

Product datasheet for **RC210195**

SLC38A4 (NM_018018) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC38A4 (NM_018018) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC38A4
Synonyms:	ATA3; NAT3; PAAT; SNAT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210195 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATCCCATGGAAGTGAAGAAATGTCAACATCGAACCAGATGATGAGAGCAGCAGTGGAGAAAGTCTC
 CAGATAGCTACATCGGGATAGGAAATTCAGAAAAGGCAGCAATGAGCAGTCAATTTGCTAATGAAGACAC
 TGAAGTCAAGAAATTCCTGACAAATGGATTTTGGGAAAAAGAAGCTGGCAGATTATGCCGATGAACAC
 CATCCCGAACCCTTCTTTGGAATGTCTTCAATTAACCTGAGTAATGCCATCATGGGCAGTGGGATCC
 TGGGCTTGTCTATGCCATGGCCAACACAGGGATCATACTTTTTATAATCATGCTGCTTGTGTGGCAAT
 ATTACTCTGTATTCAGTTCACCTTTTATAAAAACAGCCAAGGAAGGAGGTCTTTGATTTATGAAAA
 TTAGGAGAAAAGGCATTTGGATGGCCGGGAAAAATGGAGCTTTTGTTCATTACAATGCAGAACATTG
 GAGCAATGTCAAGCTACCTTTTATCATTAAATATGAACTACCTGAAGTAATCAGAGCATTATGGGACT
 TGAAGAAAATACTGGAGAATGGTACCTCAATGGCAACTACCTCATATTTGTGTCTGTTGGAATTATT
 CTCCACTTTTCGCTCCTTAAAAATTTAGGTTATCTTGGCTATACCAAGTGGATTTTCTCTTACCTGCATGG
 TGTTTTTTGTTAGTGTGGTGATTACAAGAAATCCAAATACCCTGCCCTCTACCTGTTTTGGATCACAG
 TGTTGGAATCTGTCAATCAACAACACGCTTCCAATGCATGTGGTAATGTTACCCAACAACCTCTGAGAGT
 TCTGATGTGAAGTTCATGATGGATTACACCCACCGCAATCCTGCAGGGCTGGATGAGAACCAGGCCAAGG
 GCTCTCTCATGACAGTGGAGTAGAATATGAAGCTCATAGTGTGACAAGTGTGAACCAAACTATTTGT
 ATTCAACTCCCGGACGGCCTATGCAATTCCTATCCTAGTATTTGCTTTTGTATGCCACCTGAGGTCCTT
 CCCATCTACAGTGAAGTAAAGATCGGTCCCGGAGAAAAATGCAAACGGTGTCAAATATTTCCATCACGG
 GGATGCTTGTGATGACCTGCTTGGCCCTCTTTGGTTACCTAACCTTCTATGGAGAAGTTGAAGATGA
 ATTAAGTTCATGCCTACAGCAAAGTGTATACATTAGACATCCCTCTTCTCATGGTTCCGCTGGCAGTCCTT
 GTGGCAGTAACTAACTGTGCCATTGCTCTTCCCAATTCGTACATCAGTATCACACTGTTATTTTC
 CCAAACGACCTTTCAGCTGGATACGACATTTCTGATTGCAGCTGTGCTTATTGCACTTAATAATGTTCT
 GGTATCCTTGTGCCAATAAAAATACATCTTCGGATTCATAGGGGCTTCTTCTGCCACTATGCTGATT
 TTTATTCTCCAGCAGTTTTTATCTTAACTTGTCAAGAAAGAACTTTTAGGTCACCCAAAAGGTGCG
 GGGCTTAATTTCTTGTGGTTGGAATATTCTCATGATTGGAAGCATGGCACTCATTATAATTGACTG
 GATTTATGATCCTCAAATTCGAAGCATCAC

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>RC210195 protein sequence
 Red=Cloning site Green=Tags(s)

MDPMELRNVNIEPDESSGESAPDSYIGIGNSEKAAMSSQFANEDTESQKFLTNGLFGKKKLADYADEH
 HPGTTSFGMSSFNLSNAIMGSGILGLSYAMANTGIILFIIMLLAVAILSLYSVHLLKTAKEGGSIIYEK
 LGEKAFGWPGKIGAFVSIQNIQAMSSYLFIIKYELPEVIRAFMGLLEENTGEWYLNQNYLIIIFVSVGII
 LPLSLLKNLGYLGYTSGFSLTCMVFFVSVVIYKFKQIPCLPVLDSVGNLSFNNTLPMHVVMLPNNSES
 SDVNFMMDYTHRNPAGLDENQAKGSLHDSGVEYEAHSDDKCEPKYVFNSRTAYAIPIILVFAFVCHPEVL
 PIYSELKDRSRKMQTVSNISITGMLVMYLLAALFGYLFYGEVEDELLHAYSKVYTLDIPLLMVRLAVL
 VAVTLTVPIVLPFIRTSVITLLFPKRPFWSIRHFLIAAVLIANNVILVPTIKYIFGFIGASSATMLI
 FILPAVFYKLVKKETFRSPQKVGALIFLVVGIFFMIGSMALIIIDWIYDPPNSKHH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_018018

ORF Size: 1641 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: [NM_018018.5](#)

RefSeq Size: 3999 bp

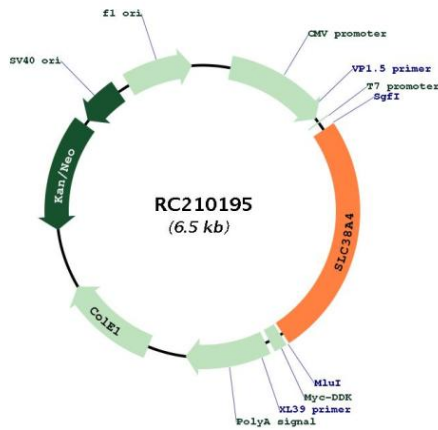
RefSeq ORF: 1644 bp

Locus ID: 55089

UniProt ID: [Q96916](#)

Cytogenetics: 12q13.11
Domains: Aa_trans
Protein Families: Transmembrane
MW: 60.8 kDa
Gene Summary: SLC38A4 is found predominantly in liver and transports both cationic and neutral amino acids. The transport of cationic amino acids by SLC38A4 is Na(+) and pH independent, while the transport of neutral amino acids is Na(+) and pH dependent (Hatanaka et al., 2001 [PubMed 11342143]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC210195