

Product datasheet for **MG208683**

Slc22a6 (NM_008766) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a6 (NM_008766) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc22a6
Synonyms:	mOat1; NKT; Oat1; Orctl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208683 representing NM_008766
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTCAATGACCTCCTGAAACAGGTGGGGGTGTGCGACGCTTCCAGCTGATCCAGGTCACCATGG
 TGGTTGCTCCCTACTGCTGATGGCTTCCACAACACCCTGCAGAACTTCACTGCTGCTATCCCCGCTCA
 CCACTGCCGCCACCTGCTAATGCCAACCTCAGCAAAGATGGAGGTCTGGAGGCCTGGCTGCCCTGGAC
 AAGCAAGGACGACCCGAATCTTGCTCCGCTTTCTTTCCCGACAATGGCACAGAGGCCAATGGCACCG
 GAGTCACAGAGCCCTGCCTTGTGGCTGGTCTATGACAAACAGCACCTTCCCTTCAACCATCGTGACTGA
 GTGGAACCTTGTGTGCTCTCATCGGGCCTTCCGCCAGTGGCCAGTCCCTGTTTCATGGTGGGAGTGTTA
 CTGGGAGCCATGATGTTGGCTACCTGGCGGACAGGCTGGGCCGTCGGAAGGTGCTGATCTTGAACCTACC
 TGCAAACAGCTGTGTCGGAACCTGTGCAGCCTATGCACCAACTATACTGTCTACTGCATTTTCCGGCT
 CCTCTCGGCATGTCTTTGGCTAGCATTGCAATCAACTGCATGACACTAAACATGGAGTGGATGCCTATT
 CACACCCGTGCCTATGTGGGCACCTTGATTGGCTATGTCTACAGCTTGGGCCAGTTCCTCCTGGCTGGTA
 TCGCCTATGCTGTGCCCACTGGCGCCACCTGCAGCTTGCCTGCTCTGTGCCCTTTTTCTGTTGCCTTCAT
 CTACTCTTGGTTCTTATTGAGTCAGCCCGCTGGTACTCCTCCTCTGGAAGGCTGGACCTCACCTCCGA
 GCCCTGCAGAGAGTGGCCCGCATCAACGGGAAACAAGAAGAGGGGGCTAAGCTGAGTATAGAGGTGCTCC
 AGACCAGCCTGCAGAAGGAACTGACTCTAAACAAGGCCAGGCCCTCCGCCATGGAGCTGCTGCGCTGCC
 CACGCTTCGGCGCCTCTCCTCTGCCTCTATGCTGTGGTTTGGCACTAGCTTTGCCTACTACGGGCTG
 GTCATGGACCTGCAGGGCTTTGGGGTCAAGTACCTTATCCAGGTGATTTTCGGCGCTGTGGACCTGC
 CTGCCAAGTTTGTGCTTCTAGTCATCAATTCCATGGGCCCGGCCCTGCACAGTTGCCCTCCTGTCT
 GCTGGCAGGCATCTGTATCCTAGTGAATGGCATAATACCGAGGGGCCATACAATCATTCCGACATCCCTG
 GCTGTAAGGAAAGGCTGTCTGGCTTCTTCAACTGCATCTTCTGTACACCGGAGAGCTGTACC
 CCACAATGATTCCGCAGACGGCCCTGGGCATGGCAGCACCATGGCCCGGTGGGAGCAGATAGTGGCC
 ACTGATAAGCATGACTGCCGAGTTCTACCCCTCCATACCTCTTTCATCTTCGGCGCTGTCCCGTGGCC
 GCCAGCGTGTCACTGCCCTGCTGCCAGAGACCTTGGGCCAGCCGCTGCCTGATACAGTGCAGGACCTGA
 AGAGCAGGAGCAGAGGAAAGCAGAAGCAACAGCAGCTGGAACAGCAGAAGCAGATGATACCACTCCAGGT
 CTAACACAAGAGAAGAACGGACTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208683 representing NM_008766
 Red=Cloning site Green=Tags(s)
 MAFNDLLKQVGGVGRFQLIQVTMVAPELLLMASHNTLQNFATAIPAHHCRRPPANANLSKDGGLLEAWLPLD
 KQGRPESCLRFPFPHNGTEANGTVTEPCLDGWVYDNSTFPSTIVTEWNLVCSHRAFRQLAQSLFMVGVL
 LGAMFGLADRLGRRKVLILNYLQTAVSGTCAAYAPNYTVYICIFRLLSGMSLASIAINCMTLNMEWMP
 HTRAYVGTLLIGVYVSLGQFLLAGIAYAVPHWRHLQLAVSVPFFVAFIYSWFFIESARWYSSSRGLDLTLR
 ALQRVARINGKQEEGAKLSIEVLQTSLQKELTLNKGQASAMELLRCPTLRRLFLCLSMWFATSFAYYGL
 VMDLQGFVSMYLIQVIFGAVDLPKAFVCFVINSMGRPPAQLASLLLAGICILVNGIIPRGHTIIRTSL
 AVLKGLCLASSFNCFIYTGELYPTMIRQTGLGMGSTMARVGSIVSPLISMTAEFYPSIPLFIFGAVPVA
 ASAVTALLPETLGQPLPDTVQDLKSRSRGKQKQQLLEQQKQMIPLQVSTQEKNGL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_008766
ORF Size:	1635 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:	<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_008766.3
RefSeq Size:	2234 bp
RefSeq ORF:	1638 bp
Locus ID:	18399
UniProt ID:	Q8VC69
Cytogenetics:	19 5.44 cM

Gene Summary:

Involved in the renal elimination of endogenous and exogenous organic anions. Functions as organic anion exchanger when the uptake of one molecule of organic anion is coupled with an efflux of one molecule of endogenous dicarboxylic acid (glutarate, ketoglutarate, etc). Mediates the sodium-independent uptake of 2,3-dimercapto-1-propanesulfonic acid (DMPS), cidofovir, adefovir, 9-(2-phosphonylmethoxyethyl) guanine (PMEG), 9-(2-phosphonylmethoxyethyl) diaminopurine (PMEDAP), ochratoxin (OTA), acyclovir (ACV), 3'-azido-3'-deoxythymidine (AZT), cimetidine (CMD), 2,4-dichloro-phenoxyacetate (2,4-D), hippurate (HA), indoleacetate (IA), indoxyl sulfate (IS) and 3-carboxy-4-methyl-5-propyl-2-furanpropionate (CMPF) and edaravone sulfate (By similarity). Mediates the sodium-independent uptake of p-aminohippurate (PAH). PAH uptake is inhibited by benzothiazolylcysteine (BTC), S-chlorotrifluoroethylcysteine (CTFC), cysteine S-conjugates S-dichlorovinylcysteine (DCVC), furosemide, steviol, phorbol 12-myristate 13-acetate (PMA), calcium ionophore A23187, benzylpenicillin, bumetamide, losartan, probenecid, phenol red, urate, glutarate and alpha-ketoglutarate (By similarity). PAH uptake is inhibited by p-chloromercuribenzenesulphonate (PCMBS), diethyl pyrocarbonate (DEPC), indomethacin, sulindac, diclofenac, carprofen, okadaic acid and PKC activators.[UniProtKB/Swiss-Prot Function]