

Product datasheet for **RG238197**

SLC43A2 (NM_001284499) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC43A2 (NM_001284499) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC43A2
Synonyms:	LAT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238197 representing NM_001284499. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGACCTACGGGAGTCCACAGGCAATGCAAGCCCATCCGATGCTGTGGCGCTGGACCATGGGGAGGTC
 AGCCGAAGGCAACAGCAGGAGCTGCCAACATGTTCCGGCAGCTTCGGTCCACGTTTATTGCCTTGATG
 ATTGGGTCTACGCCTCTCGGCAGTCACCTTTCCAGGAATCAAGCTCATCTATGATGCTGGTGTCTCC
 TTCATCGTCGCTCTGTTGCTGGGCCGGCTGCTCCGGGCTGGTTTCTCAACTGCTTCTTTAACTGG
 CCCCTTGAGCCCTTCCCGGGCCGGAGGACATGGACTACTCGGTGAAGATCAAGTTCAGCTGGCTGGGC
 TTTGACCACAAGATCACAGGGAAGCAGTTCTACAAGCAGGTGACCACGGTGGGCCGGCGCCTGAGTGTG
 GGCAGCTCCATGAGGAGTGCCAAGGAGCAGGTGGCGCTGCAGGAGGGCCACAAGCTGTGCCTGTCCACC
 GTCGACCTGGAGGTGAAGTGCCAGCCGGATGCCGAGTGGCCCCCTCTTCATGCACAGCGTGTTCAAGC
 CCCATCCTGCTGCTCAGCCTGGTCACCATGTGCGTCACGCAGCTGCGGCTCATCTTACATGGGGGCT
 ATGAACAACATCTCAAGTTCTGGTCAGCGGCGACAGAGAAGACAGTTGGCCTCTACACCTCCATCTTC
 GGCGTGCTCCAGCTGCTGTGCCTGCTGACGGCCCCGTCATTGGCTACATCATGGACTGGAGGCTGAAG
 GAGTGTGAAGACGCCTCCGAGGAGCCCGAGGAGAAAGACGCCAACCAAGGCGAGAAGAAAAAGAAGAAG
 CGGGACCGGCAGATCCAGAAGATCACTAATGCCATGCGGGCCTTCGCCTTACCAACCTGCTGCTCGTG
 GGCTTTGGGTGACCTGCCTCATTCCCAACCTGCCTCTCCAGATCCTCTCCTTCATCCTGCACACAATC
 GTGCGAGGATTATCCACTCCGCTGTCCGGGGCCTGTACGCTGCCGTGTACCCCTCCACCCAGTTTCGGC
 AGCCTCACGGGACTGCAGTCTCTGATCAGCGCGCTCTTCGCCCTTCTGCAGCAGCGCTGTTTCTGGCC
 ATGATGGGTCTCTCCAGGGAGACCTCTGTGGGTGAACGTGGGGCTGCTCCTTCTCAGCCTGCTGGGC
 TTCTGCCTCCCGCTCTACCTGATCTGCTACCGGCCAGCTGGAGCGGCAGCTGCAGCAGAGGCAGGAG
 GATGACAACTCTTCTCAAAATCAACGGCTCGTCCAACAGGAGGCCTTCGTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC

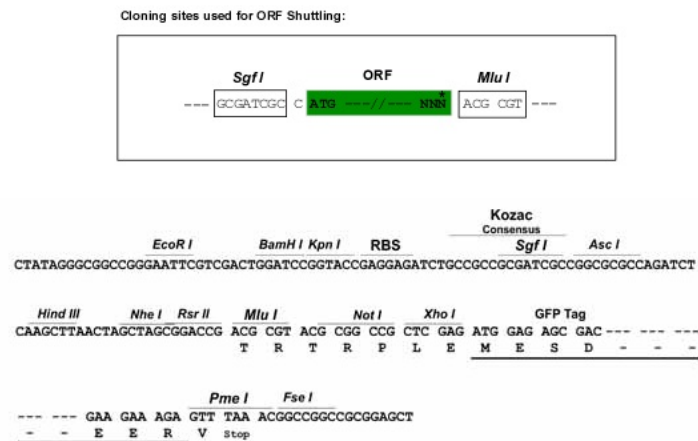

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Protein Sequence: >Peptide sequence encoded by RG238197
 Blue=ORF Red=Cloning site Green=Tag(s)

MTYGSPQANASPSDAVALDHGEVSRRQQQLPNMFGDLRSTFIALMIGSYASSAVTFPGIKLIYDAGVS
 FIVVLVWAGCSGLVFLNCFNWPLEFPFGPEDMDYSVKIKFSWLGFHDKITGKQFYKQVTVGRRLSV
 GSSMRSAKEQVALQEGHKLCLSTVDLEVKCQPDAAVAPSFMHVSFSPILLLSLVTMCVTQLRLIFYMGA
 MNNILKFLVSGDQKTVGLYTSIFGVLQLLCLLTAPVIGYIMDWRLKECEDASEEPEEKDANQGEKKKKK
 RDRQIQKITNAMRAFAFTNLLLVGFGVTCLIPNLPLQILSFILHTIVRGFIHSAVGGLYAAVYPSTQFG
 SLTGLQSLISALFALLQQPLFLAMMGPLQGDPLWYNVGLLLL SLLGFCLPLYLYICYYRQLERQLQQRQE
 DDKLFLKINGSSNQEAHV
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPGYPENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAVEHLHPMGDNDLDGSFTRTSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001284499

ORF Size: 1315 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](#)

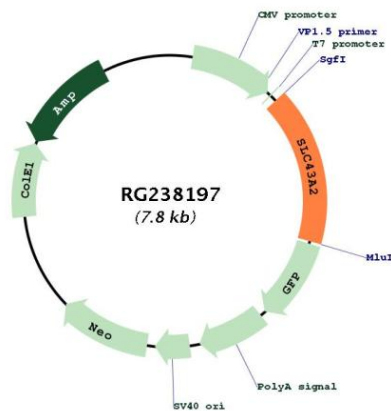
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

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

RefSeq:	<u>NM_001284499.1, NP_001271428.1</u>
RefSeq Size:	7872 bp
RefSeq ORF:	1299 bp
Locus ID:	124935
UniProt ID:	<u>Q8N370</u>
Cytogenetics:	17p13.3
Protein Families:	Transmembrane
MW:	48.4 kDa
Gene Summary:	This gene encodes a member of the L-amino acid transporter-3 or SLC43 family of transporters. The encoded protein mediates sodium-, chloride-, and pH-independent transport of L-isomers of neutral amino acids, including leucine, phenylalanine, valine and methionine. This protein may contribute to the transfer of amino acids across the placental membrane to the fetus. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG238197