

Product datasheet for **RG206639**

SLC43A2 (NM_152346) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC43A2 (NM_152346) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG206639 representing NM_152346
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCCACCCTGGCCACTGCCCATCGGCGCCGCTGGTGGATGGCCTGCACGGCCGTGCTGGAGAACC
 TCCTCTTCTCGGCAGTCCTCCTGGGCTGGGGCTCGCTGCTCATCATGCTCAAGTCAGAGGGCTTTTACTC
 CTACCTGTGTACCGAGCCAGAGAATGTCACCAATGGCACAGTGGGCGGCACAGCAGAGCCGGGGCACGAG
 GAGGTGAGCTGGATGAACGGCTGGCTCAGCTGCCAGGCCAGGACGAGATGCTAAATTTGGCCTTCACTG
 TGGGCTCCTTTCTGCTCAGTGCCATCACCTGCCCTGGGTATCGTCATGGACAAGTATGGCCCGAGGAA
 GCTCAGGCTGCTGGCAGCGCTGCTTCGCGGTTTCTGCTTGTGATTGCGTACGGAGCAAGTAAACCA
 AACGCTCTCTCCGTGCTCATCTTCATCGCCCTGGCTCTGAATGGCTTTGGTGGGATGTGTATGACCTTCA
 CCTCATTAACTGCCAACATGTTCCGGCGACCTTCGGTCCACGTTTATTGCCTTGATGATTGGGTCCTA
 CGCTCCTCGGCAGTCACCTTTCCAGGAATCAAGCTCATCTATGATGCTGGTGTCTCCTTCATCGTCGTC
 CTGCTGGTCTGGGCGCGCTGCTCCGGGCTGGTTTTCTCAACTGCTTCTTAACTGGCCCTTGAGCCCT
 TCCCGGGGCCGGAGGACATGGACTACTCGGTGAAGATCAAGTTCAGCTGGCTGGGCTTTGACCACAAGAT
 CACAGGGAAGCAGTTCTACAAGCAGGTGACCACGGTGGGCGGCGCCTGAGTGTGGGCAGCTCCATGAGG
 AGTGCCAAGGAGCAGGTGGCGCTGCAGGAGGGCCACAAGCTGTGCTGTCCACCGTCGACCTGGAGGTGA
 AGTGCCAGCCGGATGCCGAGTGGCCCCCTCCTCATGCACAGCGTGTTCAGCCCCATCCTGCTGCTCAG
 CCTGGTACCATGTGCGTACGCAGCTGCGGCTCATCTTCTACATGGGGCTATGAACAACATCCTCAAG
 TTCCTGGTCAGCGGCGACCAGAAGACAGTTGGCCTACACCTCCATCTTCGCGCTGCTCCAGCTGCTGT
 GCCTGTGACGGCCCCCGTCATTGGCTACATCATGGACTGGAGGCTGAAGGAGTGAAGACGCCTCCGA
 GGAGCCCGAGGAGAAAGACGCCAACCAAGGCGAGAAGAAAAAGAAGAAGCGGGACCGGCAGATCCAGAAG
 ATCACTAATGCCATGCGGGCCTTCGCTTACC AACCTGCTGCTCGTGGGCTTTGGGGTGCCTGCCTCA
 TTCC AACCTGCCTCTCCAGATCCTCTCCTTATCCTGCACACAATCGTGCAGGATTATCCACTCCGC
 TGTCCGGGGCCTGTACGCTGCCGTGTACCCTCCACCCAGTTCGGCAGCCTCACGGGACTGCAGTCTCTG
 ATCAGCGCGCTTTCGCCCTTCTGCAGCAGCCGCTGTTTCTGGCCATGATGGGTCCTCTCCAGGGAGACC
 CTCTGTGGGTGAACGTGGGGCTGCTCCTTCTCAGCCTGCTGGGCTTCTGCCTCCCGCTCTACCTGATCTG
 CTACCGGGCCAGCTGGAGCGGCAGCTGCAGCAGAGGCAGGAGGATGACAACTCTTCTCAAAATCAAC
 GGCTCGTCCAACCAGGAGCCTTCGTG

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206639 representing NM_152346
 Red=Cloning site Green=Tags(s)

MAPTLATAHRRRWMACTAVLENLLFSVLLGWGSLIIMLKSEGFYSYLCTEPENVTNGTVGGTAEPGHE
 EVSWMNGWLSQQAQDEMLNLAFTVGSFLLSAITLPLGIVMDKYGPRKLRLLGSACFAVSCLLIAYGASKP
 NALSVLIFIALALNGFGMCMFTFTSLTLPNMFGLRSTFIALMIGSYASSAVTFPGIKLIYDAGVSFIVV
 LVVWAGCSGLVFLNCFNWPLEPFGPEDMDYSVKIKFSWLGFDPKHTGKQFYKQVTTVGRRLSVGSSMR
 SAKEQVALQEGHKLCLSTVDLEVKCQPDAAVAPSFMHVSFPIIIIIISLVTMCVTQLRLIFYMGAMNNILK
 FLVSGDQKTVGLYTSIFGVLQLLCLLTPVIGYIMDWRLKCEDASEEPEEKDANQGEKKKKRDRQIQK
 ITNAMRAFAFTNLLL VGFGVTCLIPNLPLQILSFI LHTIVRGIHSAVGGLYAAVYPSTQF GSLTGLQSL
 ISALFALLQQPLFLAMMGPLQGDPLWVNVGLLLL SLLGFCLPLYLICYRRQLERQLQQRQEDDKLFLKIN
 GSSNQAEAFV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_152346

ORF Size: 1707 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_152346.3](#)

RefSeq Size: 3024 bp

RefSeq ORF: 1710 bp

Locus ID: 124935

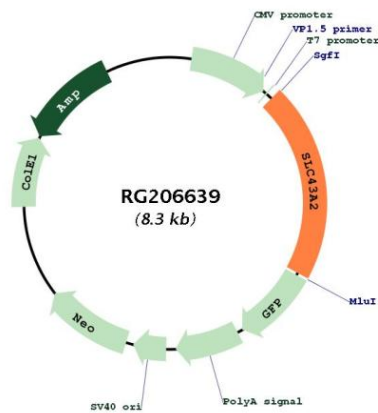
UniProt ID: [Q8N370](#)

Cytogenetics: 17p13.3

Protein Families: Transmembrane

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 RG206639