

## Product datasheet for **RN203470**

### Slc38a5 (NM\_138854) Rat Untagged Clone

#### Product data:

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



[View online »](#)

**Fully Sequenced ORF:** >RN203470 representing NM\_138854  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAAATGCAGGAACCAAGATGAACGGAACCCTCTCTACGGGTGCTGCTGCGGGCTACAGACAGGAAC  
GCGAAGGCTTCCTGCCACCACCCATGGCCCTGCTCCAGGGAGGAAACCTGTCCAATCTTGATTTTGA  
GGGAAGACATCATTGGAATGTCAAGTGTCAACCTTAGCAATGCCATCATGGGGAGTGGCATCCTGGGG  
CTCGCCTACGCCATGGCCACACTGGAGTCATCTTCTTCTGGCCCTCTTGCTGTGCATTGCCCTCTGT  
CTTCTTACTCTATCCACCTCCTGCTGACCTGCGCCAGTGTGTAGGAATCCGCGCCTATGAGCAGCTGGG  
ACAGAGGGCATTGGACCTGCCGGAAAGTAGTGGTGGCCATTATCATCTGTCTGCACAATGTTGGCGCT  
ATGTCCAGTTACCTGTTTCATCATCAAATCTGAACTGCCCTGGTTATTGGCACCTTCTGCACATGGACC  
CTGAGGGGGACTGGTTCTTGAAGGGAAACCTCCTCATCATCCTGGTTAGCTTGTTAATCATCTTGCCTCT  
GGCTCTCATGAAACATCTGGGCTACTTGGGGTATACAAGCAGCCTCTCTGACCTGCATGCTGTTTTTC  
CTATTTCAGTCATCTATAAGAAGTCCAGCTTGGCTGTGTTGTGAGCCACAATGACACAGTAGTGGAGA  
GTGAACAGCTCCCTTGAGGCGTTAATAGCAGCTGTGAGGCCAAGCTCTTACAGTTGACTCACAGAT  
GTCTTACACAGTGCTATTATGGCTTTTGCCTTTGTCTGCCACCCTGAGGTGCTGCCATTTACACGGAA  
CTTTGCTGCCCTACTCAGCGCAGGATGCAAGCTGTGGCCAACATGTCCATCGGGGCTATGTTTCATCATGT  
ACGGACTCACAGTACCTTTGGATACCTTACCTTCTACAGCACTGTGAAGGCAGAGATGCTGGAGATGTA  
CACCCAGGAGGACCTGCTATTCTTTGTGTGCCCTGGCCGACTGCTTGCAAGTAAACCTCACTGTGCCCT  
GTTGTCTTTTCCCTATCCGCCGAGCCCTCCAGCAGCTGCTCTTCCCAAGTAAGGCCTTCAGCTGGCCAC  
GACATGTGGCAATTGCCCTGATTCTGCTTAATTTGGTCAATATCCTTGTCAATTTGTGTCACCAACCTCCG  
GGATATCTTTGGGTTTATTGGCTCCACTCAGCCCTAGCCCTCATCTTCACTTCCAGTGTCTTCTAC  
CTCCGCATTGTACCTGCTGACATGGAACCTTGTCTTCTGGCCCAAGATCCAGGCCCTGTGTTTTGGCG  
TCCTGGGAGTCTCTTTCATGGCCATCAGCTGGGCTTTATGTTTGCTAATTGGGCTACAGGCCAGAGCCG  
TATGTCTGGCCATGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_138854

**Insert Size:** 1416 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\\_138854.1](#), [NP\\_620209.1](#)

RefSeq Size: 1891 bp

RefSeq ORF: 1416 bp

Locus ID: 192208

UniProt ID: [A2VCW5](#)

Cytogenetics: Xq12

**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]