

Product datasheet for **MG205257**

Slc7a6 (BC038404) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc7a6 (BC038404) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Slc7a6
Synonyms: LAT3, LAT-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205257 representing BC038404
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAGCACAGGAGCTTGGGAGCCCCACACCCACCTACCATCTTCTCCCAAAGCCAACCAGCACACTG
 TAAAAGAAGATGCCGGCTCACCATCTCAAGGGTCTCCAGAAACGATGCAGCTGAAGAAGGAGATCTCCTT
 GCTGAACGGGGTCAGCCTGGTGGTGGGCAACATGATTGGCTCAGGGATCTTTGTCTCACCGAAGGGTGC
 CCAAGTACACTGCTTCCTATGGGTGTCACCTATAGTGTGGCCATTGGTGGGCTTTCTGTCTGTCTGG
 GTGCCCTTGGCTATGCAGAACTGGGACCACCATCACCAATCAGGGGCTAGCTATGCTTATATTCTAGA
 GGCTTCGGGGCTTCATTGCCTTATCCGTCTGTGGTCTCACTTCTAATTGTTGAGCCACCAGTCAG
 GCCATCATCGCCATCACCTTTGCCAACTATATCATCAAGCCCTCCTCCCACTGTGATCCTCCATATG
 TGGCCTGCCGTCTCCTCGCTGCTGCCTGCGTATGTCTGCTGACATTTGTGAACTGTGCCTACGTCAGTG
 GGGCACACGAGTACAAGACACATTCACGTATGCCAAGGTCCTGGCACTCATTGCCATCATTATCATGGGC
 CTTGTTAACTGTGTCAAGGACACACTGAGCACTTTCAGGACGCCTTAAAGGTTCTCGTGAATGTGG
 GAGACCTCTCTTGGCCTGACTCTGCCCTCTCTCTACTCAGGTTGGGACACCCTTAATTTTGTAAAC
 AGAAGAAATCAAAAACCCAGAAAGGAATTTGCCCTTGGCATTGGGATTCTATGCCAATTGTGACACTG
 ATCTACATCCTGACCAACGTGGCCTATTACACAGTGTGAACATTCAGGATGCCAATGAGAGTGACGCTG
 TGGCTGTGACATTTGCTGACCAGACATTCGGCATGTTCAAGTTGGACCATCCCATTGCTGTTGCTCTGTC
 CTGCTTCGGGGCCTAAATGCATCCATCTTTGCTTCATCAAGGTTGTTTTTCGTGGGCTCTCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205257 representing BC038404
Red=Cloning site Green=Tags(s)

MEAQELGSPPTTYHLLPKANQHTVKEDAGSPSQGSPETMQLKKEISLLNGVSLVVGNMIGSGIFVSPKGV
 LKYTASYGLSLIVWAIGGLFSVVGALCYAELGTTITKSGASYAYILEAFGGFIAFIRLWVSL LIVEPTSQ
 AIIAITFANYI IKPSFPTCDPPYVACRLLAAACVCLLTFVNCAYVKWGRVQDTFTYAKVLALIAIIMG
 LVKLCQGHTEHFQDAFKGSSWNVGDLSLALYSALFYSYSGWDTLNFVTEEIKNPERNLPLAIGISMPIVTL
 IYILTNVAYYTVLNIQDVHKSDAVAVTFADQTFGMFSWTIPIAVALSCFGGLNASIFASSRLFFRGLS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC038404

ORF Size: 1046 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: [BC038404](#), [AAH38404](#)

RefSeq Size: 3028 bp

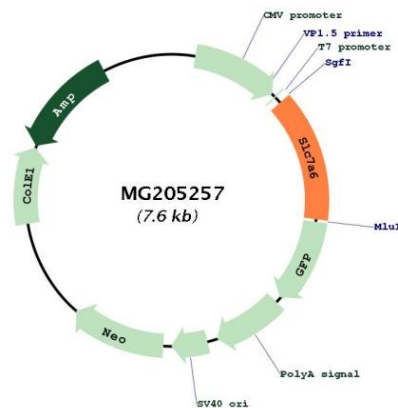
RefSeq ORF: 1046 bp

Locus ID: 330836

Cytogenetics: 8 D3

Gene Summary: Involved in the sodium-independent uptake of dibasic amino acids and sodium-dependent uptake of some neutral amino acids. Requires coexpression with SLC3A2/4F2hc to mediate the uptake of arginine, leucine and glutamine. Also acts as an arginine/glutamine exchanger, following an antiport mechanism for amino acid transport, influencing arginine release in exchange for extracellular amino acids. Plays a role in nitric oxide synthesis via transport of L-arginine. Involved in the transport of L-arginine in monocytes. Reduces uptake of ornithine in retinal pigment epithelial cells (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205257