

Product datasheet for **RC238197**

SLC43A2 (NM_001284499) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC43A2 (NM_001284499) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC43A2
Synonyms:	LAT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC238197 representing NM_001284499
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGACCTACGGGAGTCCACAGGCAAATGCAAGCCCATCCGATGCTGTGGCGCTGGACCATGGGAGGTCA
 GCCGAAGGCAACAGCAGGAGCTGCCAACATGTTGCGCGACCTTCGGTCCACGTTTATTGCCTTGATGAT
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 TTGAGCCCTTCCCGGGCCGGAGGACATGGACTACTCGGTGAAGATCAAGTTCAGCTGGCTGGGCTTTGA
 CCACAAGATCACAGGGAAGCAGTTCTACAAGCAGGTGACCACGGTGGGCCGGCGCCTGAGTGTGGGCAGC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC238197 representing NM_001284499
 Red=Cloning site Green=Tags(s)

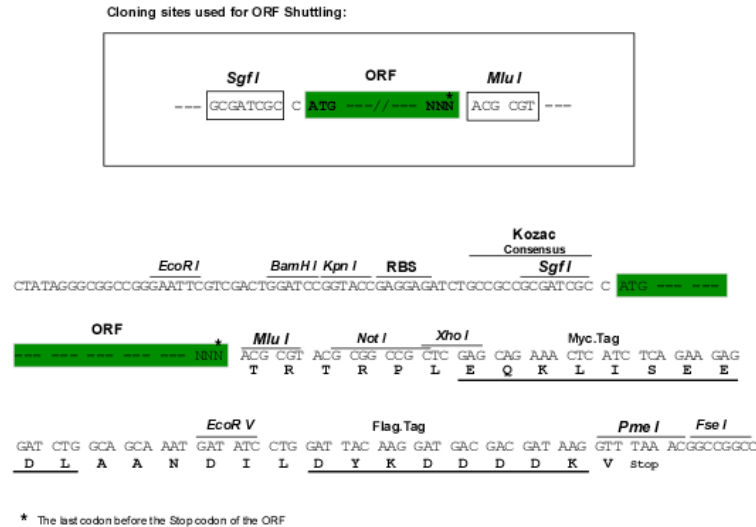
MTYGSPQANASPSDAVALDHGEVSRRQQQLPNMFGDLRSTFIALMIGSYASSAVTFPGIKLIYDAGVSF
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 SMRSAKEQVALQEGHKLCLSTVDLEVKQPDAAVAPSMHVSFSPILLLSLVTMCVTQLRLIFYMGAMNN
 ILKFLVSGDQKTVGLYTSIFVLQLLCLLTAPVIGYIMDWRLKECEDASEEPEEKDANQGEKKKKRDRQ
 IQKITNAMRAFAFTNLLLVGFGVTCLIPNLPLQILSFILHTIVRGFIHSAVGGLYAAVYPSTQFGSLTGL
 QSLISALFALLQQPLFLAMMGPLQGDPLWYNVGLLLL SLLGFCLPLYLICYRRQLERQLQQRQEDDKLFL
 KINGSSNQEAFV

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Restriction Sites:

SgfI-MluI

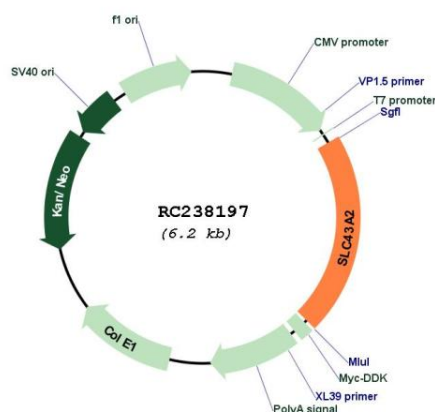
Cloning Scheme:



ACCN:	NM_001284499
ORF Size:	1296 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_001284499.1 , NP_001271428.1
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 RC238197