

Product datasheet for **MR208770**

Slc22a2 (NM_013667) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a2 (NM_013667) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc22a2
Synonyms:	Oct2; Orct2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208770 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCCGACCGTGGATGATATTCTAGAACATATAGGGGAATTCACCTTTCCAGAAACAAACATTTTCC
 TCTTAGCTCTGCTCTCCGGTGCCTCACCCCATCTATGTGGGCATCGTTTTCTGGGCTTCACCCCAA
 CCACCACTGCCGGAGTCCTGGAGTGGCCGAGCTGAGCCAGCGGTGTGGCTGGAGCCAGCAGAGGAGCTG
 AACTACACCGTGCCGGGCTGGGGTCTGCGGGTGGAGTCTCCTTCTCAGCCAGTGCATGAGGTATGAGG
 TGGACTGGAACAGAGCACCCCTGACTGTGTGGACCCACTGTCCAGCCTGGCTGCCAACAGGAGCCACTT
 GCCACTGAGCCCCGCGAGCATGGCTGGGTGTACGACACTCCCGCTCCTCCATCGTCACTGAGTTAAAC
 CTAGTGTGTGCTCACTCCTGGATGCTGGACCTGTTTCAGTCATTAGTGACGTGGGGTTTTTCATCGGTG
 CTGTGGGCATTGGTTACCTAGCAGACAGGTTTGGCGGAAAGTTCTGCCTTTGGTACCATCCTCATCAA
 TGCTATCTCTGGGTTTCATGGCGATTCACCCAATATGCCTGGATGTTGGTGTTCGATTTCTACAG
 GGAAGTGGTCAAGAACGGCGCTGGTAAATTGGCTATATCCTGATTACAGAATTTGTTGGGCTGGGCTATC
 GCAGAACAGTAGGGATTTGTTACCAAATCGCCTTACTGTTGGGCTCCTGATCCTGGCTGGAGTGGCCTA
 TGCCCTTCCCACTGGAGGTGGCTGCAATTTGCCGTGACTCTGCCCAACTTCTGCTTCTGCTCTATTTT
 TGGTGCATACCGGAGTCTCCAAGATGGTTGATCTCCAGAACAAAAATGCAAAAGCCATGAAATCATTAA
 AGCATATTGCTAAGAAAAATGAAAAATCGGTGCCAGTCTCTTTCAGAGCCTGACGGCAGATGAGGATAC
 TGGCATGAAATGAACCCCTCGTTCCTGGACTTGGTCAAGCCCTCAGATAAGGAAACATACGTTGATC
 TTGATGTACAATTGGTTCACGAGCTCTGTTCTCTACCAGGGCCTCATCATGCACATGGGCTCGCAGGGG
 ACAACATCACTTGGATTTCTTCTACTCTGCCCTGGTGGAAATCCAGCTGCCTCATCATCATTCTCAG
 CATAGACCGGATTGGTCGCGCTATCCCTGGGCTGTGTCAAATATGGTGGCAGGACAGCCTGCCTAGCT
 TCGGTTTTTATCCCTGATGATCTACAGTGGCTGAAAATACCGTGGCGTCTGGGTAGAATGGGCATCA
 CCATAGCCTACGAAATGGTCTGCCTGGTCAACGCTGAGCTGTACCCACATACATCAGGAATCTTGTCTG
 CCTTGTCTGCTCCTATGTGTGACATTGGTGGCATCGTCACACCTTTCCTGGTCTACCCTCACTGAC
 ATCTGGCTGGAGTCCCGCTGGTCTGATTTGCTGTGGTGGCCTTGTGCTGGGGACTTGTGCTATTGC
 TACCTGAGACCAAGGGAAGGCTCTGCCTGAGACCATCGAGGATGCTGAGAAGATGCAGAGGCCAAGAAA
 AAAGAAAGAAAAGAGAATTTACCTCCAAGTTAAGAAAGCAGAATAAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208770 protein sequence
 Red=Cloning site Green=Tags(s)

MPTVDDILEHIGEFHLFQKQTFLLALLSGAFTPIYVGI VFLGFTPNHHRSPGVAELSQRGWSPAEEL
 NYTVPGLGSAGEVSFLSQCMRYEVDWNQSTLDCVDPLSSLAANRSHLPLSPCEHGWWYDTPGSSIVTEFN
 LVCAHSWMLDLFQSLVNVGFFIGAVGIGYLADRFGRKFLLVTLILINAIISGVLMAISPNYAWMLVFRFLQ
 GLVSKAGWLIIGYILITEFVGLGYRRTVGICYQIAFTVGLLILAGVAYALPNRWLQFAVTLPNFCFLLYF
 WCIPESPRWLISQNKNAKAMKIIKHIKKNKGSVPVSLQSLTADEDTGKMLNPSFLDLVRTPQIRKHTLI
 LMYNWF TSSVLYQGLIMHMGLAGDNIYLDFFYSALVEFPAAFI IILTIDRIGRRYPWAVSNMVAGAACLA
 SVFIPDDLQWLKITVAACLGRMGITIAEMVCLVNAELPYTYIRNLAVLVCSSMCDIGGIVTFFLVYRLTD
 IWLEFPLVVFVAVVGLVAGGLVLLL PETKGKALPETIEDAEKMQRPRKKKEKRIYLQYKKAELS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

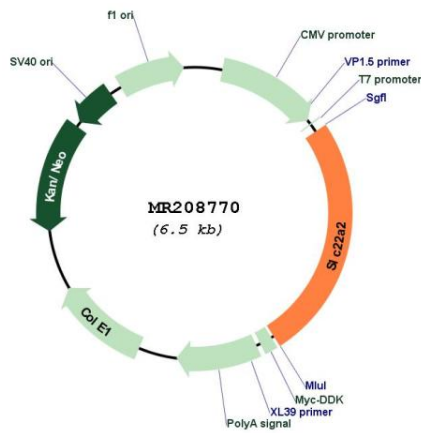
Sgfl-MluI

Cytogenetics: 17 8.61 cM

MW: 61.8 kDa

Gene Summary: Mediates tubular uptake of organic compounds from circulation. Mediates the influx of agmatine, dopamine, noradrenaline (norepinephrine), serotonin, choline, famotidine, ranitidine, histamine, creatinine, amantadine, memantine, acriflavine, 4-[4-(dimethylamino)-styryl]-N-methylpyridinium ASP, amiloride, metformin, N-1-methylnicotinamide (NMN), tetraethylammonium (TEA), 1-methyl-4-phenylpyridinium (MPP), cimetidine, cisplatin and oxaliplatin. Cisplatin may develop a nephrotoxic action. Transport of creatinine is inhibited by fluoroquinolones such as DX-619 and LVFX. This transporter is a major determinant of the anticancer activity of oxaliplatin and may contribute to antitumor specificity (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208770