

Product datasheet for **RG222899**

SLC22A7 (NM_153320) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A7 (NM_153320) 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:

>RG222899 representing NM_153320
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTTTGAGGAGCTGCTGGAGCAGGTGGGCGCTTTGGGCCCTTCCAACCTGCGGAATGTGGCACTGC
 TGGCCCTGCCCGAGTGCTGCTACCACTGCACTTCCTCCTGCCATCTTCTGGCTGCCGTGCCTGCCCA
 CCGATGTGCCCTGCCGGGTGCCCTGCCAACTCAGCCATCAGGATGTGTGGCTGGAGGCCCATCTTCCC
 CGGGAGCCTGATGGCACGCTCAGCTCCTGCCTCCGCTTTGCCTATCCCCAGGCTCTCCCCAACACCAGT
 TGGGGGAAGAAAGGCAGAGCCGTGGGGAGCTGGAGGATGAACCTGCCACAGTGCCTGCTCTCAGGGCTG
 GGAGTACGACCACTCAGAATTCTCTCTACCATTGCAACTGAGTCCCAGTGGGATCTGGTGTGTAGCAG
 AAAGTCTGAACAGAGCTGCGTCCACTTCTTCTTCGCCGGTGTGCTGGTGGGGCTGTGGCCTTTGGAT
 ATCTGTCCGACAGGTTTGGGCGCGCGCTCTGCTGCTGGTAGCCTACGTGAGTACCCTGGTGTGGCCT
 GGCATCTGCAGCCTCCGTCAGCTATGTAATGTTTGCATCACCCGCACCCTTACTGGCTCAGCCCTGGCT
 GGTTTTACCATCATCGTGATGCCACTGGAGCTGGAGTGGCTGGATGTGGAGCACCGCACCGTGGCTGGAG
 TCCTGAGCAGCACCTTCTGGACAGGGGGCGTGATGCTGCTGGCACTGGTTGGGTACCTGATACGGGACTG
 GCGATGGCTTCTGCTAGCTGTACCCTGCCTTGTGCCCCAGGCATCCTCAGCCTCTGGTGGGTGCCTGAG
 TCTGCACGCTGGCTTCTGACCCAAGGCCATGTAAAGAGGCCACAGGTAAGTCTGCTCCACTGTGCCAGGC
 TCAATGGGCGGCCAGTGTGTGAGGACAGCTTACGCCAGGAGGCTGTGAGCAAAGTGGCCGCCGGGAACG
 GGTGGTCCGAAGACCTTCATACCTAGACCTGTCCGCACACCACGGCTCCGACACATCTCACTGTGCTGC
 GTGGTGGTGTGGTTCGGAGTGAACCTCTCTCTATTACGGCCTGAGTCTGGATGTGTGGGGCTGGGCTGA
 ACGTGTACCAGACACAGCTGTTGTTTCGGGGCTGTGGAAGTGCCTCCAAGCTGCTGGTCTACTTGTGGT
 GCGCTACGCAGGACGCCCTCACGCAAGCCGGGACACTGCTGGGCACCGCCCTGGCGTTTCGGCACTAGA
 CTGCTAGTGTCTCCGATATGAAGTCTGGAGCACTGTCCTGGCAGTGTGGGAAAGCTTTTTCTGAAG
 CTGCCTTACCCTGCCTACCTGTTCACTTACAGAGTTGTACCCTACGGTGTGCTCAGACAGACAGGGATGGG
 GCTGACTGCACTGGTGGGCCGGCTGGGGGGCTCTTTGGCCCCACTGGCGCCTTGTGGATGGAGTGTGG
 CTGCTACTGCCAAGCTTACTTATGGGGGGATCGCCCTGCTGGCTGCCGGCACCGCCCTCTGCTGCCAG
 AGACGAGGCAGGCACAGCTGCCAGAGACCATCCAGGACGTGGAGAGAAAGAGTCCCCAACCAAGTCTTCA
 GGAGGAAGAGATGCCCATGAAGCAGTCCAGAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG222899 representing NM_153320
 Red=Cloning site Green=Tags(s)

MGFEELLEQVGGFGPFQLRNVALLALPRVLLPLHFLLPFLA AVPAHRCALPGAPANF SHQDVWLEAHL P
 REPDGTLSSCLRFAYPQALPNTTLGEERQSRGELEDEPATVPCSQGWEYDHSEFSSSTIATESQWDLVCEQ
 KGLNRAASTFFFAGVLVGAFAFYLSDFRGRRLLLVAYVSTLVLGLASAASVSYVMFAITRTLTSALA
 GFTIIVMPLELEWLDVEHRTVAGVLSSTFWTGGVMLLALVGYLIRDWRWLLAVTLPCAPGILSLWWVPE
 SARWLLTQGHVKEAHRYLLHCARLNGRPVCEDSFSQEAVSKVAAGERVRRPSYLDLFRTPRLRHISLCC
 VVWFVGNFSYYGLSLDVSGLGLNVYQTQLLFGAVELPSKLLVYLSVRYAGRRLTQAGTLLGTALAFGTR
 LLVSSDMKSWSTVLAVMGKAFSEAAFTTAYLFTSELYPTVLRQTGMGLTALVGRLGGSLAPLAALLDGVW
 LSLPKLTYGGIALLAAGTALLLPETRQAQLPETIQDVERKSAPTSLQEEEMPMKQVQN

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_153320

ORF Size: 1644 bp

OTI Disclaimer: 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: [NM_153320.2](#), [NP_696961.2](#)

RefSeq Size: 2559 bp

RefSeq ORF: 1647 bp

Locus ID: 10864

UniProt ID: [Q9Y694](#)

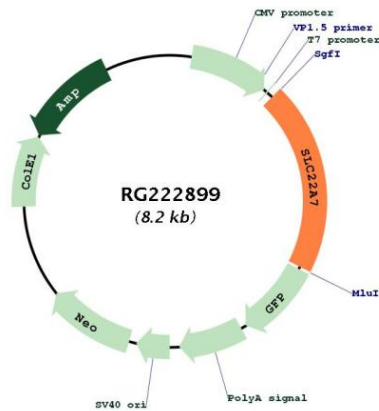
Cytogenetics: 6p21.1

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 RG222899