

Product datasheet for **MR230693**

Slc7a3 (NM_001301840) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a3 (NM_001301840) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc7a3
Synonyms:	Atr; Atrc3; Cat; CAT-3; CAT3; SLC; SLC7A1; SLC7A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230693 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTGGCAGGCACCTTCAAGATTTGGTCAAAGCTGGTGCAGGACGTGTGTTGGAGCTGGGTATGG
 GTGAGACCCGCTTGCCAGATGCCTGAGCACCTCGACTTAGTGCTCTGGGTGTGGGCAGCACATTAGG
 TGCAGGTGTATGTCCTGGCTGGAGAGGTGGCCAAAGATAAAGCAGGACCATCCATTGTGATCTGCTTT
 TTGGTGGCTGCTCTGCTCTGTGTTGGCTGGACTGTGTATGCTGAATTTGGTCCCGGGTCCCGGGCT
 CTGTTTCTGCATATCTCTACAGTTATGTCACCGTAGGTGAACCTCTGGCCCTTACCACCGGCTGGAATCT
 CATTCTCTCTACGTATTGGTACAGCCAGTGTGGCCCGGGCTTGGAGCTCTGCTTTTGACAACCTGATT
 GGAACCACATCTCTCGACTCTGAAGGGGACCATCTTGTGAAGATGCCTCATGTTCTTGCAGAATATC
 CAGATTTCTTGGCCTTGGCCCTTGTGTTGCTGCTCACTGGATTGTGGTTTTAGGGGCAAGTAAATCAGC
 CCTGGTTACCAAAGTGTTCACAGGGATGAACCTTTTGGTTCTCAGCTTTGTCATCATCTCTGGCTTCA
 AAGGGAGAAGTGAAGAACTGGAAGCTCACGAAAGAGGACTATTGCTTGACCATGAGTGAATCCAACGGCA
 CTTGTAGCTTGGACTCTATGGGCTCTGGAGGTTTCATGCCTTTTGGCTTGAAGGGATTCTCCGTGGCGC
 TGCTACCTGTTTCTATGCCTTCGTTGGTTTTGACTGTATTGCAACCACCGGAGAAGAGGCTCAGAATCCC
 CAGCGCTCCATCCCCATGGGATTTGTGATCTCGATGTTTCATCTGCTTTTTGGCTTACTTTGGTGTGCTT
 CAGCACTACCCTCATGATGCCTTACTACAAGTTCATCTGAGAGCCCTCTGCCTGAAGCATTTTCCTA
 TGTTGGCTGGGAGCCTGCCCGCTACTTGGTGGCTATTGGCTCCCTCTGTGCACTTCTACTAGCCTTTTG
 GGCTCTATGTTTCTATGCCTCGGGTGATGTATCAATGGCAGAAGATGGCCCTCTGTTCCGTGTCCTTG
 CTAAGGTTACAGTGTACACATATACCCATTGTGGCCACCTTGGTATCTGGTATTGAGCAGATTTCAT
 GGCAATTCCTCTTGAACCTCACTGACCTCGTGGACCTCATGTCAATCGGGACTCTGCTTGGCTCACTCCCTG
 GTGTCCATTTGTGTTCTCATCTCAGATATCAGCCTGATCAGGAAATGAAGAGTGTGAAGAGGAAATGG
 AATTGCAAGAGGAGACACTTGAAGCAGAGAAGCTGACTGTCCAGGCTCTATTTTGTCTGTCAACTCCAT
 CCCCACACTCCTTTCTGGCCGAGTTGTCTATGTTTGTCTCTCACTGCTTGGCCGACTACTAACTGTTCTT
 TGCCTGGTGTGACCTGGTGGACAACCTCCACTTCGTTCTGGAGACCCAGTGTGGTCCAGTGGTTGTGC
 TGATCCTGGGGCTCATTCTTGAATTTCTGGGTCATCTGGAGACAGCCACAGAACCGCACTCCCCTTCA
 CTTAAGGTGCCTGCTGTTCTCTACTCCACTGGTGGATCTTGTGAATGTTACCTGATGATGCAA
 ATGACAGCTGGCACTTGGCCCGATTGGGATCTGGATGCTGATTGGATTGCTATCTACTTTGGCTATG
 GGATCCAACACAGTATGAAAGAAGTTAAGAATCATCAAACCTACCCAAAACAAGGGCCCAAACATAGA
 CCTTGATCTCACAACTTCTGTGTTACAGCATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

