaling pathways including inhibition by protein kinase A activation, and endogenously activation by the calmodulin complex, the calmodulin-dependent kinase II and LCK tyrosine kinase.[UniProtKB/Swiss-Prot Function]