

Product datasheet for **RR209604**

Slc22a3 (NM_019230) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a3 (NM_019230) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc22a3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR209604 representing NM_019230
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCACGTTTCGACCAGGCGCTGAGGAAGGCGGCGAGTTCGGGCGCTCCAGCGGCGCGTGTTCCTGC
 TGCTGTGCTGACGGGTGTACCTTCGCCCTCCTTCGTTGGTGTGGTCTTCCTGGGCAGCCAGCCCGA
 CTAATAATTGGTGTGCGGGCCCCGCGCCACCGCGCTGGCCGAGCGCTGCGCCTGGAGCCCTGAGGAGGAG
 TGGAACTCACCACGCCGGAGCTTACGTCCCAGCTGAGCGCCGTGGCCAAGGCCACTGTACCAGCTACC
 TGCTGGAAGACACCAATACCAGCTCAGAGCTCAGCTGCGACCCACTCGCTGCCTTCCCAACCGCTCCGC
 TCCTCTGGTGCCTGCAGCGGCGACTGGCGCTATGTGGAGACCCACTCCACCATCGTCAGCCAGTTTAC
 CTTGTCTGCGGCAACGCCTGGATGTTGGACCTCACCAAGCCATCTTGAACTTGGCTTCTGGCTGGGG
 CTTTTACCTTGGCTATGCAGCGGACAGATACGGCAGGCTCATCGTTTACTTAATATCCTGTTTCGGCGT
 TGGCATACGGGAGTTGGTGGCGTTTGACCGAATTTTCTGTGTTTGTGATCTTCGGCTTCTGCAA
 GGGGTGTTTGGAAAGGGGCGCTGGATGACTTGTCTTGTGATTGTGACAGAAATAGTTGGTTGAAACAGA
 GGAGGATTGTGGGAATAGTGATCCAGATGTTCTTACCCTCGGAATCATATTCTGCCCGGAATTGCCTA
 CTTACCCCCAGCTGGCAGGGCATCCAGCTAGCCATATCGCTGCCTAGCTTCTCTTCTCTTTATTAC
 TGGGTGGTCCCTGAGTCTCCCGCTGGCTGATCACCCGGAAGCAGGGAGAGAAAGCCTTGCAGATCCTGA
 GCGGTGTGGCTAAGTGCAATGGGAAACCTCTCGTCAAATTACTCAGAGATCACAGTTACAGATGAAGA
 GGTCAGTAACCCATCCTGTTTAGACCTTGTGAGGACTCCCCAAATGAGGAAGTGCACACTATTCTCATG
 TTTGCTTGGTTACAAGTCCCGTGGTGTATCAAGGACTTGTATCGCCCTGGGACTCATCGGAGGCAACC
 TCTACTGGACTTCTTTATCTCGGGGCTCGTGGAGCTGCCCGGAGCTCTTTGATCCTTCTGACCATTTGA
 CGCCTTGGACGACGCTTCCCTTTGCCGCAAGCAATATAGTGGCAGGGGTGTCGTGTCTGGTCACTGCC
 TTTTTACCAGAAGGGATACCGTGGCTGAGGACCACAGTCGCTACCTTGGGAAGACTAGGAATAACCATGG
 CCTTTGAAATTGTTATTTGGTAAATTCAGAGTTGTACCCAACGACATTACGGAACCTTGGGGTTTCACT
 CTGCTCAGGCCTGTGACTTTGGGGGATCATAGCCCCATTTCTGCTTTTCGACTAGCAGCCATATGG
 CTAGAACTGCCTCTGATCATCTTTGGGATCCTGGCATCTGTCTGTGGTGGCCTTGTGATGCTTTGCCTG
 AAATAAGGGCATCGCTTGGCGGAGACGGTGGAAAGATGTGGAAAAGCTTGGCAGTTCACAGTTGCACCA
 GTGTGGCAGAAAAAGAAAACCCAGTTTCTACTTCTAATGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR209604 representing NM_019230
 Red=Cloning site Green=Tags(s)

MPTFDQALRKAGEFGRFQRRVFLLLCLTGVTF AFLFVGVVFLGSQPDYYWCRGPRATALAERCAWSPEEE
 WNLTPPELHVP AERRQGHC HRYLLEDNTSSELSCDPLA AAFPNSAPLVPCSGDWRYVETHSTIVSQFD
 LVCGNWMLDLTQA I LNLGFLAGFTLGYAADRYGRLIVYLISCFGVGITGVVVA FAPNFSVFVIFRFLQ
 GVFGKAWMTCFVIVTEIVGSKQRRIVGIVIQMFFTLGIIILPGIAYFTPSWQGIQLAISLPSFLFLYY
 WVPESPRWLI TRKQGEKALQILRRVAKCNGKHLSSNYSEITVTDEEVSNP SCLDLVRTPQMRKCTLILM
 FAWFTSAVVYQGLVMRLGLIGGNLYMDFI SGLVELPGALLILLTIERLGRRLPFAASNI VAGV SCLVTA
 FLPEGIPWLRRTVATLGRLLGITMAFEIVYLVNSELYPTTLRNFVSLCSGLCDFGGIIAPFLLFRLAAIW
 LELPLIIFGILASVCGGLVMLLPETKGIALPETVEDVEKLGSSQLHQCGRKKKTQVSTSNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

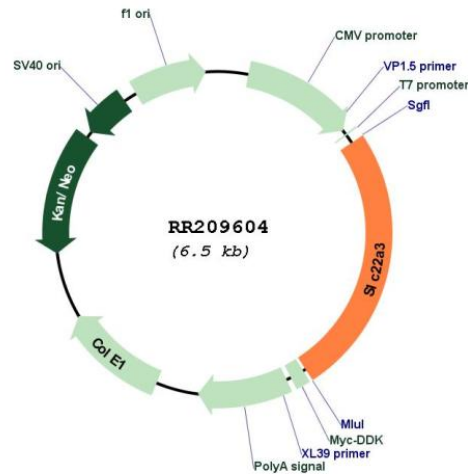
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_019230

ORF Size: 1653 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.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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_019230.1</u> , <u>NP_062103.1</u>
RefSeq Size:	3502 bp
RefSeq ORF:	1656 bp
Locus ID:	29504
UniProt ID:	<u>O88446</u>
Cytogenetics:	1q11
MW:	61 kDa
Gene Summary:	transports a wide range of organic cations including tetraethylammonium, guanidine, and the neurotoxin 1-methyl-4-phenylpyridinium [RGD, Feb 2006]