

Product datasheet for **RN214201**

Slc25a38 (NM_001030032) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a38 (NM_001030032) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc25a38
Synonyms:	RGD1311914
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN214201 representing NM_001030032 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGTGAGCGCGGAGCCTCGGAGCCTCTCAGTCGCCCCGGCCGGGCTCGCGTCCCCCGTGATCGAGA
AGGCGCGCTCGGCGCTGCTGCCGTGCGAGGATGTAGAGGACACAGTGGAGACGCTCATGTTACATCCAGT
GATTAAGGCTTTCCTCTGCGGCTCCATCAGCGGAACCTGTTCCACGCTCCTCTCCAGCCTCTGGACCTC
CTCAAAACCCGCCTGCAGACCCTGCAGCCCTCAGACGTAGGGCCAGGCGTGTGGGATGCTGTCTGTGT
TCTTGAAGGTGGTTCGCACAGAACTCTTCTGGGCCTTTGAAAGGGATGTCTCCTTCCATTGTGAGATG
TGTCCTGGCGTTGGAATCTACTTTGGCACCTGTATTCTTCTAAGCAGTATTTCTTGCAGGCCATCCT
CCCACTGCCCTGGAATCGGTATCCTGGGCATGGGATCTCGCTCTGTGGCAGGAGTTTGCATGTCACCCA
TCACAGTGGTCAAGACACGCTATGAGAGTGGGGCTTACAGCTACGAGAGCGTCTATGCAGCCCTGCGGAG
CATCTACTGTAGCGAGGGCAGCCGTGGCCTCTTCAGGGGCTGACAGCAACTCTGCTTCGTGACGCCCC
TTCTCGGGGCTCTACCTGATGTTTTACAGCCAGACCAGGGCCACAGTGTCCATGGCGCAGACGAGCTGG
ATGCTGCTCTGATGCCCCCTGTTAATTTACAGCTGTGGGTATTTGCTGGCATTCTGGCTTCACTGGTGAC
TCAACCTGCAGACGTAATCAAAACCATATGCAGCTCTCCACAGTGAAGTGTGAGTGCATTGGCCAAGTG
GCCACCCTCATTCTCAAGACCATGGGCTGCGTGGCTTCTTTCATGGCAGTGTTCCTCCGGGCCCTCCGTA
GAACTCTGATGGCTGCTATGGCATGGACTGTCTATGAAGAGATGATGGCCAAGATGGGCCCAAGTCTCTG
A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001030032
Insert Size:	981 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:	<u>NM_001030032.1</u> , <u>NP_001025203.1</u>
RefSeq Size:	1686 bp
RefSeq ORF:	981 bp
Locus ID:	301067
UniProt ID:	<u>Q499U1</u>
Cytogenetics:	8q32
Gene Summary:	Mitochondrial glycine transporter that imports glycine into the mitochondrial matrix. Plays an important role in providing glycine for the first enzymatic step in heme biosynthesis, the condensation of glycine with succinyl-CoA to produce 5-aminolevulinate (ALA) in the mitochondrial matrix. Required during erythropoiesis.[UniProtKB/Swiss-Prot Function]