

Product datasheet for **RG211926**

SLC22A1 (NM_153187) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC22A1
Synonyms:	HOCT1; OCT1; oct1_cds
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG211926 representing NM_153187
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCACCGTGGATGACATTCTGGAGCAGGTTGGGAGTCTGGCTGGTTCAGAAGCAAGCCTTCCTCA
 TCTTATGCCTGCTGTCGGCTGCCTTTGCGCCCATCTGTGTGGGCATCGTCTTCTGGGTTTCACACCTGA
 CCACCACTGCCAGAGTCTGGGGTGGCTGAGCTGAGCCAGCGCTGTGGCTGGAGCCCTGCGGAGGAGCTG
 AACTATACAGTGCCAGGCTGGGGCCCGGGCGAGGCCTTCCTTGGCCAGTGACGGCGCTATGAAGTGG
 ACTGGAACCAAGAGCGCCTCAGCTGTGTAGACCCCTGGCTAGCCTGGCCACCAACAGGAGCCACTGCC
 GCTGGGTCCCTGCCAGGATGGCTGGGTGTATGACACGCCCGGCTCTCCATCGTCACTGAGTTCAACCTG
 GTGTGTGCTGACTCCTGGAAGCTGGACCTTTTCAGTCTGTTGAATGCGGGCTTCTGTTTGGCTCTC
 TCGGTGTTGGCTACTTTGCAGACAGGTTTGGCCGAAGCTGTGTCTCCTGGAACTGTGCTGGTCAACGC
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 CTGGTCAGCAAGGCAACTGGATGGCTGGCTACACCCTAATCACAGAAATTTGTTGGCTCGGGCTCCAGAA
 GAACGGTGGCGATCATGTACCAGATGGCCTTCACGGTGGGGCTGGTGGCGCTTACCGGGCTGGCCTACGC
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 ACATCGCTCAAAAGAATGGGAAGTTGCCTCCTGCTGATTTAAAGATGCTTCCCTCGAAGAGGATGTCAC
 CGAAAAGCTGAGCCCTTCATTTGCAGACCTGTTCCGCACGCCGCGCTGAGGAAGCGCACCTTCATCCTG
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 ACCTCTACCTGGATTTCTTTACTCCGCTCTGGTCGAAATCCCGGGGCTTCATAGCCCTCATACCAT
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 TTGCAATACAAATGATCTGCCTGGTGAATGCTGAGCTGTACCCACATTGTCAGCGGTGTTGGGCTGC
 TTGCCGCGGAGTGACGCTACTTCTCCAGAGACCAAGGGGTGCTTTGCCAGAGACCATGAAGGACGC
 CGAGAACCTTGGGAGAAAAGCAAAGCCAAAGAAAACACGATTACCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

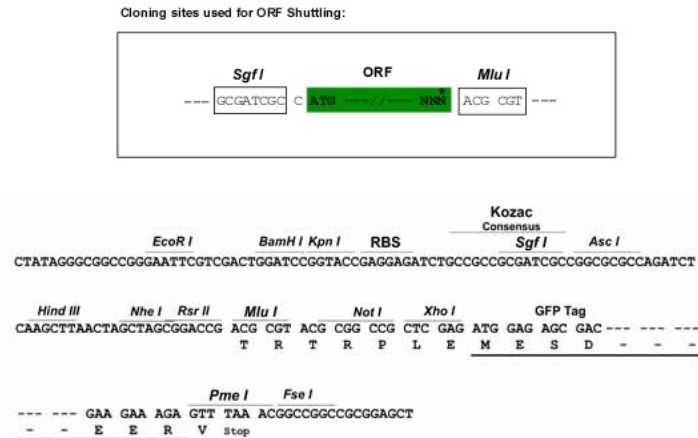
Protein Sequence: >RG211926 representing NM_153187
 Red=Cloning site Green=Tags(s)

MPTVDDILEQVGESGWFKQAFILCLLSAAFAPICVGI VFLGFTPDHHCQSPGVAELSQRCSWSPAEEL
 NYTVPLGLPAGEAFLGQCRRYEVDWNQSALSCVDPLASLATNRSHLPLGPCQDGWVYDTPGSSIVTEFNL
 VCADSWKLDLFQSCNLNAGFLFGSLGVGYFADRFGRKLCLLGTVLVNAVSGVLMFSPNYMSMLLFRLLQG
 LVSKGNWMAGYTLITEFVGSGSRRTVAIMYQMAFTVGLVALTGLAYALPHWRWLQLAVSLPTFLFLYYW
 CVPESPRWLLSQRNTEAIKIMDHIAQKNGKLPPADLKMLSLEEDVTEKLSPSFADLFRTPRLRKRTFIL
 MYLWFTDSVLYQGLILHMGATSGNLYLDFLYSALVEIPGAFIALITIDRVGRIYPMAMSNLLAGAACLM
 IFISPDLHWNIIIMCVGRMGITIAIQMIVLNAELYPTFVSGVGPACRGSDATSSRDQGGRFARDHEGR
 REPWEKSKAQRKHDLP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153187

ORF Size: 1518 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_153187.1](#), [NP_694857.1](#)

RefSeq Size: 1808 bp

RefSeq ORF: 1521 bp

Locus ID: 6580

UniProt ID: [Q15245](#)

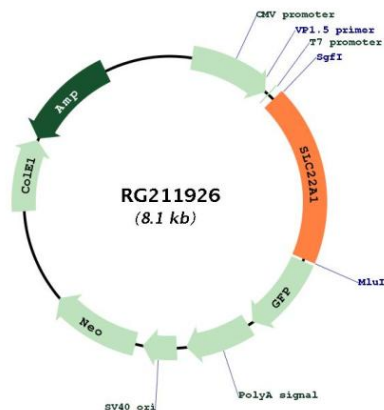
Cytogenetics: 6q25.3

Domains: sugar_tr

Protein Families: Transmembrane

Gene Summary: Polyspecific organic cation transporters in the liver, kidney, intestine, and other organs are critical for elimination of many endogenous small organic cations as well as a wide array of drugs and environmental toxins. This gene is one of three similar cation transporter genes located in a cluster on chromosome 6. The encoded protein contains twelve putative transmembrane domains and is a plasma integral membrane protein. Two transcript variants encoding two different isoforms have been found for this gene, but only the longer variant encodes a functional transporter. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG211926