

Product datasheet for **RC204136L4V**

xCT (SLC7A11) (NM_014331) Human Tagged ORF Clone Lentiviral Particle

Product data:

| | |
|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | xCT (SLC7A11) (NM_014331) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | xCT |
| Synonyms: | CCBR1; xCT |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_014331 |
| ORF Size: | 1503 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC204136). |
| 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. |
| RefSeq: | NM_014331.3 , NP_055146.1 |
| RefSeq Size: | 9648 bp |
| RefSeq ORF: | 1506 bp |
| Locus ID: | 23657 |
| UniProt ID: | Q9UPY5 |
| Cytogenetics: | 4q28.3 |
| Domains: | aa_permeases |
| Protein Families: | Druggable Genome, Transmembrane |

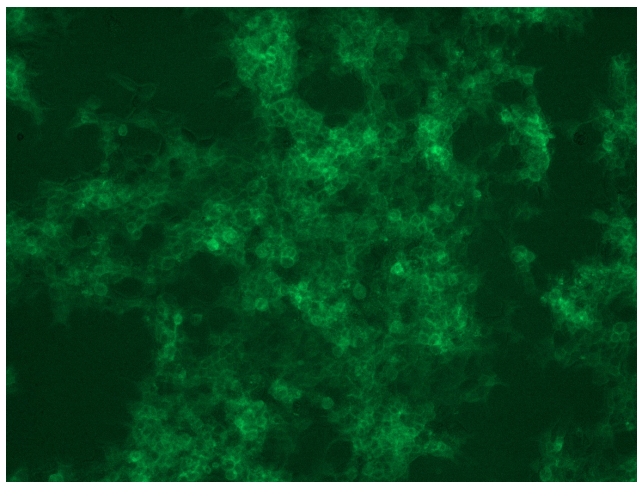


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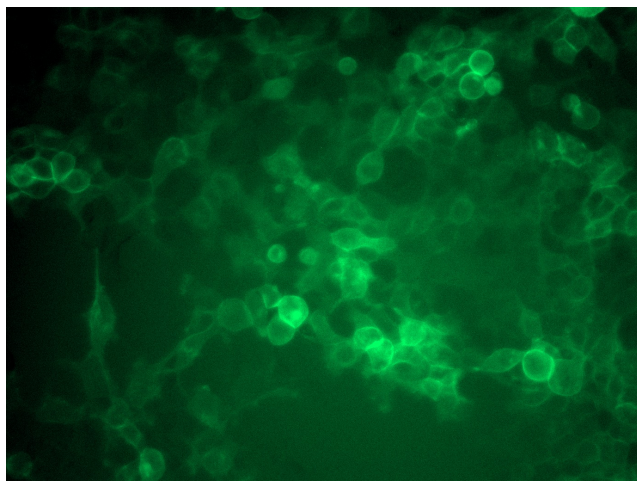
MW: 55.4 kDa

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:



[RC204136L4] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC204136L4V particle to overexpress human SLC7A11-mGFP fusion protein.



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