

Product datasheet for **RN207957**

Slc22a5 (NM_019269) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a5 (NM_019269) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc22a5
Synonyms:	CT1; OCTN2; UST2r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN207957 representing NM_019269
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGGGACTACGACGAGGTGACCGCCTTCTGGCGAGTGGGGCCCTCCAGCGCCTCATTTTCTTCC
 TGCTCAGCGCCAGCATCATCCCCAATGGCTTCAATGGTATGTCTATCGTGTTCCTGGCGGGACCCCGGA
 GCACCGTTGCCTTGTGCCTCACACCGTGAACCTTGAAGCAGCGCTGGCGCAACCACAGTATCCCGTTGGAG
 ACGAAGGACGGACGACAGGTGCCTCAGAGCTGCCGCCGCTACCGACTGGCCACCATCGCCAACTTCTCTG
 CGCTGGGGCTGGAGCCGGGACGGGACGTGGACCTGGAGCAGCTGGAGCAAGAGAAGTGCCTGGATGGCTG
 GGAGTACAACAAGGACGTCTTCTGTCCACCATCGTGACAGAGTGGGACCTGGTGTGAAGGATGACTGG
 AAAGCCCCACTCACACCTCCTTGTGTTTTCGTGGGTGTGCTGATGGGCTCCTTCATTTGGGACAGCTCT
 CAGACAGGTTTGGTCGCAAGAATGTGCTGTTTTGACCATGGGCATGCAGACTGGCTTCAGCTTCTGCA
 GCTCTTCTGTGAACCTCGAGATGTTTACAGTCTTTTTGTCCCTGTTGGCATGGGTGAGTCTCCAAC
 TACGTGGCAGCATTTGTCTGGGAACAGAAATCTTTCCAAGTCAATCGAATTATTCGCCACCTTAG
 GAGTTTGCATATTTATGCATTTGGCTTCATGGTGTGCTGCCTCTGTTTGCATACTTCATCAGAGACTGGAG
 GATGCTGCTGCTTGCCTCACTGTACCAGGGGTGCTGTGTGGGGCTCTCTGGTGGTTTCATCCCTGAGTCC
 CCCCAGTGGCTCATCTCTCAAGGCCGAGTTAAAGAGGCAGAGGTGATCATCCGCAAAGCTGCCAAATTCA
 ATGGGATTGTTGGCCTTCCACTATCTTCGATCCCAGTGAGTTACAAGACTTAAATTCGAAGAAGCCTCA
 GTCGCACCACATTTATGATCTGGTCCGAACACGAAATATCAGGATCATCACCATCATGTCCATAATCCTG
 TGGTGTACCATATCAGTGGGCTACTTCGGACTTCTCTTGACACTCCTAACTTGCATGGGACATCTATG
 TGAAGCTTCTTACTGGCAGCTGTTGAAGTCCCGCCTATGTGTTGGCCTGGCTGTTACAGCACCT
 GCCCGCGGTATTCTATCTGCTGCTGCCCTCTTCCCTGGGTGGCAGTGTCTTCTTCATACAGCTGGTG
 CCTTCAGAATTGTTTACTTGTCCACTGCCCTGGTGTGTTGGGCAAGTTTGAATCACCTCTGCCTATT
 CCATGGTCTATGTGTACACGGCCGAGCTGTACCCCACTGTGGTCAGAAACATGGGTGTGGGGTCAAGCTC
 CACAGCATCCCGCCTTGGCAGCATCCTGTCTCCCTACTTTGTCTACCTTGGTGCCTATGATCGTTCCTG
 CCTTATACCTCATGGGAAGTCTGACCATCCTGACAGTATCCTCACCTTGTCTTCCAGAGAGCTTTG
 GTGCCCTCTCCCGACACCATTGACCAGATGCTCAGGGTCAAAGGAATAAAACAATGGCAAATCCAAAG
 CCAAACAAGGACGCAAAAAGATGGTGGAGAAAGCCCAACGGTCTAAAGAGCACAGCCTT**C**TAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_019269
- Insert Size:** 1674 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_019269.1](#), [NP_062142.1](#)

RefSeq Size: 3037 bp

RefSeq ORF: 1674 bp

Locus ID: 29726

UniProt ID: [O70594](#)

Cytogenetics: 10q22

Gene Summary: mediates high-affinity sodium-dependent carnitine transport and sodium-independent organic cation transport [RGD, Feb 2006]