

Product datasheet for **MR207394**

Slc38a7 (NM_172758) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc38a7 (NM_172758) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc38a7
Synonyms:	D430050E18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207394 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGCCCAGGTCAGCATCAACAGTGAACAGCGGCGAGTGGGCTTCCAGCACTGATGCTGGGGAGCGGG
 CCCGTTTGTCTCCAAAGTCCCTGTGTGGACGTGGTACCTAAGAGTGAGGGGAGGCGTCTCCTGGAGATCC
 AGACAGCGGCACCACTTCGACCCCTTGGAGCCGTCTTCATCGTCGTCATGCGCTGCGGTGCGGGTCTG
 CTCAACTTCCCAGCAGCCTTCAGCACTGCTGGGGCGTGGCAGCTGGCATCGCCCTGCAGATGGGCATGC
 TGGTTTTATCATCAGTGGGCTGGTCACTTCTGGCCTACTGCTCTCAAGCCAGCAATGAGAGGACCTACCA
 GGAGGTGGTGTGGCCGTGTGTGCAAGCTGACAGGTGTGTGTGAGGTAGCCATTGCGGTCTATACC
 TTCGGAACCTGCATCGCCTTCTCATCATTATTGGGGACCAGCAGGACAAGATTATAGTTGTGATGTCGA
 AGGAGCCGGATGGGGCCAGCGGCAGCCCTGGTACACAGACCGCAAGTTCACCATCAGTCTTACCGCCTT
 CCTCTTCATCCTGCCCTGTCCATCCCCAAGGAGATTGGCTTCCAGAAATATGCCAGCTTCTGAGCGTC
 GTGGGCACCTGGTACGTACCGCCATTATAATCATCAAATACATCTGGCCAGATAAAGAGATGCGCCCGG
 GGGACATCTTGACTAGACCAGCGTCTGGATGGCTGTGTCAACGCCATGCCACCATCTGCTTTGGATT
 TCAGTGTGATGTGAGTAGTGTACCCGTCTTCAACAGCATGCGGCAGCCGGAAGTAAAGACCTGGGGCGGA
 GTGGTGACGGCTGCCATGGTCAAGCTCTGGCTGTCTACATGGGCACAGGCATCTGTGGCTTCTAACCT
 TTGGAGCTGTGTGGACCCGACGTGCTCCGGTCTACCCCTCAGAGGACGTGGCTGTGGCCGTTGCCCG
 AGCCTTCATCCTGAGTGTGCTCACCTCTTATCCATCCTGCATTCTGTGGGCGGGTGTGGTGAA
 GGCCTGTGGCTGCGCTACAAGGGGATGCCCGTGGAGGAGGATGTGGCCGGGAGCGCCGGCGCCGGTCC
 TGCAGACGCTGGTGTGGTCTGCTAACCTTGTCTACTGGCGCTCTTATCCCTGACATTGGCAAGTCAAT
 CTCGGTCATCGGAGGCCCTGGCAGCCTGCTTCATCTTCATCTTCCAGGGCTGTGCCTCATTCAAGCCAAA
 CTATCAGAGATGGAGGAGGTCAAACCTGCCAGCTGGTGGCACTGGTCAGTTACGGAGTCTTCTGGTCA
 CATTGGGAGCCTTCATCTTCGGCCAGACCAGCCAATGCCATTTTGTGGATCTCTTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207394 protein sequence
 Red=Cloning site Green=Tags(s)

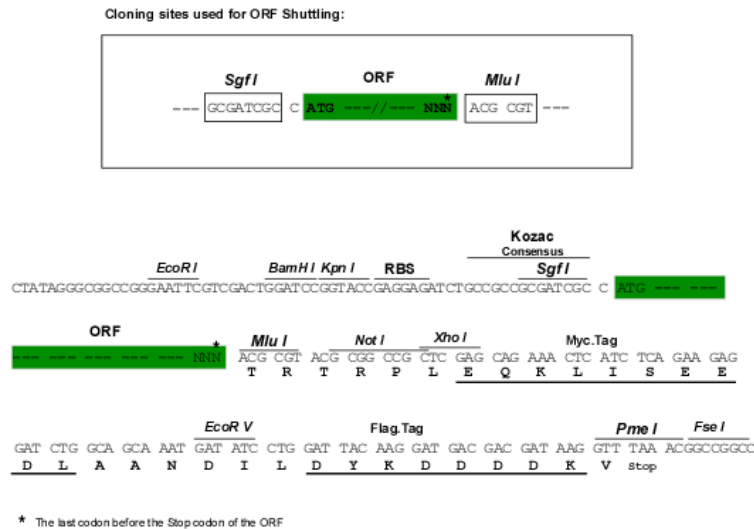
MAQVSINSDYSGEWASSTDAGERARLLQSPCVDVVPKSEGEASPGDPDSGTTSTLGAVFIVNACLGAGL
 LNFPAAFSTAGGVAAGIALQMGLVFIISGLVILAYCSQASNERTYQEVVWAVCGKLTGVLCEVAIAVYT
 FGTCIAFLIIIGDQQDKIIVMSKEPDGASGSPWYTDKFTISLTAFLFILPLSIPKEIGFQKYASFLSV
 VGTWYVTAIIIIKYIWPDKEMRPGDILTRPASWMAVFNAMPTICFGFQCHVSSVPVFNMRQPEVKTWGG
 VVTAAMVIALAVYMGTCGFLTFGAAVDPDLRSYPSEDVAVAVARAFIILSVLTSYPILHFCGRAVVE
 GLWLRYKGMPVEEDVGRERRRRVLQTLVWFLLTLLALFIPDIGKVISVIGGLAACFIFIFPGLCLIQAK
 LSEMEEVKPASWWALVSYGVLLVTLGAFIFGQTTANAFVDLLA

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_172758

ORF Size: 1392 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_172758.1](#), [NM_172758.2](#), [NM_172758.3](#), [NM_172758.4](#), [NP_766346.1](#)

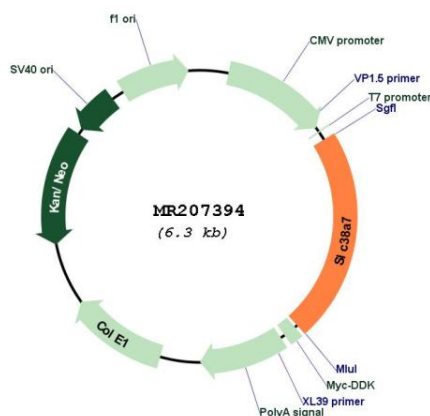
RefSeq Size: 3282 bp

RefSeq ORF: 1392 bp

Locus ID: 234595

UniProt ID:	<u>Q8BWH0</u>
Cytogenetics:	8 D1
MW:	50 kDa
Gene Summary:	Mediates sodium-dependent transport of amino acids. Substrate preference is ranked l-glutamine > l-histidine > l-serine > l-alanine > l-asparagine > l-aspartic acid > l-glutamic acid > l-methionine > l-leucine > l-glycine.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207394