

Product datasheet for **RN213291**

Slc5a5 (NM_052983) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc5a5 (NM_052983) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc5a5
Synonyms:	Nis
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN213291 representing NM_052983
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGGTGCAGGAGCCGGGGCCGGGCCACCTTCGGCGCCTGGGACTACGGCGTGTTCGCGACCATGC
 TGCTGGTGTCCACGGGCATCGGGCTATGGGTGGCCTGGCCCGGTGGCCAACGCAGTGCCGACGACTT
 CTTTACCGGGGGCCGGCAGTTGGCAGCCGTTCTGTGGGCTGTGCTGGCCGCCAGTTTCATGTGGCT
 GTGCAGGTGCTCGGGTCCCGCCGAGGCAGCGCTACGGGCTCAAGTTCCTGTGGATGTGCGCGGGT
 AGTTGCTCAACTCGTGTCTCACAGCCTTCTTCTTGGCGATCTTACCGCCTGGGCCTTACCAGCAC
 CTACCAGTACCTAGAGCTGCGTTCAGCCGAGCGGTCCGGCTCTGCGGGACGCTGCAGTACTTGGTGGC
 ACGATGCTGTATACAGGCATCGTATCTACGCGCCTGCGCTCATCTGAACCAAGTGACCGGGTTGGACA
 TCTGGGCATCGTCTGTCCACAGGAATCATCTGCACCTGTACTACCGTGGGTGGTATGAAGCCGT
 GGTCTGGACAGATGTGTTCCAGTTGTGGTAATGCTCGTGGCTTCTGGGTGATCTGGCCGAGGCGTC
 ATTCTCCTGGGGGTCCCGGAACATGCTCAGCCTCGCTCAGAACCATTCCCGGATCAACCTGATGGACT
 TTGACCCTGATCCTCGGAGCCGGTACACCTTCTGGACTTTCATAGTGGTGGCACACTGGTGTGGCTCTC
 CATGTACGGTGTGAACCAAGCCAGGTACAGCGTATGTGGCCTGCCACACAGAGGGAAAGGCCAAACTG
 GCCCTGCTGTCAACCAGCTGGGCCTTCTCTGATTGTGGCCAGTGCAGCTTGTGTGGCATTGTGATGT
 TCGTCTACTACAAGGACTGTGACCCCTCTCACAGGCCGATCTCAGCCCCGACCAGTACATGCCGCT
 GCTTGTGTGGACATTTTGGAGATCTGCCCGAGTCCCGGGCTTCTCTGGCCTGTGCCTACAGTGGC
 ACCCTCAGCACTGCATCCACCAGCATCAACGCCATGGCAGCTGTGACTGTGAAGACCTCATCAAGCCGA
 GGATGCCTGGCCTGGCACCTCGGAAGTTGGTTTTTCATCTCTAAAGGGCTCTCATTATCTACGGCTCTGC
 CTGCCTACTGTGGCTGCTGTCTCACTGCTGGGAGGTGGTGTCTCCAGGGTTCCTTCACTGTGATG
 GGTGTCTCAGTGGCCTCTACTAGCGCCTTACGCTTGGGATGCTGCTCCAGCCTGCAACACGCCAG
 GCGTTCTCTCCGGTTGGCAGCAGGCTTGGCTGTATCCCTGTGGGTGGCCGTAGGGGCCACACTGTATCC
 CCCTGGAGAGCAGACCATGGGGTGTGCCACCTCGGCTGCAGGCTGCACCAACGATTCCGGTCTCCTG
 GGCCACCTGGAGCCACCAACGCTTCCAACGGGATCCCCAGTTCTGGAATGGACACGGGCCGCCCTGCC
 TCGCTGATACCTTTTACGCCATCTCTATCTATTACGGGGCTCTGGGCAGCTGACCACCATGCTTTG
 CGGTGCTCTCATAGCTACCTTACTGGTCCCACCAAGCGCAGCTCCCTGGGTCCCGGATTGCTGTGGTGG
 GACCTTGCTGACAGACAGCGTCTGTGGCCCCAAAGGAAGACACTGCCACCTGGAGGAGAGCCTGGTGA
 AGGGACCAGGAAGACATCCCTGCTGTGACCAAGAAGCCCCCTGGCCTCAAGCCAGGCGCCGAGACCCACC
 CCTGTATCTGGGGCAGATGTGGAGACCAACT**CTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2129_e06.zip

Restriction Sites: SgfI-MluI

ACCN: NM_052983

Insert Size: 1857 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_052983.2](#), [NP_443215.2](#)

RefSeq Size: 2862 bp

RefSeq ORF: 1857 bp

Locus ID: 114613

UniProt ID: [Q63008](#)

Cytogenetics: 16p14

Gene Summary: catalyzes Na⁺/I⁻ symporter activity; plays a role in iodide transport and thyroid hormone generation [RGD, Feb 2006]