

Product datasheet for **RC224871**

SLC7A2 (NM_003046) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC7A2 (NM_003046) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC7A2
Synonyms:	ATRC2; CAT2; HCAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC224871 representing NM_003046
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGATAGAAACAAGTGGTTATAACTCAGACAACTAATTTGTCGAGGTTTATTGGAACACCTGCC
 CACCGTTTTCGACAGCAAGTTTCTCCTGTCGCCTTCGTGACAGCTCAGAATGATTCCTTGACAGCCGC
 GCTGACCTTTGCCGATGCTGATCCGGAGAAAAATCGTGACCCTGGACAGTCTAGAAGACCAATTA
 TGCCGCTGCTTATCCACCATGGACCTCATTGCCCTGGCGTTGGAAGCACCTTGGGGCCGGGTTATG
 TCCTCGTGGGGAGGTGGCAAGGCAGACTCGGGCCCCAGCATCGTGGTGTCTTCTCATTGCTGCCCT
 GGCTTCAGTGATGGCTGGCCTCTGCTATGCCGAATTTGGGGCCCGTGTCCCAAGACGGGTCTGCATAT
 TTGTACACCTACGTGACTGTGGAGAGCTGTGGCCTTCATCACTGGCTGGAATCTCATTTTATCGTATG
 TGATAGGTACATCAAGTGTGCAAGAGCCTGGAGTGGCACCTTTGATGAACCTCTTAGCAACAGATTGG
 TCAGTTTTTGGAGACATACTTCAGAATGAATTACTGGTCTTGAGAATATCCCGATTTTTTGTGTG
 TGCCCTTATATTACTTCTAGCAGGCTTTTTGTCTTTGGAGTAAAAGAGTCTGCTGGGTGAATAAAGTCT
 TCACAGCTGTTAATATTCTGCTCCTTCTGTTTGTGATGTTGCTGGGTTTGTGAAAGGAAATGTGGCAA
 CTGGAAGATTAGTGAAGAGTTTCTCAAAAATATATCAGCAAGTCCAGAGAGCCACCTTCTGAAAACGGA
 ACAAGTATCTATGGGGCTGGTGGCTTTATGCCCTTATGGCTTACGGGAACGTTGGCTGGTCTGCAACT
 GCTTTTATGCCTTTGTTGGGATTTGACTGCATTGCAACAACCTGGTGAAGAAGTTCGGAATCCCCAGAAAGC
 TATCCCATTTGGAATTTGACGCTTTGCTTGTGTTGCTTATGGCCTATTTGGGGTCTCTGCAGCTTTA
 ACATTTATGATGCCGACTACCTCCTCGATGAAAAAGCCCCCTCCTGTAGCGTTTGAATATGTGGGAT
 GGGGCTGCCAAATATGTCGTCGAGCTGGTTCTCTCTGCGCCTTGCAACAAGTCTTCTGGGCTCTAT
 GTTTCCTTTACCCCGAATTCGTTTGCATGGCCCGGGATGGCTTACTGTTTAGATTTCTTGCCAGAGTG
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 GCATGCCGACCCTCTTCTGCCCCCTCTTCTGCCAACACAGCAGTCAGCTTCTCTCGTGAGCTTTCTGGT
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 CATCTTGGTGAACATTTACTTGATGGTCCAGTTAAGTGCAGACACTTGGGTGAGATTCAGCATTTGGATG
 GCAATTGGCTTCTGATTTACTTTTCTTATGGCATTAGACACAGCCTGGAGGGTCATCTGAGAGATGAAA
 ACAATGAAGAAGATGCTTATCCAGACAAGTTCATGCAGCAGCAGAAGAAAAATCTGCCATTCAAGCAAA
 TGACCATCACCAAGAAATCTCAGTTCACCTTTCATATTCATGAAAAGACAAGTGAATTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224871 representing NM_003046
Red=Cloning site Green=Tags(s)

MKIETSGYNSDKLICRFIGTPAPPVCDKFLSPSSDVRMIPCRAALTFARCLIRRKIVTLDLSLEDTKL
 CRCLSTMDLIALGVGSTLGAGVYVLAGEVAKADSGPSIVVSFLIAALASVMAGLCYAEFGARVPKTSAY
 LYTYVTVGELWAFITGWNLILSYVIGTSSVARAWSGTFDELLSKQIGQFLRTYFRMNYTGLAEYPDFFAV
 CLILLLAGLLSFGVKESAWVNKVF TAVNILLVLLFVMVAGFVKGNVANWKISEEFLKNISASAREPPSENG
 TSIYGAGGFMPYGF TGLAGAATCFYAFVGFDCIATTGEEVRNPQKAIPIGIVTSLLVCFMAYFGVSAAL
 TLMMPYLLDEKSPLPVAFEYVWGPAKYVVAAGSLCALSTSLGSMFPLPRILFAMARDGLLFRFLARV
 SKRQSPVAATLTAGVISALMAFLFDL KALVDMMSIGTLMAYSLVAACVLILRYQPGLSYDQPKCSPEKDG
 LGSSPRVTSKSESQVTMLQRQGF SMRTLFCPSLLPTQQSASLVSVL VGFLAFLV LGLSVL TTYGVHAITR
 LEAWSLALLALFVLVFAIVLTIWRQPQNQKVAFMVPFLPFLPAFSILVNIYLMVQLSADTWVRF SIWM
 AIGFLIYFSYGI RHSLEGLR DENNEEDAYPDNVHAAAEKSAIQANDHHPNLS S PFI HEKTSEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8073_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003046

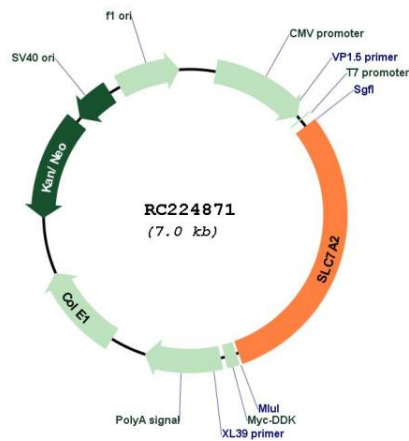
ORF Size: 2091 bp

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:	<ol style="list-style-type: none"> 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_003046.6
RefSeq Size:	7577 bp
RefSeq ORF:	2094 bp
Locus ID:	6542
UniProt ID:	P52569
Cytogenetics:	8p22
Protein Families:	Druggable Genome, Transmembrane
MW:	75.8 kDa
Gene Summary:	The protein encoded by this gene is a cationic amino acid transporter and a member of the APC (amino acid-polyamine-organocation) family of transporters. The encoded membrane protein is responsible for the cellular uptake of arginine, lysine and ornithine. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RC224871