

Product datasheet for **RG234483**

SLC47A2 (NM_001256663) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC47A2 (NM_001256663) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC47A2
Synonyms:	MATE2; MATE2-B; MATE2-K; MATE2K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG234483 representing NM_001256663
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGACAGCCTCCAGGACACAGTGGCCCTGGACCATGGGGCTGCTGCCCTGCCCTCAGCAGGCTGGTTC
 CCAGAGGCTTTGGGACTGAGATGTGGAATCTCTTTGCCCTTTCTGGACCCTGTTCTGTTCCAGGTGCT
 GACTTTTATGATCTACATCGTGAGCACTGTGTTCTGCGGGCACCTGGGCAAGGTGGAGCTGGCATCGGTG
 ACCCTCGCGGTGGCCTTTGTCAATGTCTGCGGAGTTTCTGTAGGAGTTGGTTTGTCTTCGGCATGTGACA
 CCTTGATGTCTCAGAGCTTCGGCAGCCCCAACAAAGACAGTGGGCGTGATCCTGCAGCGGGGCGCGCT
 GGTCTGCTCCTCTGCTGCCTCCCTTGTGGGCGCTCTTCTCAACACCCAGCACATCCTGCTGCTCTTC
 CGGCAGGACCCGACGTGTCCAGGTTGACCCAGGACTATGTAATGATTTTCATTCCAGGACTTCCGGTGA
 TTTTCTTTACAATCTGCTGGCAAAATATTTGCAAAATCAGAAGATCACCTGGCCCCAAGTCTCAGTGG
 TGTGGTGGCAACTGTGTCAACGGTGTGGCCAACTATGCCCTGGTTTCTGTGCTGAACCTGGGGTCAAG
 GGCTCCGCCTATGCCAACATCATCTCCAGTTTGACAGACCGCTTCTCTCTTCTCTACATTGTGCTGA
 AGAAGCTGCACCTGGAGACGTGGGACAGTTGGTCCAGCCAGTGCCTGCAGGACTGGGGCCCTTCTTCTC
 CCTGGCTGTCCCCAGCATGCTCATGATCTGTGTTGAGTGGTGGGCTATGAGATCGGGAGCTTCTCATG
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 GACACAGCCATCGTCTTGCTTATGCAGCCCATGTCACTCGGATTCCTTGGGGCTCAGCATCGGGGTCTG
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 GAATCATGGGCTCTGGCTGGGCATGCTGGCCTGTGTCTTCTGGCAACTGCTGCCTTTGTGCTTATAC
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 GCAGAGAGCACTGCAACCAGACCTGGGCTGAGAAAGCAGTCTATCTTCACTGGCTACAGGCAGTTCCC
 CTGGCATTACCTTGACAACGTATTCAAGGTCTGAGTGCCACGTGGACTTCTTCAAGACTCCAGAGGAGGC
 CCACGCCCTTTCAGCTCCTACCAGCAGACTATCAGTGAACAGCTGGTCATCCGCCGTGGGGCTGCTCTG
 GGGCGGCGTCAGCCACACTGATGGTGGGCTCACGGTCAGGATCCTAGCCACCAGGCAC

ACGCGTACGCGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234483 representing NM_001256663
 Red=Cloning site Green=Tags(s)

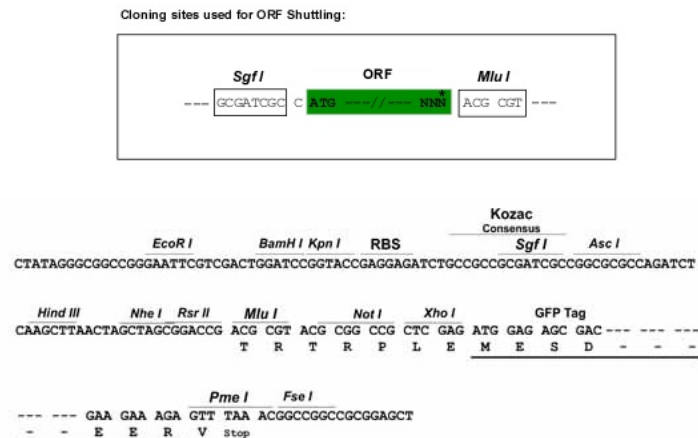
MDSLQDVTALDHGGCCPALSRLVPRGFTEMWTLFALSGPLFLFQVLTFMIYIVSTVFCGHLGKVELASV
 TLAVAFVNVCGVSVGVGLSSACDTLMSQSFSGPNKKHVGVILQRGALVLLLCCLPCWALFLNTQHILLLF
 RQDPDVSRLTQDYVMIFIPGLPVIFLYNLLAKYLQNQKITWPQVLSGVVGNVNGVANYALVSVNLGVR
 GSAYANIISQFAQTVFLLLYIVLKKLHLETWAGWSSQCLQDWGPFFSLAVPSMLMICVEWWAYEIGSFML
 GLLSVVDLSAQAVIYEVATVTYMRHSHRLAYAAHVTRIPLGLSIGVCVRVGMALGAADTVQAKRSVSGV
 LSIVGISLVLTLSILKNQLGHIFTNDEDVIALVSQVLPVYSVFHVFEAICCVYGGVLRGTGKQAFGAA
 VNAITYYIIGLPLGILLTFVVRMRIMGLWLGMLACVFLATAAFVAYTARLDWKLAEEAKKHSGRQQQQR
 AESTATRPGPEKAVLSSVATGSSPGITLTTYSRSECHVDFFRTPEEAHALSAPTSRLSVKQLVIRRGAAAL
 GAASATLMVGLTVRILATRH

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001256663

ORF Size: 1740 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_001256663.2](#)

RefSeq Size: 2289 bp

RefSeq ORF: 1743 bp

Locus ID: 146802

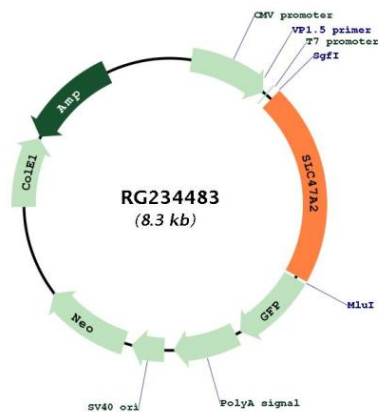
UniProt ID: [Q86VL8](#)

Cytogenetics: 17p11.2

Protein Families: Transmembrane

Gene Summary: This gene encodes a protein belonging to a family of transporters involved in excretion of toxic electrolytes, both endogenous and exogenous, through urine and bile. This transporter family shares homology with the bacterial MATE (multidrug and toxin extrusion) protein family responsible for drug resistance. This gene is one of two members of the MATE transporter family located near each other on chromosome 17. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG234483