

Product datasheet for **RR201998**

Slc22a7 (NM_053537) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a7 (NM_053537) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc22a7
Synonyms:	Oat2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR201998 representing NM_053537
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCTTCAAGACCTGCTGGACAAGGTGGGCGCTTTGGCCCTTCCAACCTCGAATCTGGTTCTGA
 TGGCCCTGCCCGAATGCTGCTCCCATGCACTTTCTCCTGCCCGCTTTCATGGCCGCTGTGCTGCCCA
 CCATTGTGCCCTGCCCGGTGCCCTGCCAACCTCAGTCACCAGGACTTATGGCTGGAAGCCCATCTACCC
 CGGGAGACTGACGGCAGCTTTAGCTCCTGCCTCCGATTTGCCTATCCCCAGACTGTCCCAATGTCACTT
 TGGGGACAGAGGTGTCCAACCTCTGGGGAGCCTGAGGGTGAAGCCCTCACGGTGCCTGCTCTCAGGGCTG
 GGAGTACGACCGCTCAGAATTCTCCTCCACCATTGCAACTGAGTGGGATCTTGTGTGTCAGCAGAGAGGA
 CTGAACAAAATTACGTCCACCTGCTTCTCATTGGTGTGCTGGTGGGAGCCGTGGTGTATGGATACTTGT
 CTGACAGGTTTGGCAGGGCGCCGGCTTCTGCTGGTGGCCTACGTGAGCTCCCTGGTCTGGTCTGATGTC
 TGCAGCCTCCATCAACTACATCATGTTCTGTAGTACCCGTACACTCACCGGCTCAGCCCTGGCTGGCTTC
 ACCATCATTGTGCTCCCACTGGAGTTGGAGTGGCTGGATGTGGAGCACCGCACTGTGGCCGGGTGATCA
 GCACCGTCTTCTGGTCGGGAGGCGTGTGCTGCTGGCACTGGTGGGCTACCTGATCCGGAGCTGGCGCTG
 GCTTCTGCTGGCTGCCACCCTGCCGTGTGTCCCAGGCATCATCAGCATCTGGTGGGTTCTGAGTCTGCA
 CGGTGGCTTCTAACCCAGGGTCTGTGGAGGAGGCAAAAAATACTTGTGAGCTGTGCCAAGCTCAATG
 GCGCGCCCGTGGGTGAGGGCAGCCTGAGCCAGGAGGCCCTGAACAACGTGGTCACCATGGAAGGGCGTT
 GCAAAGACCCTCATACTTAGACCTGTTCCGAACATCTCAGCTCCGACATATCTACTGTGCTGCATGATG
 GTGTGGTTTGGAGTGAACTTTTCTACTACGGCCTGACTCTGGACGTGTCTGGGCTGGGCTGACGTGT
 ACCAGACACAGCTGCTGTTTGGGGCTGTGGAGCTCCCTCCAAAATATGGTCTACTTCTTGTGCGCCG
 TCTGGGACGCGCTCACGGAGGCTGGGATGCTGCTGGGCGCTGCTCTGACCTTTGGCACCAGCCTGCTG
 GTATCCTTGGAGACTAAGTCATGGATCACTGCTCTGGTGGTGGTGGGAAAGCTTTTTCTGAAGCTGCTT
 TTAACGGCCTACCTGTTACGTCCGAGTTGTACCCTACTGTGCTCAGACAGACAGGATTGGGACTTAC
 TGCATCATGGGCAGGCTAGGGGCTCTCTGGCCCACTGGCGCCTTGTGGATGGAGTGTGGCTGTTG
 CTGCCAAAGTTGCTTACGGGGGATTGCCCTGGTGGCTGCCTGCACTGCACTCCTGCTGCCTGAGACGA
 AGAAGGCACAGCTGCCAGAGACCATCCAGGATGTGGAGAGGAAGAGTACCCAGGAGGAAGATGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201998 representing NM_053537
 Red=Cloning site Green=Tags(s)

MGFEDLLDKVGGFQPLRNLVLMALPRMLLPMHFLLPVFMAAVPAHHCALPGAPANLSHQDLWLEAHL
 RETDGSFSSCLRFAYPQTVPNVTLGTEVSNSGEPGEPLTVPCSQGWYDRSEFSSTIATEWDLVCQQRG
 LNKITSTCFFIGVLVAVVYGYLSDRFRRRLLLVAYVSSLVLGLMSAASINYIMFVVTRTLTGSALAGF
 TIIIVLPLELEWLDVEHRTVAGVISTVFWSGGVLLALVGYLIRSWRLLAATLPCVPGIISIWWVPESA
 RWLLTQGRVEAKKYLLSCKLNRPVGEGLSQEALNNVVTMERALQRPYLDLFRTSQLRHISLCCMM
 YWFGVNFYYGLTLDVSGLGLNVYQTQLLFGAVELPSKIMVYFLVRRLRRLTEAGMLLGAALTFGTSL
 VSLETKWITALVVVGKAFSEAAFTTAYLFTSELYPTVLRQTGLGLTALMGRLGASLAPLAAALLDGVWLL
 LPKVAYGGIALVAECTALLLPETKKAQLPETIQDVERKSTQEEDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

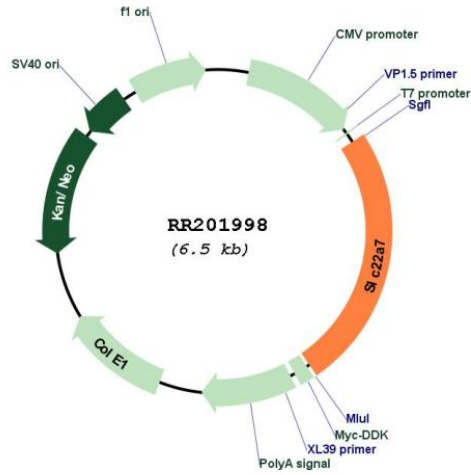
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_053537
ORF Size:	1605 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	NM_053537.2 , NP_445989.2
RefSeq Size:	1636 bp
RefSeq ORF:	1608 bp
Locus ID:	89776
UniProt ID:	Q5RLM2
Cytogenetics:	9q12
MW:	58.7 kDa
Gene Summary:	may act as an organic ion transporter during liver development [RGD, Feb 2006]