

Product datasheet for **RG215877**

SLC5A11 (NM_052944) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC5A11
Synonyms:	KST1; RKST1; SGLT6; SMT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG215877 representing NM_052944
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGAGCGGCACCAGCAGCCCTCAGCCTCCACAGTTAGATCCCCTGGATGCGTTTCCCCAGAAGGGCT
 TGGAGCCTGGGGACATCGCGGTGCTAGTTCTGTACTTCTCTTTGTCTGGCTGTTGGACTATGGTCCAC
 AGTGAAGACAAAAAGACACAGTGAAGGCTACTTCTGGCTGGAGGGGACATGGTGTGGTGGCCAGTG
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 CTTCCATATTTCCGAGATCCGCTGACATCTGATCTCCCGTGGCCGGGGTCTATTGGAAATGTCCATC
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 CACCGTGAGCTGGTTCACAGAGCCACCCTCCAAGGAGATGGTCAGCCACCTGACCTGGTTTACTCGTCAC
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 GGCAAGGAAGAGCTCCCGGCCAGAGCAGAAGCCATCATAGTTTCCCTGGAAGAAAACCCCTTGGTGAAGA
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

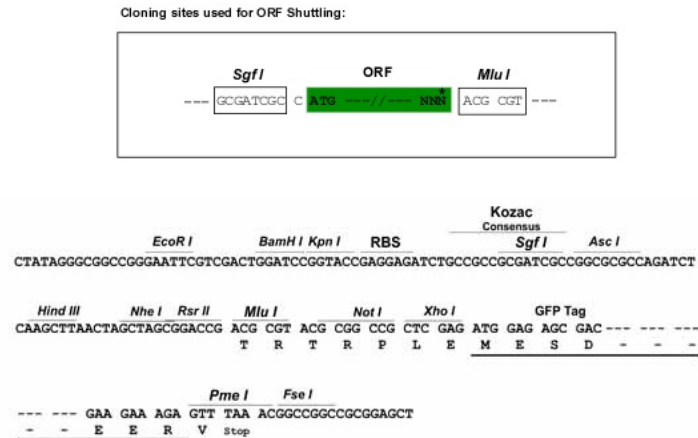
Protein Sequence: >RG215877 representing NM_052944
 Red=Cloning site Green=Tags(s)

MESGTSPPQPPQLDPLDAFPQKLEPGDIAVLVLYFLVLAVALWSTVKTRDVKGYFLAGDMVWWPV
 GASLFASNVGSGHFIGLAGSGAATGISVSAYELNGLFSVLMALWIFLPIYIAGQVTTMPEYLRKRFGGIR
 IPIILAVLYLFIYIFTKISVDMYAGAFIQQLHLDLYLAIVGLLAIITAVYTVAGGLAAVIYTDALQTLI
 MLIGALTLMGYSFAAVGMEGLKEKYFLALASNRSENSSCGLPREDAFHIFRDPLTSDLPWPGVLFMGSI
 PSLWYCTDQVIVQRTLAANKLSHAKGGALMAAYLKVLPFIMVFPGMVSRILFPDQVACADPEICQKIC
 SNPSGCSDIAYPKLVLELLPTGLRLMMAVMVAALMSSLTIFNSASTIFTMDLWNHLRPRASEKELMIV
 GRVFLVLLVLSILWIPVVQASQGGQLFIYIQSISSYLQPPVAVVFIMGCFWKRTNEKGAFWGLISGLLL
 GLVRLVLDFIYVQPRCDQDERPVLKSIHYLYFSMILSTVTLITVSTVSWFTEPPSKEMVSHLTWFTRH
 DPVVQKEQAPPAAPLSLTLNQNMPEASSSSVQFEMVQENTSKTHSCDMTPKQSKVVKAILWLCGIQEK
 GKEELPARAEAIIVSLEENPLVKTLLDVNLIFCVSCAIFIWGYFA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_052944

ORF Size: 2025 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.

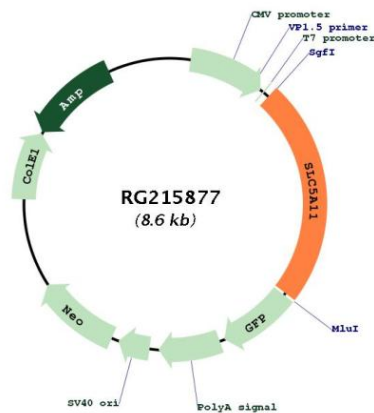
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_052944.3](#)

RefSeq Size: 2384 bp

RefSeq ORF:	2028 bp
Locus ID:	115584
UniProt ID:	Q8WWX8
Cytogenetics:	16p12.1
Gene Summary:	Cotransporters, such as SLC5A11, represent a major class of proteins that make use of ion gradients to drive active transport for the cellular accumulation of nutrients, neurotransmitters, osmolytes, and ions Roll et al. (2002) [PubMed 12039040].[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG215877