

Product datasheet for **RG207558**

SLC22A7 (NM_006672) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A7 (NM_006672) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC22A7
Synonyms:	hOAT11; NLT; OAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG207558 representing NM_006672
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGGCTTTGAGGAGCTGCTGGAGCAGGTGGGCGGCTTTGGGCCCTTCCAACCTGCGGAATGTGGCACTGC
 TGGCCCTGCCCGAGTGCTGCTACCACTGCACTTCCTCCTGCCCATCTTCTGGCTGCCGTGCCTGCCCA
 CCGATGTGCCCTGCCGGGTGCCCTGCCAACTCAGCCATCAGGATGTGTGGCTGGAGGCCCATCTTCCC
 CGGGAGCCTGATGGCAGCTCAGCTCCTGCCTCCGCTTTGCCTATCCCCAGGCTCTCCCCAACACCACGT
 TGGGGGAAGAAAGGCAGAGCCGTGGGGAGCTGGAGGATGAACCTGCCACAGTGCCTGCTCTCAGGGCTG
 GGAGTACGACCACTCAGAATTCTCTCTACCATTGCAACTGAGTCCAGTGGGATCTGGTGTGTAGCAG
 AAAGTCTGAACAGAGCTGCGTCCACTTTCTTCTCGCCGGTGTGCTGGTGGGGCTGTGCCTTTGGAT
 ATCTGTCCGACAGGTTTGGGCGGCGCTGTGCTGCTGGTAGCCTACGTGAGTACCCTGGTGTGGGCT
 GGCATCTGCAGCCTCCGTCAGCTATGTAATGTTTGCCATCACCCGCACCCTTACTGGCTCAGCCCTGGCT
 GGTTTTACCATCATCGTGATGCCACTGGAGCTGGAGTGGCTGGATGTGGAGCACCGCACCGTGGCTGGAG
 TCCTGAGCAGCACCTTCTGGACAGGGGGCGTGATGCTGCTGGCACTGGTTGGGTACCTGATACGGGACTG
 GCGATGGCTTCTGCTAGCTGTCAACCCTGCCTTGTGCCCCAGGCATCCTCAGCCTCTGGTGGGTGCCTGAG
 TCTGCACGCTGGCTTCTGACCAAGGCCATGTAAAGAGGCCACAGGTAAGTGTCTCCACTGTGCCAGGC
 TCAATGGGCGGCCAGTGTGTGAGGACAGCTTACGACAGGAGGCTGTGAGCAAAGTGGCCGCCGGGAACG
 GGTGGTCCGAAGACCTTCATACCTAGACCTGTTCCGCACACCAGGCTCCGACACATCTCACTGTGCTGC
 GTGGTGGTGTGGTTCGGAGTGAACCTCTCTATTACGGCCTGAGTCTGGATGTGTGGGGCTGGGGCTGA
 ACGTGTACAGACACAGCTGTTGTTGGGGCTGTGGAAGTGCCTCCAAGCTGCTGGTCTACTTGTGGT
 GCGCTACGCAGGACGCCCTCACGCAAGCCGGGACACTGCTGGGCACGGCCCTGGCGTTCCGCACTAGA
 CTGCTAGTGTCTCCGATATGAAGTCTGGAGCACTGCTGGCAGTGTGGGAAAGCTTTTTCTGAAG
 CTGCCTTCAACCACTGCCTACCTGTTCACTTCAGAGTTGTACCCTACGGTGTCTCAGACAGACAGGATGGG
 GCTGACTGCACTGGTGGGCCGGCTGGGGGGCTCTTTGGCCCCACTGGCGGCTTGTGGATGGAGTGTGG
 CTGTCACTGCCAAGCTTACTTATGGGGGGATCGCCCTGCTGGCTGCCGGCACCGCCCTCTGCTGCCAG
 AGACGAGGCAGGCACAGCTGCCAGAGACCATCCAGGACGTGGAGAGAAAGAGTCCCCAACCACTCTTCA
 GGAGGAAGAGATGCCCATGAAGCAGGTCCAGAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207558 representing NM_006672
 Red=Cloning site Green=Tags(s)

MGFEELLEQVGGFGPFQLRNVALALLPRVLLPLHFLPLIFLAAPPAHRCALPGAPANFSHQDVWLEAHL
 REPDLSSCLRFAYPQALPNTTLGEERQSRGELEDEPATVPCSQGWYDHSEFSSSTIATESQWDLVCEQ
 KGLNRAASTFFAGVLVGAVAFGYLSDFRGRRLLLVAYVSTLVGLASAASVSVMFAITRTLTSALA
 GFTIIVMPLELEWLDVEHRTVAGVLSSTFWTGGVMLLALVGYLIRDWRLLAVTLPCAPGILSLWWPE
 SARWLLTQGHVKEAHRYLLHCA RLNGRPVCEDSFSQEAVSKVAAGERVVRRPSYLDLFRTPRLRHISLCC
 VVVWFGVNFSSYYGLSLDVSGGLNVTQQLFGAVELPSKLLVYLSVRYAGRRLTQAGTLLGTALAFGTR
 LLVSSDMKSWSTVLAVMGKAFSEAAFTTAYLFTSELYPTVLRQTGMGLTALVGRLLGSLAPLAALLDGVW
 LSLPKLTYGGIALLAAGTALLPETRQAQLPETIQDVERKSAPTSLQEEEMPMKQVQN

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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.

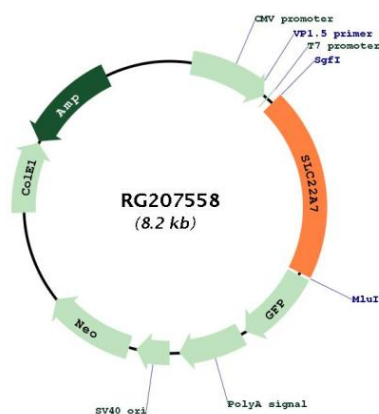
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

RefSeq:	<u>NM_006672.3, NP_006663.2</u>
RefSeq Size:	2553 bp
RefSeq ORF:	1641 bp
Locus ID:	10864
UniProt ID:	<u>Q9Y694</u>
Cytogenetics:	6p21.1
Domains:	sugar_tr
Protein Families:	Druggable Genome, Transmembrane
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 RG207558