

Product datasheet for **RC207558**

SLC22A7 (NM_006672) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A7 (NM_006672) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC22A7
Synonyms:	hOAT11; NLT; OAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207558 representing NM_006672.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGGCTTTGAGGAGCTGCTGGAGCAGGTGGCGGCTTTGGGCCCTTCCAAGTGCAGGATGTGGCACTG
CTGGCCCTGCCCGAGTGTCTACCACTGCATTCCTCCTGCCATCTCCTGGCTGCCGTGCCTGCC
CACCGATGTGCCCTGCCGGGTGCCCTGCCAACTTCAGCCATCAGGATGTGTGGCTGGAGGCCATCTT
CCCCGGGAGCCTGATGGCAGCTCAGCTCCTGCCTCCGCTTTGCCTATCCCCAGGCTCTCCCAACACC
ACGTTGGGGGAAGAAAGGCAGAGCCGTGGGAGCTGGAGGATGAACCTGCCACAGTGCCTGCTCTCAG
GGCTGGGAGTACGACCACTCAGAATTCCTCTACCAATTGCAACTGAGTCCAGTGGGATCTGGTGTGT
GAGCAGAAAGGTCTGAACAGAGCTGCGTCCACTTTCTTCTCGCCGGTGTGCTGGTGGGGCTGTGGCC
TTTGGATATCTGTCGACAGGTTTGGGCGCGGCGTCTGCTGCTGGTAGCCTACGTGAGTACCCTGGTG
CTGGCCCTGGCATCTGCAGCCTCCGTGAGTATGTAATGTTTGCATCACCCGACCCCTTACTGGCTCA
GCCCTGGCTGGTTTTACCATCATCGTATGCCACTGGAGCTGGAGTGGCTGGATGTGGAGACCCGACC
GTGGCTGGAGTCTGAGCAGCACCTTCTGGACAGGGGGCGTGATGCTGCTGGCACTGGTTGGGTACCTG
ATACGGGACTGGCGATGGCTTCTGCTAGCTGTACCCCTGCCTTGTGCCCCAGGCATCCTCAGCCTCTGG
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CACTGTGCCAGGCTCAATGGGCGGCCAGTGTGTGAGGACAGCTTCAGCCAGGAGGCTGTGAGCAAAGTG
GCCGCCGGGAACGGGTGGTCCGAAGACCTTCATACCTAGACCTGTTCCGCACACCACGGCTCCGACAC
ATCTCACTGTGCTGCGTGGTGGTGTGGTTCGGAGTGAACCTTCTCTATTACGGCCTGAGTCTGGATGTG
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CTGGTCTACTTGTGCGTGCCTACGCAGGACGCCCTCACGCAAGCCGGGACACTGCTGGGACAGGCC
CTGGCGTTTCGGCACTAGACTGCTAGTGTCTCCGATATGAAGTCTGGAGCACTGCTCTGGCAGTGATG
GGGAAAGCTTTTTCTGAAGCTGCCTTCACTACCTGCTTCACTTCAAGTGTACCTACGGTG
CTCAGACAGACAGGGATGGGGCTGACTGCACTGGTGGGCGGCTGGGGGGCTCTTTGGCCCCACTGGCG
GCCTTGTGGATGGAGTGTGGCTGTCACTGCCAAGCTTACTTATGGGGGATCGCCCTGCTGGCTGCC
GGCACC GCCCTCTGCTGCCAGAGACGAGGCAGGCACAGCTGCCAGAGACCATCCAGGACGTGGAGAGA
AAGAGTGCCCCAACCACTTTCAGGAGGAAGAGATGCCCATGAAGCAGGTCCAGAAC
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Protein Sequence:

>Peptide sequence encoded by RC207558
 Blue=ORF Red=Cloning site Green=Tag(s)

