

Product datasheet for **MG208929**

Slc43a1 (BC053747) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc43a1 (BC053747) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc43a1
Synonyms:	PB39, R00504
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208929 representing BC053747
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCCCACGCTGAAGCAGGCGTACCGCAGGCGCTGGTGGATGGCTTGACCCGCTGTGGTGGAGAACC
 TCTTCTTCTCCGCGGTGCTCCTGGGCTGGGCTCCCTGCTGATCATGCTCAAGAAGGAAGGCTTCTATT
 CAGCCTGTGCCAGCTGAGAACAGGACCAATACCACCAAGATGAACAGCATCAGTGGACAGCTGTGAC
 CAGCAGGAAAAGATGCTCAACCTGGGTTTACCATTGGCTCCTTCTGCTGAGTGTACCACACTGCCTC
 TGGGAATTCTCATGGACCGCTTTGGGCCAGGCTCTTCGACTGGTGGCAGTGCCTGCTTGGCGCATC
 CTGCACCTAATGGCCTTGGCCTCCAGGGACACTGAAGTTTTGTCTCCATTGATATTCTGGCACTGTCC
 TTGAATGGATTTGCTGGCATCTGCTAACGTTTACCTCACTCACGCTGCCAACATGTTGGGAATTTGC
 GATCCACTTTTCATGGCCCTCATGATTGGCTCCTATGCGTCTTCTGCCATCAGTTCCTGGAATCAAGCT
 GATCTACGATGCCGGAGTCCCCTCACTGTCATCATGTTACATGGTCTGGCCTGGCCTGTCTCATCTTT
 TTGAAGTGTGCTCCTCAACTGGCCTGCAGAAGCCTTTCCTGCCCTGAGGAAGTTGACTACACGAAGAAGA
 TCAAACCTATTGGGTTAGCCTTGGACCACAAGGTACAGGTGACCGCTTCTACACCCATGTAAACATTGT
 GGGTCAGCGGTGAGTCAGAAGTCCCCAGCCTGGAGGAGGGCGCTGACGCTTTATTTTCATCCCCGGAT
 ATCCCTGGTACCTCAGAGGAGACTCCTGAAAAGTGTGCCCTTTTCGCAAGAGCCTCTGCTCCCCATTT
 TCCTGTGGAGCCTTGTACCATGGGCATGACCCAGCTTCGGGTCACTTTCTATATGGGTGCTATGAACAA
 GATCCTGGAGTTCATTGTGACTGGTGGCAAGGAACGTGAGACAAATGAGCAGAGACAGAAGTGGAGGAG
 ACAGTTGAGTTCCTACTCTCCATCTTTGGAGTCATGCAGCTGTTGTGCTTCTCACCTGCCCTCATTG
 GCTACATCATGGACTGGCGCATCAAGACTGTGTGGATGCTCAACGGAGGGCACCTGAATGAGAATGC
 TTCCTTTGGAGATGCCAGAGATGGGGCTAGCACCAAGTTCCTAGACCACGCTACCGCAAGGTACAAAAG
 CTCACCAATGCCATCAATGCCTTACCCTGACCAACATCCTGCTTGTGGGTTTCGGCATCGCCTGCCTCA
 TCAAGAACTTACACCTGCAGTTGCTGGCCTTTGTCTGCATACCATAGTTCGCGGTTTCTTCCACTCAGC
 CTGTGGAGGTCTCTACGCTGCTGTGCCCTTCCGTCATCAATTTTGGGACTGACAGGTCTCAGTCTCTC
 ATCAGTCCGTTGTTGCTCTGCTGCAACAGCTACTTTCATGGCCATGGTGGACCCCTGCATGGAGATC
 CCTTCTGGGTGAACCTGGGCTCCTACTTCTCTCGTTCCTGGGATTTCTCTACCTTCTACCTCTACTA
 CTACCGGCTCTCGCTGCAGAGAGATGCCACCAATTTGGTAGACCCACAGAAGGTGCTCAATACTTCG
 AAGGTGGCTACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208929 representing BC053747
 Red=Cloning site Green=Tags(s)

MAPTLKQAYRRRWMACTAVVENLFFSAVLLGWASLLIMLKKEGFYSSLCPAENRNTTQDEQHQWTS
 QQEKMLNLGFTIGSFLLSATTLPLGILMDRFGPRPLRLVGSACFAASCTLMALASRDTEVLSPLIFLALS
 LNGFAGICLFTSLTLPNMFNLRSTFMALMIGSYASSAITFPGIKLIYDAGVPTVIMFTWSGLACLIF
 LNCALNWPAAEFPAPEEVDYTKIKLIGLALDHKVTGDRFYTHVTIVGQRLSQKSPSLEEGADAFISSPD
 IPGTSEETPEKSVPRKSLCSPIFLWSLVTMGMTQLRVIFYMGAMNKILEFIVTGKERETNEQRQKVEE
 TVEFYSSIFGVMQLLCLLTCPLIGYIMDWRIKDCVDAPTEGLNENASFGDARDGASTKFTRPRYRKVQK
 LTNAINAFTLTNILLVGFIACLKNLHLQLLAFVLHTIVRGFFHSACGGLYAAVFPNSHFGLTGLQSL
 ISAVFALLQQLLFMAMVGPLHGDPFVWNLGLLLLSFLGFLLPYLYYRSRLQREYATNLVDPQKVLNTS
 KVAT

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC053747

ORF Size: 1694 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: [BC053747](#), [AAH53747](#)

RefSeq Size: 2507 bp

RefSeq ORF: 1694 bp

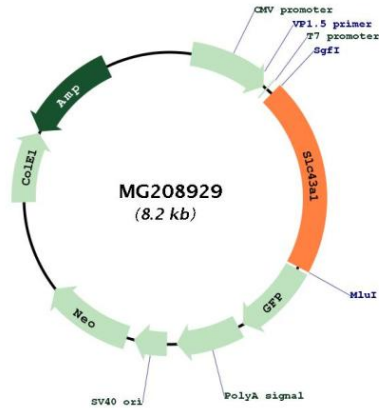
Locus ID: 72401

Cytogenetics: 2 D

Gene Summary:

Sodium-independent, high affinity transport of large neutral amino acids. Has narrower substrate selectivity compared to SLC7A5 and SLC7A8 and mainly transports branched-chain amino acids and phenylalanine (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG208929