

## Product datasheet for **SC319497**

### SLC7A4 (NM\_004173) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC7A4 (NM_004173) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC7A4
Synonyms:	CAT-4; CAT4; HCAT3; VH
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\_004173.2  
 GCGGAGGCAGCGCTGCGGCAGCAGCAGGTTCCAGTAGCTGGCTCGGTGCTTTCTCGGC  
 CACCTGCCATGGCCCGGGGGCTGCCACCATTGCTAGCCTGGCACGCTTATGCCAGAAGC  
 TGAACCGCCTGAAGCCGCTGGAGGACTCCACCATGGAGACGTCACTGCGGCGCTGCCTGT  
 CCACGCTGGACCTGACTTTCTGGGCGTGGGTGGCATGGTGGGCTCGGGTCTCTACGTGC  
 TCACAGGTGCCGTGGCCAAGGAGGTGGCTGGCCCTGCTGTGCTCTTGTCTTCGGTGTGG  
 CCGCTGTGGCCTCCCTGCTGGCAGCCCTATGCTATGCAGAAATTTGGGGCACGTGTGCCAC  
 GCACGGGCTCTGCCTACCTGTTACCTACGTATCCATGGGCGAGCTGTGGGCTTCTCTCA  
 TCGGCTGGAATGTTCTCCTCGAATACATCATCGGTGGCGCCGCCGTGGCCCGTGCCTGGA  
 GTGGCTACCTGGACTCTATGTTACGCCACAGCATCCGCAACTTCACTGAGACCCACGTGG  
 GTTCTTGGCAGGTGCCCTCCTGGGCACTACCCGGACTTCTGGCTGCTGGCATCATCC  
 TCCTGGCCTCTGCCTTTGTCTCCTGTGGAGCCCGGTGCTCCTGGCTCAATCACACCT  
 TCTCGGCCATCAGCCTGCTTGTCTTCTTATTGTCATCCTGGGCTTATCCTGGCC  
 AGCCTCACAACCTGGAGCGCTGACGAAGGCGGCTTGCACCCTTCGGCTTCTCGGCGTCA  
 TGCCCGCACTGCCTCCTGCTTCTATGCTTTCGTGGGCTTCGACGTCAATGCCGCTCCA  
 GTGAGGAGGCCAGAACCCACGGCGGTCTGTGCCTCTGGCCATCGCCATCTCGCTTGCCA  
 TTGCAGCTGGTGCCTACATCCTTGTCTCCACCGTGCTAACCCCTCATGGTGCCTGGCACA  
 GCCTGGACCCCGACTCAGCGCTTGCAGATGCCTTCTACCAGCGGGGTACAGGTGGGCTG  
 GCTTATCGTGGCAGCTGGCTCCATCTGCGCCATGAACACCGTCTGCTCAGCCTCCTCT  
 TCTCCCTGCCACGATTGTCTATGCCATGGCCGCCGATGGGCTCTTCTCCAGGTGTTTG  
 CCCATGTGCACCCCGGACACAGGTGCCTGTGGCGGCAACCCTGGCGTTCGGGCTCCTCA  
 CGGCCTTCTGGCACTGCTGTGGACCTGGAGTCGCTGGTTCAGTTCCTGTCCCTGGCA  
 CACTCTGGCCTACACATTCTGTGGCCACCAGTATCATTGTGCTGCGCTTCCAGAAGTCTT  
 CCCCGCCAGCTCCCAAGGCCAGCCAGCCCTGGCCCCCTGACCAAGCAGCAGAGCTCCT  
 TCTCAGACCACCTACAGCTGGTGGCACTGTACACGCCTCCGTCCTGAGCCAGGGGAGC  
 TGAAGCCAGCCCTGAGGCCCTACCTGGGCTTCTTGGATGGGTACAGCCCTGGAGCAGTGG  
 TGACTTGGGCGCTTGGCGTTATGTTGGCCTCAGCCATCACCATAGGCTGCGTGCTGTCT  
 TTGGAACTCGACCCTGCACCTCCACACTGGGGTTACATCCTGTGCTCCTGCTCACCA  
 GTGTATGTTTCTGCTCAGCCTCCTTGTCTGGGGCTCACCAGCAACAGTATCGGGAAG  
 ACTTATTTAGATCCCCATGGTTCCTGATTCCAGCCCTGAGCATCGTCTCAACATCT  
 GCCTCATGCTGAAACTTAGCTATCTGACCTGGGTGCGCTTCTCCATCTGGCTGCTGATGG  
 GACTTGCAGTGTATTTCCGCTATGGCATCCGGCATAGCAAGGAGAACCAGCGGGAGCTGC  
 CAGGGCTGAACTCCACACTACGTGGTATTTCCCAGGGGAGCCTGGAGGAGACAGTGC  
 AGGCTATGCAGCCCCCAGCCAGGCACCAGCACAGGACCCCTGGCCATATGGAGTAGCTGA  
 TCAGCCCACACTTGGCCCGCCCTCCACACCTGCTTGGGAGGCCAGAGAGCCAGACAAG  
 CCGAGAGCCCTTCTGTTGTGGGAGCCTGGGTTTGCAGGCTGCACAGGCTGGGAGTC  
 CTCAGGACCTTAGGACCTTATCCAGGGGCTGGGCTTTCGGGCTTTCAGGAGTGGGCTTG  
 GCTGGTGTGGTGCATGGACTCTGCCAGAGCCTTCTTGTATGATCAGCTCCAGCTA  
 CCTGGGCACTTCTGGTGGGTTGGATGGGAAGGCCACAGCCCAAGGGATCCATAATAATA  
 ATTGCTTGGCCAGCCATGTGGCTGCTGGCGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_004173

**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).

<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004173.2</a> , <a href="#">NP_004164.2</a>
<b>RefSeq Size:</b>	2323 bp
<b>RefSeq ORF:</b>	1908 bp
<b>Locus ID:</b>	6545
<b>UniProt ID:</b>	<a href="#">O43246</a>
<b>Cytogenetics:</b>	22q11.21
<b>Domains:</b>	aa_permeases
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	Involved in the transport of the cationic amino acids (arginine, lysine and ornithine). [UniProtKB/Swiss-Prot Function]