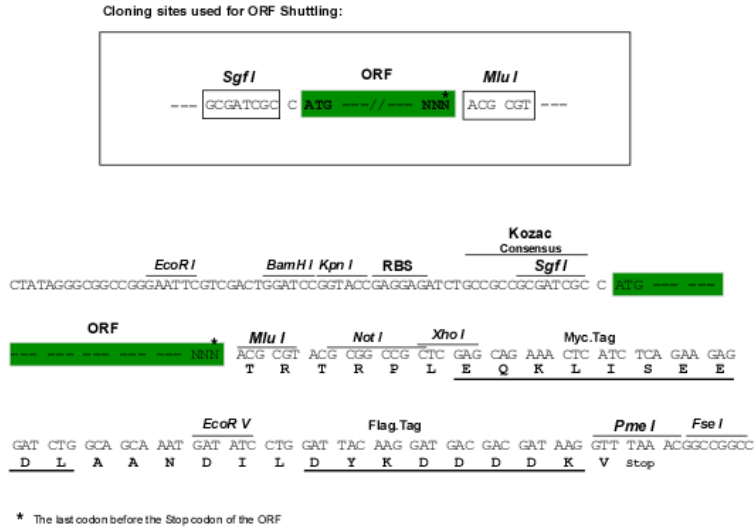
>MR230693 protein sequence
 Red=Cloning site Green=Tags(s)

MLWQALRRFGQKLVRRRVEELGMGETRLARCLSTLDLVALGVGSTLGAGVYVLAGEVAKDKAGPSIVICF
 LVAALSSVLAGLCYAEFGARVPGSGSAYLYSYVTVGELWAF TTGWNLILSYVIGTASVARAWSSAFDNL I
 GNHISRTLKGTILLKMPHVLAEYPDFFALALVLLL TGLLVLGASKSALVTKVFTGMNLLVLSFV IISGFI
 KGELRNWKLTKEDYCLTMSENGTCSLDSMGGFMPFGLLEGILRGAATCFYAFVGFDCIATTGEEAQNP
 QRSIPMGIVISMFICFLAYFGVSSALTLMPYK LHPESPLPEAFSYVWEPARYLVAIGSLCALSTSL L
 GSMFMPRMYSMAEDGLLFRVLAKVHSVTHIPIVATLVSGVIAAFMAFLFELDLV DLMISIGTL LAHSL
 VSI CVLILRYQPDQEMKSV EEEEMELQEETLEAEKLT VQALFCPVNSIPTLLSGRVVYVCSLLAVLLTVL
 CLVLTWTTPLRSGDPVWVTVVVLILGLILAISGVIWRQPQNRTPLHFKVPAVPLLPVSI FVNVYLM MQ
 MTAGTWARFGIWMLIGFAIYFGYGIQHSMEVKNHQTL PKTRAQTIDLDLTTSCVHSI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001301840

ORF Size: 1857 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_001301840.1](#), [NP_001288769.1](#)

RefSeq Size: 2277 bp

RefSeq ORF: 1857 bp

Locus ID: 11989

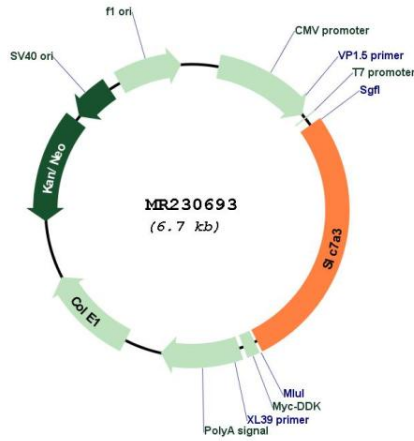
UniProt ID: [P70423](#)

Cytogenetics: X C3- D

MW: 67.5 kDa

Gene Summary: The protein encoded by this gene is a member of the system y⁺ cationic amino acid transporter family. Proteins of this family allow uptake of arginine from extracellular media. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]

Product images:



Circular map for MR230693