

Product datasheet for **SC119398**

Carbonic Anhydrase XI (CA11) (NM_001217) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carbonic Anhydrase XI (CA11) (NM_001217) Human Untagged Clone
Tag:	Tag Free
Symbol:	Carbonic Anhydrase XI
Synonyms:	CA-RP; CA-RP II; CA-XI; CARP-2; CARPX1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001217, the custom clone sequence may differ by one or more nucleotides

```
ATGGGGGCTGCAGCTCGTCTGAGCGCCCTCGAGCGCTGGTACTCTGGGCTGCACTGGGGGAGCAGCTC
ACATCGGACCAGCACCTGACCCCGAGGACTGGTGGAGCTACAAGGATAATCTCCAGGAAACTTCGTGCC
AGGGCCTCCTTTCTGGGGCTGGTGAATGCAGCGTGGAGTCTGTGTGCTGTGGGAAGCGGCAGAGCCCC
GTGGATGTGGAGCTGAAGAGGGTCTTTATGACCCCTTTCTGCCCCATTAAGGCTCAGCACTGGAGGAG
AGAAGCTCCGGGAACCTTGTACAACACCGCCGACATGTCTCCTTCTGCTGCACCCGACCTGTGGT
CAATGTGTCTGGAGTCCCCTCCTTTACAGCCACCGACTCAGTGAAGTGGGCTGCTGTTGGAGCTCGC
GACGGAGCCGGCTCGGAACATCAGATCAACCACCAGGGCTTCTCTGCTGAGGTGCAGCTCATTCACTTCA
ACCAGGAAGTCTACGGGAATTTACAGCGCTGCCTCCCGCGGCCCAATGGCCTGGCATTCTCAGCCTCTT
TGTCACGTTGCCAGTACCTCTAACCCATTCTCAGTCGCTCCTTAACCGGACACCATCACTCGCATC
TCCTACAAGAAATGATGCCTACTTTCTTCAAGACCTGAGCCTGGAGCTCCTGTTCCCTGAATCCTTCGGCT
TCATCACCTATCAGGGCTCTCTCAGCACCCCGCCTGCTCCGAGACTGTCACCTGGATCCTCATTGACCG
GGCCCTCAATATCACCTCCCTTCAGATGCACTCCCTGAGACTCCTGAGCCAGAATCCTCCATCTCAGATC
TTCCAGAGCCTCAGCGGTAACAGCCGGCCCTGCAGCCCTTGCCACAGGGCACTGAGGGGCAACAGGG
ACCCCGGCACCCCGAGAGGGCTGCCGAGGCCCAACTACCGCTGCATGTGGATGGTGTCCCCATGG
TCGCTGA
```



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001217 unedited TATAACACCCGCCGTTGNCGCAATGGGCGGTAGGCGTGTACGGTGGNGAGTCTATATAA GCAGAGCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGGCCGC GAATTCGGCACGAGGCCCTCGTGCCGAATTCGGCACGAGGGGAAGATCAGGAGCTAGAGGG AGACTGGAGGGTCCGGGAAAAGAGCAGAGGAAAGAGGAAAGACAGAGAGACGGGAGA GAGAAGAAGAGTGGGTTTGAAGGGCGGATCTCAGTCCCTGGCTGCTTTGGCATTGGGGA ACTGGGACTCCCTGTGGGGAGGAGAGGAAAGCTGGAAGTCTGGAGGGACAGGGTCCCAG AAGGAGGGGACAGAGGAGCTGAGAGAGGGGGCAGGGCGTTGGCAGGGTCCCTCGGAG GCCTCCTGGGGATGGGGGCTGCAGCTCGTCTGAGCGCCCTCGAGCGCTGGTACTCTGG GCTGCACTGGGGCAGCAGCTCACATCGGACCAGCACCTGACCCCGAGGACTGGTGGAG CTACAAGATAATCTCCAGGAAACTTCGTGCCAGGGCCNTCCTTTCTGGGGCCTGGTGA ATGCAGCGTGGAGTTCTGTGTGCTGTGGGAAAGCGCAGAGCCCCGTGGATGTGGAGCTA AAAAAGTTCTTTATGGACCCCTTCTGCCCATTTAGGCTCAGCACTGGGAGAGAGAAG CTNCGGGGAACCTTTGTACACACCGGCCGACATGTCTNCTTCTGCCTGCACCCCGACC TGTGGTCAATGTCTGGGGGAGTCCCCTTCTTTACAGCCCCGACTCATTGAACTGCGG GTGCTTGTGGAGCTCCCGAACGGACCCGGCTCGGGACATCAAATTCACCACAGGGCT CTTTGTTTGGGGCAGCTCAT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001217 unedited GCACTTCCAGCCAGAAGCCTGGGAGGGTACAGGATGCCACCCGGATCTGTTTCAGAAACG CTATGACCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTAGTATTCTGTCC CTTTAATAGCTTTGTTTTAGGGTAACCTCCCTCGCCTTGTGGGGAGGCTTAAGACGGGC GGGTGCAATCCTCGAAGGGGAGTCTCAGCGACCATGGGGGACACCATCCACATGCAGGCG GTAGTTGGGGCCTCGGCAGCGCCTCTCGGGGTGCCGGGGTCCCTGTTGCCCTCAGTGC CCTGTGGGCCAAGGGCTGCAGGGGCCGGCTGTTACCGCTGAGGCTCTGGAAGATCTGAGA TGGAGGATTCTGGCTCAGGAGTCTCAGGGAGTGCATCTGAAGNNAGGTGATATTGAGGGC CCGGTCAATGAGGATCCAGGTGACAGTCTCGGAGCAGGGCGGGGTGCTGAGAGAGCCCTG ATAGGTGATGAAGCCGAAGGATTCAGGGAACAGGAGCTCCAGGCTCANGTCTTGAAGAAA GTAGGCATCATTCTGTAGGAGATGCGAGTGTGGTGTGCGGGTTAAAGAGGCGACTGAG GAATGGGTTANAGGTACTGGCAACGTTGACAAGAGGCTGAGAATGGCCAGGCCATTGGGG CCCGCGGAGGCAGCGCTGAAATTCGTAAGTTCTGTTTGAAGTGAATGAGCTGCCTNN NNCATAAAACCCCTGTGGTTGATCTGATGTTCCGAGCCGCTTCGTGCGGAGCTCAACA GCANNCGCANTCACTGANTCGGTGGCTGTAAAGAAGGGACCTTCGACCCATGACCCCACT NCGGGTGCAGCAGAAGGAAACATGTCGCCCGTGTGTTCAAAGGTCCTCGGAGCTCTCTTCT CCGGGNTGAACTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001217
Insert Size:	1700 bp
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).
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:	NM_001217.3 , NP_001208.2
RefSeq Size:	1686 bp
RefSeq ORF:	987 bp
Locus ID:	770
UniProt ID:	O75493
Cytogenetics:	19q13.33
Domains:	carb_anhydrase
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	<p>Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA XI is likely a secreted protein, however, radical changes at active site residues completely conserved in CA isozymes with catalytic activity, make it unlikely that it has carbonic anhydrase activity. It shares properties in common with two other acatalytic CA isoforms, CA VIII and CA X. CA XI is most abundantly expressed in brain, and may play a general role in the central nervous system. [provided by RefSeq, Jul 2008]</p>