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MGFEELLEQVGGFGPFQLRNVALLLPRVLLPLHFLLPFLAAMPVPAHRCALPGAPANFSHQDVWLEAHL
PREPDGTLSSCLRFAYPQALPNTTLGEERQSRGELEDEPATVPCSQGWEDHSEFSSTIATESQWDLVC
EQKGLNRAASTFFAGVLVGAVAFGYLSDRFGRRLLLVAYVSTLVGLASAASVSVMFAITRTLGS
ALAGFTIIVMPLELEWLDVEHRTVAGVLSSTFWTGGVMLLALVGYLIRDWRWLLAVTLPCAPGILSLW
WVPESARWLLTQGHVKEAHRYLLHCARLNGRPVCEDSFSQEAASKVAAGERVVRPSYLDLFRTPRLRH
ISLCCVVWFVNFVSYGLSLDVSGGLNLYQTQLLFGAVELPSKLLVYLSVRYAGRRLTQAGTLLGTA
LAFGTRLLVSSDMKSWSTVLAVMGKAFSEAAFTTAYLFTSELYPTVLRQTGMGLTALVGRLLGSLAPLA
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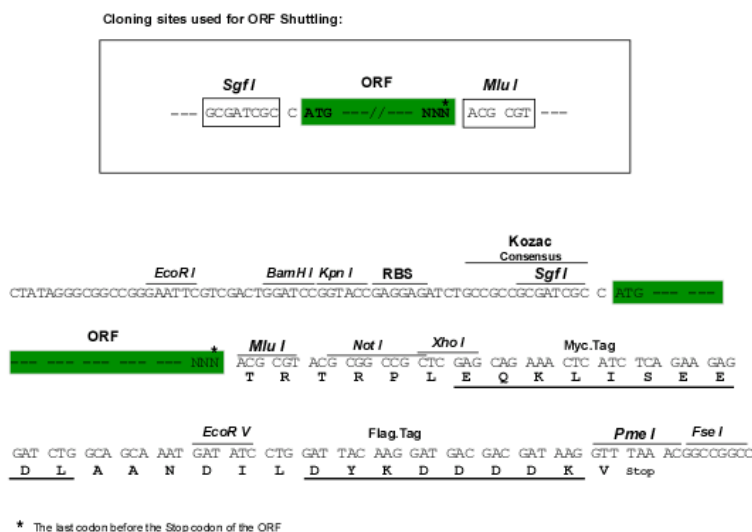
Chromatograms:

https://cdn.origene.com/chromatograms/mk6019_e10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM 006672

ORF Size: 1644 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.

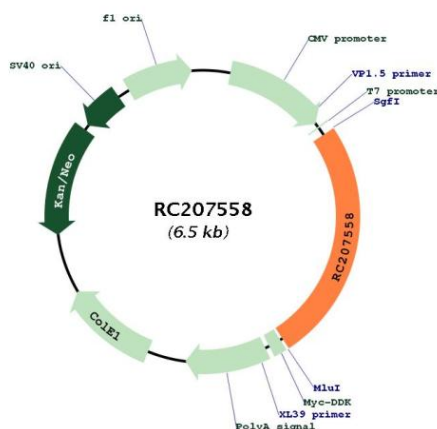
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

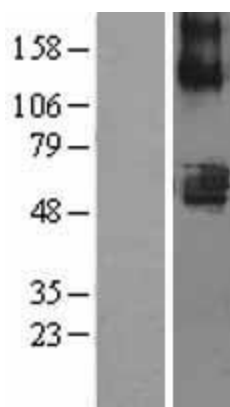
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq Size:	2553 bp
RefSeq ORF:	1641 bp
Locus ID:	10864
UniProt ID:	Q9Y694
Cytogenetics:	6p21.1
Domains:	sugar_tr
Protein Families:	Druggable Genome, Transmembrane
MW:	60 kDa
Gene Summary:	The protein encoded by this gene is involved in the sodium-independent transport and excretion of organic anions, some of which are potentially toxic. The encoded protein is an integral membrane protein and appears to be localized to the basolateral membrane of the kidney. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC207558



Western blot validation of overexpression lysate (Cat# [LY401997]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207558 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).