

Product datasheet for **RC210214**

SLC7A2 (NM_001008539) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC7A2 (NM_001008539) 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)



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ORF Nucleotide
Sequence:

>RC210214 representing NM_001008539
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGATTCTTGCAGAGCCGCGCTGACCTTTGCCGATGTCTGATCCGGAGAAAAATCGTGACCCTGGACA
 GTCTAGAAGACACCAAATTATGCCGCTGCTTATCCACCATGGACCTCATTGCCCTGGGCGTTGGAAGCAC
 CCTTGGGCGCGGGTTTATGTCCTCGCTGGGGAGGTGGCCAAGGCAGACTCGGGCCCCAGCATCGTGGTG
 TCCTTCTCATTGCTGCCTGGCTTCACTGATGGCTGGCCTCTGCTATGCCGAATTTGGGCCCCGTGTTT
 CCAAGACGGGGTCTGCATATTTGTACACCTACGTGACTGTGAGAGCTGTGGCCTTCACTACTGGCTG
 GAATCTCATTTTATCGTATGTGATAGGTACATCAAGTGTGCAAGAGCCTGGAGTGGCACCTTTGATGAA
 CTTCTTAGCAAACAGATTGGTCAGTTTTGAGGACATACTCAGAATGAATTACTGGTCTTGCAGAAT
 ATCCCGATTTTTTGTGTGTGCCTTATATTCTTAGCAGGTCTTTTGTCTTTGGAGTAAAAGAGTC
 TGCTTGGGTGAATAAAGTCTTACAGCTGTTAATATTCTCGTCTTCTGTTTGTGATGGTGGCTGGTTT
 GTGAAAGGAAATGTGGCAAACCTGGAAGATTAGTGAAGAGTTTCTCAAAAATATATCAGCAAGTGCCAGAG
 AGCCACCTTCTGAAAACGGAACAAGTATCTATGGGGCTGGTGGCTTTATGCCCTTATGGCTTACGGGAAC
 GTTGGCTGGTGTGCAACTTGTCTTTATGCCCTTGTGGGATTTGACTGCATTGCAACAACCTGGTGAAGAA
 GTTCGGAATCCCCAGAAAGCTATCCCATTTGGAATTGTGACGTCTTTGCTTGTGTTGCTTTATGGCCTATT
 TTGGGGTCTCTGCAGCTTAACTTATGATGCCGTAACCTCCTCGATGAAAAAGCCCCCTTCTGT
 AGCGTTTGAATATGTGGGATGGGGTCTGCCAAATATGTCGTGCGAGCTGGTTCTCTGCGCCTTGCA
 ACAAGTCTTCTGGATCCATTTCCCAATGCCTCGTGAATCTATGCTATGGCGGAGGATGGGTTGCTTT
 TCAAATGTCTAGCTCAAATCAATTCCAAAACGAAGACACCAATAATTGCTACTTTATCATCGGGTGCAGT
 GGCAGCTTTGATGGCCTTTCTGTTTACCTGAAGGCGCTTGTGGACATGATGTCCATTGGCACCCCTCATG
 GCCTACTCTGTGGTGGCAGCCTGTGTTCTCATCCTCAGGTACCAGCCTGGCTTATCTTACGACCAGCCCA
 AATGTTCTCCTGAGAAAGATGGTCTGGGATCGTCTCCAGGGTAACCTCGAAGAGTGAGTCCCAGGTGAC
 CATGCTGCAGAGACAGGGCTTACAGATGCGGACCCTTCTGCCCCTCCCTTCTGCCAACACAGCAGTCA
 GCTTCTCTCGTGAGCTTCTGGTAGGATTCCTAGCTTCTCTGTTGGGCTGAGTGTCTTGACCACTT
 ACGGAGTTCATGCCATCACCAGGCTGGAGGCTGGAGCCTCGCTCTCCTCGCGTGTCTTCTGTTCTCTT
 CGTTGCCATCGTCTCACCATCTGGAGGACGCCCAGAATCAGCAAAAAGTAGCCTTCATGGTCCATTC
 TTACCATTTTTGCCAGCGTTCAGCATCTTGGTGAACATTTACTTGATGGTCCAGTTAAGTGCAGACACTT
 GGGTCAGATTCAGCATTTGGATGCAATTGGCTTCTGATTTACTTTCTTATGGCATTAGACACAGCCT
 GGAGGGTCATCTGAGAGATGAAAACAATGAAGAAGATGCTTATCCAGACAACGTTTCATGCAGCAGCAGAA
 GAAAAATCTGCCATTCAGCAAATGACCATCACCCAAGAAATCTCAGTTCACCTTTCATATTCATGAAA
 AGACAAGTGAATTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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_001008539.4](#)

RefSeq Size: 7389 bp

RefSeq ORF: 1977 bp

Locus ID: 6542

UniProt ID: [P52569](#)

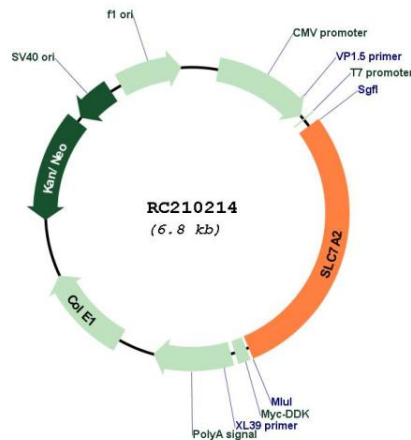
Cytogenetics: 8p22

Protein Families: Druggable Genome, Transmembrane

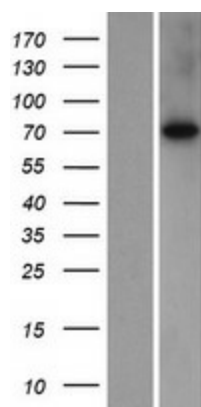
MW: 71.5 kDa

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]

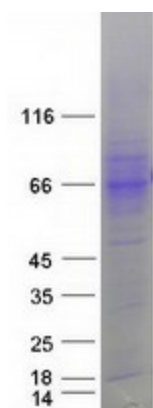
Product images:



Circular map for RC210214



Western blot validation of overexpression lysate (Cat# [LY422792]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210214 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SLC7A2 protein (Cat# [TP310214]). The protein was produced from HEK293T cells transfected with SLC7A2 cDNA clone (Cat# RC210214) using MegaTran 2.0 (Cat# [TT210002]).