

Product datasheet for **SC321449**

xCT (SLC7A11) (NM_014331) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	xCT (SLC7A11) (NM_014331) Human Untagged Clone
Tag:	Tag Free
Symbol:	xCT
Synonyms:	CCBR1; xCT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_014331.3
 GAAAAAGCACACCTTTGAGTTTTACCTGTGAACACTATAGCGCTGACAGAGACAGTCTG
 AAAGCAGAGGAAGACATCGATCAGTAACACCAAGAGACACCAAAGTTGAAAGTTTTGTTT
 TCTTTCCCTCTGTTTTATTTTCCCCCGTGTGCCCTACTATGGTCAGAAAGCCTGTTGT
 GTCCACCATCTCCAAAGGAGGTTACCTGCAGGGAAATGTTAACGGGAGGCTGCCTCCCT
 GGGCAACAAGGAGCCACCTGGGCAGGAGAAAGTGCAGCTGAAGAGGAAAGTCACTTTACT
 GAGGGGAGTCTCCATTATCATTGGCACCATTGGAGCAGGAATCTTCATCTCTCTCTAA
 GGGCGTGTCCAGAACACGGGCAGCGTGGGCATGTCTCTGACCATCTGGACGGTGTGTGG
 GGTCTGTCACTATTTGGAGCTTTGTCTTATGCTGAATTGGGAACAACATAAAGAAATC
 TGGAGGTCATTACACATATATTTTGAAGTCTTTGGTCCATTACCAGCTTTTGTACGAGT
 CTGGGTGGAACCTCATAATACGCCCTGCAGCTACTGCTGTGATATCCCTGGCATTGTTG
 ACGCTACATTCTGGAACCATTTTTTATTCAATGTGAAATCCCTGAACTTGCAGTCAAGCT
 CATTACAGCTGTGGGCATAACTGTAGTGATGGTCCATAAAGCATGAGTGCAGCTGGAG
 CGCCCGGATCCAGATTTTCTAACCTTTTGAAGCTCACAGCAATTCTGATAATTATAGT
 CCCTGGAGTTATGCAGCTAATTAAGGTCAAACGCAGAACTTTAAAGACGCCTTTTCAGG
 AAGAGATTCAAGTATTACGCGTTGCCACTGGCTTTTTATTATGGAATGTATGCATATGC
 TGGCTGGTTTTACCTCAACTTTGTTACTGAAGAAGTAGAAAACCTGAAAAAACCTTCC
 CCTTGCAATATGTATATCCATGGCCATTGTACCATTGGCTATGTGCTGACAAATGTGGC
 CTACTTTACGACCATTAATGCTGAGGAGCTGCTGCTTTCAAATGCAGTGGCAGTGACCTT
 TTCTGAGCGGCTACTGGGAAATTTCTCATTAGCAGTCCGATCTTTGTTGCCCTCTCCTG
 CTTTGGCTCCATGAACGGTGGTGTGTTGCTGTCTCCAGTTATTCTATGTTGCGTCTCG
 AGAGGGTCACCTCCAGAAATCTCTCCATGATTCATGTCCGCAAGCACACTCCTCTACC
 AGCTGTTATTGTTTTGCACCCTTTGACAATGATAATGCTCTTCTCTGGAGACCTCGACAG
 TCTTTTGAATTTCTCAGTTTTGGCAGGTGGCTTTTTATTGGGCTGGCAGTTGCTGGGCT
 GATTTATCTTCGATACAAATGCCAGATATGCATCGTCTTTCAAGGTGCCACTGTTTCAT
 CCCAGCTTTGTTTTCTTCACATGCCTTTCATGGTTGCCCTTTCCCTCTATTTCGGACCC
 ATTTAGTACAGGGATTGGCTTCGTCATCACTCTGACTGGAGTCCCTGCGTATTATCTCTT
 TATTATATGGGACAAGAAACCCAGGTGGTTTGAATAATGTGAGAGAAAATAACCAGAAC
 ATTACAAATAACTGGAAGTTGTACCAGAAGAAGATAAGTTATGAACTAATGGACTTGA
 GATCTTGGCAATCTGCCAAGGGGAGACACAAAATAGGGATTTTTACTTCATTTTCTGAA
 AGTCTAGAGAATTACAACCTTTGGTGATAAACAAGGAGTCAAGTATTTTTATTATATA
 TTTTATCATATTGAACTAATTTCTAAGAAATTTAGTTATAACTCTATGTAGTTATAGAA
 AGTGAATATGCAGTTATTCTATGATTCGCACAATTCTTGAGTCTCTGATACCTACCTATT
 GGGGTTAGGAGAAAAGACTAGACAATTACTATGTGGTCATTCTCTACAACATATGTTAGC
 ACGGCAAGAACCTTCAAATTGAAGACTGAGATTTTTCTGTATATATGGGTTTTGTAAG
 ATGGTTTTACACACTATAGATGTCTATACTGTGAAAAGTGTTCATTCTGAAAAAAG
 CATACATCATGATTATGGCAA

Restriction Sites: Please inquire

ACCN: NM_014331

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_014331.3, NP_055146.1</u>
RefSeq Size:	9648 bp
RefSeq ORF:	1506 bp
Locus ID:	23657
UniProt ID:	<u>Q9UPY5</u>
Cytogenetics:	4q28.3
Domains:	aa_permeases
Protein Families:	Druggable Genome, Transmembrane
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]