

Product datasheet for **RC207420**

SLC7A3 (NM_001048164) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SLC7A3
Synonyms:	ATRC3; CAT-3; CAT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC207420 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

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 TGCAGGCGTGTATGCTCCTAGCTGGCGAGGTGGCCAAAGATAAAGCAGGGCCATCCATTGTGATCTGCTTT
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 AGACCTTGATCCCGCACTCTCTATGTCCACTCAGTT

ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC207420 protein sequence
 Red=Cloning site Green=Tags(s)

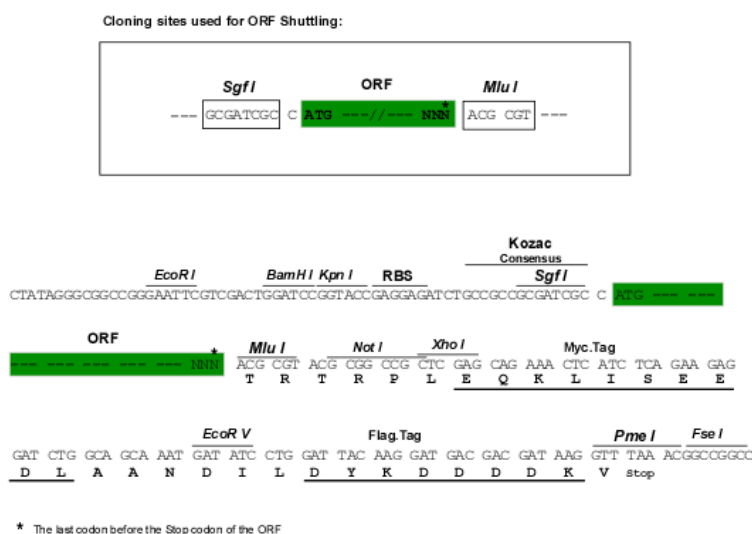
MPWQAFRRFGQKLVRRTLESMAETRLARCLSTLDLVALGVGSLGAGVYVLAGEVAKDKAGPSIVICF
 LVAALSSVLAGLCYAEFGARVPRSGSAYLYSYVTVGELWAFITGWNLILSYVIGTASVARAWSSAFDNL
 GNHISKTLQGSIALHVPVLAIEYDFFALGLVLLTGLLALGASESALVTRVFTGVNLLVLGFVMISGFV
 KGDVHNWKLTEEDYELAMAELNDTYSGLPLSGGFPVFGFEGILRGAATCFYAFVGFDCIATTGEEAQN
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 GSMFMPRVIYAMAEDGLLFRVLARIHTGRTPIIATVVSIGIIAFAFMAFLFKLTDLVLMISGTLTLLAYSL
 VSICVLILRYQPDQETKTGEEVELQEEAITTESEKLTLWGLFFPLNSIPTPLSGQIVYVCSLLAVLLTA
 LCLVLAQWSVPLLSGDLVWTAVVLLLLLIIGIIVVIWRQPQSSTPLHFKVPALPLPLMSIFVNIYLM
 QMTAGTWARFGVWMLIGFAIYFGYGIQHSLEEIKSNQPSRKSRAKTVLDLPGTLYVHSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6517_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM 001048164

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

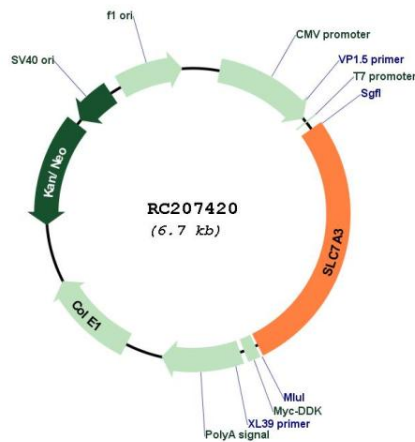
RefSeq: NM_001048164.3

RefSeq Size: 2265 bp

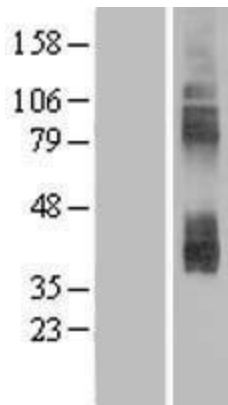
RefSeq ORF:	1860 bp
Locus ID:	84889
UniProt ID:	Q8WY07
Cytogenetics:	Xq13.1
Protein Families:	Druggable Genome, Transmembrane
MW:	67.2 kDa

Gene Summary: This gene encodes a member of the solute carrier family 7. The encoded protein is a sodium-independent cationic amino acid transporter. Alternate splicing results in multiple transcripts that encoded the same protein.[provided by RefSeq, May 2010]

Product images:



Circular map for RC207420



Western blot validation of overexpression lysate (Cat# [LY409930]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC211933] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).