

Product datasheet for **RG234552**

SLC5A11 (NM_001258412) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A11 (NM_001258412) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC5A11
Synonyms:	KST1; RKST1; SGLT6; SMIT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234552 representing NM_001258412
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAGCGGCACCAGCAGCCCTCAGCCTCCACAGTTAGATCCCCTGGATGCGTTTCCCAGAAGGGCT
 TGGAGCCTGGGGACATCGCGGTGCTAGTTCTGTACTTCCTCTTTGTCTGGCTGTTGGACTATGGTCCAC
 AGTGAAGACAAAAGAGACACAGTGAAAGGCTACTTCCTGGCTGGAGGGGACATGGTGTGGTGGCCAGGC
 TTGTTTTCTGTGCTGATGTTGGCCTGGATCTTCTACCCATCTACATTGCTGGTCAGGTAGACATGTATG
 CAGGTGCCATCTTCATCCAGCAGTCTTTCACCTGGATCTGTACCTGGCCATAGTTGGGCTACTGGCCAT
 CACTGCTGTATACAGGTTGCTGGTGGCCTGGCTGCTGTGATCTACACGGATGCCCTGCAGACGCTGATC
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 AGAAGTACTTCTTGGCCCTGGCTAGCAACCGGAGTGAGAACAGCAGCTGCGGGCTGCCCGGGAAGATGC
 CTTCCATATTTCCGAGATCCGCTGACATCTGATCTCCCGTGGCCGGGGTCTATTTGGAATGTCCATC
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 ATGCCAAAGGAGGTGCTCTGATGGCTGCATACCTGAAGGTGCTGCCCCTTTTATAATGGTGTCCCTGG
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 CACCATCTTACCATGGACCTCTGGAATCACCTCCGGCCTCGGCATCTGAGAAGGAGCTCATGATTGTG
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 CACCGTGAGCTGGTTCACAGAGCCACCCTCCAAGGAGATGGTCAGCCACCTGACCTGGTTTACTCGTCAC
 GACCCCGTGGTCCAGAAGGAACAAGCACCACCAGCAGCTCCCTTGTCTTACCCTCTCTCAGAACGGGA
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 CTGTGACATGACCCAAAGCAGTCCAAAGTGGTGAAGGCCATCCTGTGGCTCTGTGAATACAGGAGAAG
 GGCAAGGAAGAGCTCCCGCCAGAGCAGAAGCCATCATAGTTTCCCTGGAAGAAAACCCCTTGGTGAAGA
 CCCTCTGGAGCTCAACCTCATTTTCTGCGTGAGCTGCGCCATCTTTATCTGGGGCTATTTTCT

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234552 representing NM_001258412
 Red=Cloning site Green=Tags(s)

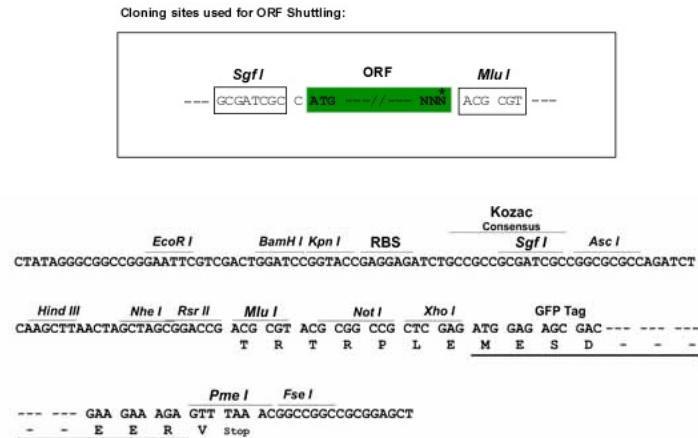
MESGTSPPQPPQLDPLDAFPQKLEPGDIAVLVLYFLVLAAGLWSTVTKRDTVKGYFLAGGDMVWWPG
 LFSVLMLAWIFLPIYIAGQVDMYAGAIIFIQSLHLDLYLAIVGLLAITAVYTVAGGLAAVIYTDALQTLI
 MLIGALTLMGYSFAAVGMEGLKEKYFLALASNRSENSSCGLPREDAFHIFRDPLTSDLWPVGVLFGMSI
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 GRVFLVLLVLSILWIPVQASQGGQLFIYIQSISSYLQPPVAVVFIMGCFWKRTNEKGAFWGLISGLLL
 GLVRLVLDFIYVQPRCDQDERPVLVKSILHYLYFSMILSTVTLITVSTVSWFTEPPSKEMVSHLTWFTRH
 DPVYVQKEQAPPAAPLSLTLSQNGMPEASSSSVQFEMVQENTSKTHSCDMPKQSKVVKAILWLCGIQEK
 GKEELPARAEAIIVSLEENPLVKTLLDVNLIFCVSCAIFIWGYFA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001258412

ORF Size: 1815 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_001258412.2](#), [NP_001245341.1](#)

RefSeq Size: 2302 bp

RefSeq ORF: 1818 bp

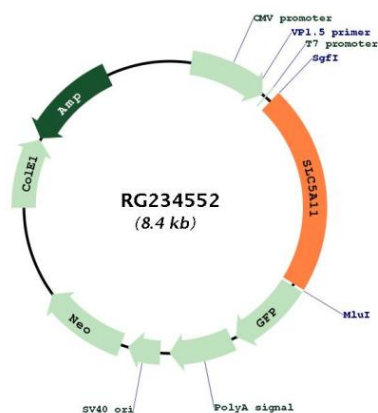
Locus ID: 115584

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 RG234552