

Product datasheet for **RR203470**

Slc38a5 (NM_138854) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc38a5 (NM_138854) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc38a5
Synonyms:	SN2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR203470 representing NM_138854
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAATGCAGGAACCAAGATGAACGGAACCTCTCTACGGGTGCTGCTGCGGGCTACAGACAGGAAC
 GCGAAGGCTTCTGCCACCACCCATGGCCTGCTCCAGGGAGGAAACCTGTCCAATTCCTGGATTCGA
 GGGGAAGACATCATTGGAATGTCAAGTGTCAACCTTAGCAATGCCATCATGGGGAGTGGCATCCTGGGG
 CTCGCCTACGCCATGGCCACACTGGAGTCATCTTCTTCTGGCCCTCTTGCTGTGCATTGCCCTCTGT
 CTTCTTACTCTATCCACCTCCTGCTGACCTGCGCCAGTGTGTAGGAATCCGCGCCTATGAGCAGCTGGG
 ACAGAGGGCATTGGACCTGCCGGAAAGTAGTGGTGGCCATTATCATCTGTCTGCACAATGTTGGCGCT
 ATGTCCAGTTACCTGTTTCATCATCAAATCTGAACCTGCCCTGGTTATTGGCACCTTCTGCACATGGACC
 CTGAGGGGGACTGGTTCTTGAAGGGAAACCTCCTCATCATCCTGGTTAGCTTGTTAATCATCTTGCCTCT
 GGCTCTCATGAAACATCTGGGCTACTTGGGGTATACAAGCAGCCTCTCTGACCTGCATGCTGTTTTTC
 CTATTTCAGTCATCTATAAGAAGTCCAGCTTGGCTGTGTTGTGAGCCACAATGACACAGTAGTGGAGA
 GTGAACAGCTCCCTTGAGCGCTTAAATAGCAGCTGTGAGGCCAAGCTCTTACAGTTGACTCACAGAT
 GTCTTACACAGTGCTATTATGGCTTTTGCCTTTGTCTGCCACCCTGAGGTGCTGCCATTTACACGGAA
 CTTTGTGCTGCCCTACTCAGCGCAGGATGCAAGCTGTGGCCAACATGTCCATCGGGGCTATGTTTCATCATGT
 ACGGACTCACAGTACCTTTGGATACCTTACCTTCTACAGCACTGTGAAGGCAGAGATGCTGGAGATGTA
 CACCCAGGAGGACCTGCTATTCTTTGTGTGCGCCTGGCCGACTGCTTGCAAGTAAACCTCACTGTGCCT
 GTTGTCTTTTCCCTATCCGCCAGCCCTCCAGCAGCTGCTCTTCCCAAGTAAGGCCTTCCAGTGGCCAC
 GACATGTGGCAATTGCCCTGATTCTGCTTAATTTGGTCAATATCCTTGTCAATTTGTGTTGTTGTTGTTG
 GGATATCTTTGGGTTTATTGGCTCCACTTACGCCCTAGCCTCATCTTCCCTTCCAGTGTCTTCTAC
 CTTCCGATTGTACCTGCTGACATGGAACCTTGTCTTCTGGCCCAAGATCCAGGCCCTGTGTTTTGGCG
 TCCTGGGAGTCTCTTTCATGGCCATCAGCTGGGCTTTATGTTTGCTAATTGGGCTACAGGCCAGAGCCG
 TATGTCTGGCCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203470 representing NM_138854
 Red=Cloning site Green=Tags(s)

MEMQEPKMNGTLSTGAAAGYRQEREGFLPTTHGPAPGRKPVQFLDFEGKTSFGMSVFNLNAIMSGSILG
 LAYAMAHTGVIFLALLLCIALLLSSYSIHLLLTCAASVVGIRAYEQLGQRAFGPAGKVVVAIIICLHNVGA
 MSSYLFIKSELPLVIGTFLHMDPEGDWFLKGNLLIILVSLLIILPLALMKHLGYLGYTSSLTCLMFF
 LISVIYKFKLGCVVSHNDTVVESEPAPLQAFNSSCEAKLFTVDSQMSYTVPIMAFAFVCHPEVLPITYE
 LCCPTQRRMQAVANMSIGAMFIMYGLTATFGYLYFYSTVKAEMLEMYTQEDLLILCVRLAVLLAVTLTVP
 VVLFPIRRALQQLLFPKAFSWPRHVAIALILLNLVNILVICVPTIRDIFGFIGSTAPSLSIFILPSVFI
 LRIVPADMEPLFSWPKIQALCFGLVLFMAISLGFMANWATGQSRMSGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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_138854.1](#), [NP_620209.1](#)

RefSeq Size: 1891 bp

RefSeq ORF: 1416 bp

Locus ID: 192208

UniProt ID: [A2VCW5](#)

Cytogenetics: Xq12

MW: 51.7 kDa

Gene Summary: Functions as a sodium-dependent amino acid transporter which countertransport protons. Mediates the saturable, pH-sensitive, and electrogenic cotransport of several neutral amino acids including glycine, asparagine, alanine, serine, glutamine and histidine with sodium. [UniProtKB/Swiss-Prot Function]