

Product datasheet for **SC119399**

CA12 (NM_001218) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CA12 (NM_001218) Human Untagged Clone
Tag:	Tag Free
Symbol:	CA12
Synonyms:	CA-XII; CAXII; HsT18816; T18816
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001218, the custom clone sequence may differ by one or more nucleotides

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ATGCCCGGCGCAGCCTGCACGGCGGCCGTGCTCCTGCTGGTGATCTTAAAGGAACAGCCTTCCAGCC
CGGCCCCAGTGAACGGTTCCAAGTGGACTTATTTTGGTCCTGATGGGGAGAATAGCTGGTCCAAGAAGTA
CCCGTCGTGTGGGGCCCTGCTGCAGTCCCCATAGACCTGCACAGTGACATCCTCCAGTATGACGCCAGC
CTCACGCCCTCGAGTCCAAGGCTACAATCTGTCTGCCAACAAGCAGTTTCTCCTGACCAACAATGGCC
ATTCAGTGAAGCTGAACCTGCCCTCGGACATGCACATCCAGGGCCTCCAGTCTCGCTACAGTGCCACGCA
GCTGCACCTGCACTGGGGGAACCCGAATGACCCGCACGGCTCTGAGCACACCGTCAAGCGGACAGCACTTC
GCCGCCGAGCTGCACATTGTCCATTATAACTCAGACCTTTATCCTGACGCCAGCACTGCCAGCAACAAGT
CAGAAGGCCTCGCTGTCTGGCTGTTCTCATTGAGATGGGCTCCTTCAATCCGTCCTATGACAAGATCTT
CAGTCACCTTCAACATGTAAAGTACAAAGGCCAGGAAGCATTTCGTCGGGATTCAACATTGAAGAGCTG
CTTCCGGAGAGGACCGCTGAATATTACCGTACCGGGGTCCCTGACCACACCCCTTGAACCCCACTG
TGCTCTGGACAGTTTTCCGAAACCCCGTCAAATTTCCAGGAGCAGCTGCTGGCTTTGGAGACAGCCCT
GTAAGGAGGCTGATACACCTCTTCCCAAGTGAAGTCTGTACTGCGGCAGGACTGAGTCTGGGCA
TCATCCTCTCACTGGCCCTGGCTGGCATTCTTGGCATCTGTATTGTGGTGGTGTCCATTTGGCTTTT
CAGAAGGAAGAGTATCAAAAAGGTGATAACAAGGGAGTCATTTACAAGCCAGCCACCAAGATGGAGACT
GAGGCCACGCTTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001218 unedited</p> <pre>GGGTTTTGTATACGACTCACTATAGGGCGGCCGCGATTCCGGCACGAGGCTCGCCACGGCA CCCAGGCTGCGCGCACGCGGTCCCGGTGTGCAGCTGGAGAGCGAGCGGCCACCGGGAGCC CCCGGCACAGCCCGCGCCCGCCCGCAGGAGCCCGGAAGATGCCCGGCGCAGCCTGCA CGCGCGGCGCGTGTCTCTGTGGTGATCTTAAAGGAACAGCCTTCCAGCCCGGCCCAAGT GAACGGTTCCAAGTGGACTTATTTTGGTCTGTGGGAGAATAGCTGGTCCAAGAAGTA CCCGTCGTGTGGGGCCTGTGCAGTCCCCATAGACCTGCACAGTGACATCCTCCAGTA TGACGCCAGCCTCACGCCCTCGAGTTCCAAGGCTACAATCTGTCTGCCAACAAGCAGTT TCTCTGACCAACAATGGCCATTCAAGTGAAGCTGAACCTGCCCTCGGACATGCACATCCA GGGCTCCAGTCTCGCTACAGTGCCACGCAGCTGCACCTGCACTGGGGAAACCCGAATGA CCCGCACGGCTCTGAGCACACCGTCAGCGGACAGCACTTCGCCCGGAGCTGCACATTGT CCATTATAACTCAGACCTTTATCCTGACGCCAGCACTGCCAGCAACAAGTCAGAAGGCCCT CGCTGTCTGGCTGTTCTCATTGAGATGGGCTCCTTCAATCCGTCTATGACAAGATCTT CAGTCACCTTCAACATGTAAAGTACAAAGGCCANGAAGCATTCTGCCGGGATTCAACAT TGAAGAGCTGCTTNCGGAGAGACCGCTNGATATTACCGTACCGGNGGTCCCTGCACAC CCCTTTGCACCCCACTGTGCTCTGGACAGTTTCCGAAACCCCGTGAATTTCCAGGA GCAGCTGCTGGCTTTGGAGACGCCCTGACTCACACCATGGACGACCCTCCCAN</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001218 unedited</p> <pre>CGCGGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTGGAGATGGAGTCTCGTCT GTCACCCAGGCTAGAGTGCAGTGGCATGACCTTGGCTTACTGCAACCTCCGCCTCCTGGG TTCAAGCGATTCCAGAAGAGAGAATTCTTAGAGTCAGAGGGAGGAGTAGAAGGAAAAAGA TATTTAAAAAGCTATGCTTCAAGAGGACATTTTCATGCTGTCAAATGAGACTGTGAATCA GAAAGTTCTCGGGAACTGCAAGGTGCTCTCAACTAGGGTTCGGTTCTTCTCAGTCATG GCACTGACTCATCTCCACAGGTTCTCACCTGCGGGAGGAAAAATGGAGGATTGCGCCTG TCAGAAACTGTCTGTGTATTGCGGGAAGAATATGGAGTATCTTAGTAGCATTCCATTAT TACTTGCCCTAAATACATGATGCCAGCCCTGCACAGATAACCTCCTGCTTTTATAGC TTGAAATATATTTGATCTAAACCACGATTTGACATCTTCAAGAGAGAGAGAAGTAGATAAA AGTCTCCATTCCAGGTTGGCAGTAGGGATCCTGCAGAAGTGGCTGAAATGAAATTTGGCC TACAGAGAATAAGTTCTACAGTCATTTTGTCTGCCTATTTCTCCAGATTCAAAGGCA GATTGGGTCATCTCGAACTCATGTCTCCTCCAGGACACAGCAACAACACATTTTCAAGG AACAGCCTCATTATTTGTAATACTGTAGAGTATAAACATAACTGCTCCACTGACAGGA GGGNTGGATNTGGACTNNATATGNATTATTCTGTCTTACATTATGGCTGATAACAGAT GTGATTCCATTCTGATCCAAGTGAACCTNCCANACATCCTGTCTCTCATCTCTTGGCCT CTAGCTTCTCCTCTCTCCACCAGAGTGGNACTGACTGCANCCCTAGCTGGCAGGCT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001218
Insert Size:	2790 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).
RefSeq:	NM_001218.3 , NP_001209.1
RefSeq Size:	3992 bp
RefSeq ORF:	1065 bp
Locus ID:	771

UniProt ID: [O43570](#)

Domains: carb_anhydrase

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Nitrogen metabolism

Gene Summary: 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. This gene product is a type I membrane protein that is highly expressed in normal tissues, such as kidney, colon and pancreas, and has been found to be overexpressed in 10% of clear cell renal carcinomas. Three transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jun 2014]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.