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Product datasheet for RC204136

xCT (SLC7A11) (NM_014331) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	xCT (SLC7A11) (NM_014331) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	xCT
Synonyms:	CCBR1; xCT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC204136 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCAGAAAGCCTGTTGTGTCCACCATCTCCAAAGGAGGTTACCTGCAGGGAAATGTTAACGGGAGGC
TGCCTTCCCTGGGCAACAAGGAGCCACCTGGGCAGGAGAAAGTGCAGCTGAAGAGGAAAGTCACTTTACT
GAGGGGAGTCTCCATTATCATTGGCACCATCATTGGAGCAGGAATCTTCATCTCTCCTAAGGGCGTGCTC
CAGAACACGGGCAGCGTGGGCATGTCTCTGACCATCTGGACGGTGTGTGGGGTCCTGTCACTATTTGGAG
CTTTGTCTTATGCTGAATTGGGAACAACTATAAAGAAATCTGGAGGTCATTACACATATATTTTGGAAGT
CTTTGGTCCATTACCAGCTTTTGTACGAGTCTGGGTGGAACTCCTCATAATACGCCCTGCAGCTACTGCT
GTGATATCCCTGGCATTTGGACGCTACATTCTGGAACCATTTTTTATTCAATGTGAAATCCCTGAACTTG
CGATCAAGCTCATTACAGCTGTGGGCATAACTGTAGTGATGGTCCTAAATAGCATGAGTGTCAGCTGGAG
CGCCCGGATCCAGATTTTCTTAACCTTTTGCAAGCTCACAGCAATTCTGATAATTATAGTCCCTGGAGTT
ATGCAGCTAATTAAAGGTCAAACGCAGAACTTTAAAGACGCCTTTTCAGGAAGAGATTCAAGTATTACGC
GGTTGCCACTGGCTTTTTATTATGGAATGTATGCATATGCTGGCTGGTTTTACCTCAACTTTGTTACTGA
AGAAGTAGAAAACCCTGAAAAAACCATTCCCCTTGCAATATGTATATCCATGGCCATTGTCACCATTGGC
TATGTGCTGACAAATGTGGCCTACTTTACGACCATTAATGCTGAGGAGCTGCTGCTTTCAAATGCAGTGG
CAGTGACCTTTTCTGAGCGGCTACTGGGAAATTTCTCATTAGCAGTTCCGATCTTTGTTGCCCTCTCCTG
CTTTGGCTCCATGAACGGTGGTGTGTTTGCTGTCTCCAGGTTATTCTATGTTGCGTCTCGAGAGGGTCAC
CTTCCAGAAATCCTCTCCATGATTCATGTCCGCAAGCACACTCCTCTACCAGCTGTTATTGTTTTGCACC
CTTTGACAATGATAATGCTCTTCTCTGGAGACCTCGACAGTCTTTTGAATTTCCTCAGTTTTGCCAGGTG
GCTTTTTATTGGGCTGGCAGTTGCTGGGCTGATTTATCTTCGATACAAATGCCCAGATATGCATCGTCCT
TTCAAGGTGCCACTGTTCATCCCAGCTTTGTTTTCCTTCACATGCCTCTTCATGGTTGCCCTTTCCCTCT
ATTCGGACCCATTTAGTACAGGGATTGGCTTCGTCATCACTCTGACTGGAGTCCCTGCGTATTATCTCTT
TATTATATGGGACAAGAAACCCAGGTGGTTTAGAATAATGTCAGAGAAAATAACCAGAACATTACAAATA
ATACTGGAAGTTGTACCAGAAGAAGATAAGTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204136 protein sequence
Red=Cloning site Green=Tags(s)

MVRKPVVSTISKGGYLQGNVNGRLPSLGNKEPPGQEKVQLKRKVTLLRGVSIIIGTIIGAGIFISPKGVL
QNTGSVGMSLTIWTVCGVLSLFGALSYAELGTTIKKSGGHYTYILEVFGPLPAFVRVWVELLIIRPAATA
VISLAFGRYILEPFFIQCEIPELAIKLITAVGITVVMVLNSMSVSWSARIQIFLTFCKLTAILIIIVPGV
MQLIKGQTQNFKDAFSGRDSSITRLPLAFYYGMYAYAGWFYLNFVTEEVENPEKTIPLAICISMAIVTIG
YVLTNVAYFTTINAEELLLSNAVAVTFSERLLGNFSLAVPIFVALSCFGSMNGGVFAVSRLFYVASREGH
LPEILSMIHVRKHTPLPAVIVLHPLTMIMLFSGDLDSLLNFLSFARWLFIGLAVAGLIYLRYKCPDMHRP
FKVPLFIPALFSFTCLFMVALSLYSDPFSTGIGFVITLTGVPAYYLFIIWDKKPRWFRIMSEKITRTLQI
ILEVVPEEDKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6199_e09.zip

Restriction Sites: SgfI-MluI

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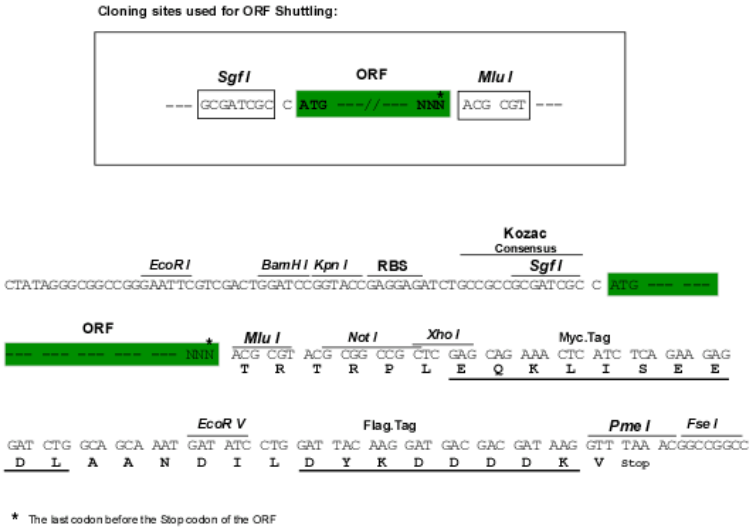
Cloning Scheme:



ACCN:	NM_014331
ORF Size:	1503 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_014331.3, NP_055146.1
RefSeq Size:	9648 bp
RefSeq ORF:	1506 bp
Locus ID:	23657
UniProt ID:	Q9UPY5
Cytogenetics:	4q28.3

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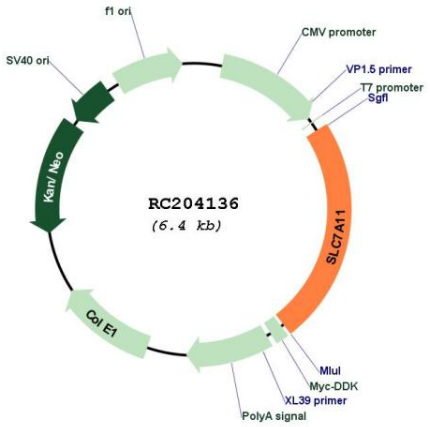
Domains:	aa_permeases
Protein Families:	Druggable Genome, Transmembrane
MW:	55.4 kDa
Gene Summary:	This gene encodes a member of a heteromeric, sodium-independent, anionic amino acid transport system that is highly specific for cysteine and glutamate. In this system, designated Xc(-), the anionic form of cysteine is transported in exchange for glutamate. This protein has been identified as the predominant mediator of Kaposi sarcoma-associated herpesvirus fusion and entry permissiveness into cells. Also, increased expression of this gene in primary gliomas (compared to normal brain tissue) was associated with increased glutamate secretion via the XCT channels, resulting in neuronal cell death. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RC204136

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