

Product datasheet for SC111362

Carbonic anhydrase X (CA10) (NM_020178) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carbonic anhydrase X (CA10) (NM_020178) Human Untagged Clone
Tag:	Tag Free
Symbol:	Carbonic anhydrase X
Synonyms:	CA-RPX; CARPX; HUCEP-15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111362 sequence for NM_020178 edited (data generated by NextGen Sequencing)

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ATGGAAATAGTCTGGGAGGTGCTTTTTCTTCTTCAAGCCAATTTTCATCGTCTGCATATCA
GCTCAACAGAATTACCAAAAAATCCATGAAGGCTGGTGGGCATACAAGGAGGTGGTCCAG
GGAAGCTTTGTTCCAGTTCCTTCTTCTGGGGATTGGTGAAGTCAAGTTCGGAATCTTTGC
TCTGTGGGAAACGGCAGTCGCCAGTCAACATAGAGACCAGTCACATGATCTTCGACCCC
TTTCTGACACCTCTTCGCATCAACACGGGGGGCAGGAAGGTCAGTGGGACCATGTACAAC
ACTGGAAGACACGTATCCCTTCGCCTGGACAAGGAGCACTTGGTCAACATATCTGGAGGG
CCCATGACATACAGCCACCGCTGGAGGAGATCCGACTACACTTTGGGAGTGAGGACAGC
CAAGGGTCGGAGCACCTCCTCAATGGACAGGCCTTCTCTGGGGAGGTGCAGCTCATCCAC
TATAACCATGAGCTATATACGAATGTCACAGAAGCTGCAAAGAGTCCAAATGGATTGGTG
GTAGTTTCTATATTTATAAAAAGTTTCTGATTTCATCAAACCCATTTCTTAATCGAATGCTC
AACAGAGATACTATCACAGAATAACATATAAAAATGATGCATATTTACTACAGGGGCTT
AATATAGAGGAATATATCCAGAGACCTTAGTTTCATCACTTACGATGGGTCGATGACT
ATCCCACCTGCTATGAGACAGCAAGTTGGATCATAATGAACAAACCTGTCTATAAACC
AGGATGCAGATGCATTCTTGGCCTGCTCAGCCAGAACCAGCCATCTCAGATCTTTCTG
AGCATGAGTGACAACCTCAGGCCTGTCCAGCCACTCAACAACCGCTGCATCCGCACCAAT
ATCAACTTCAGTTTACAGGGGAAGGACTGTCCAACAACCGAGCCAGAAGCTTCAGTAT
AGAGTAAATGAATGGCTCCTCAAGTAG

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Clone variation with respect to NM_020178.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_020178 unedited</p> <pre> NGTTCAAATTTTGTNATACGACTCACTTATAGGGCGCCGCGATTTCGGCACGAGGCTGGT CTAGGAACCTGCAGAGAAAAGACTCTGGGGAGAAGAACTGCCCGGAGCGCAGCAGCCAC CCTCCGACCATGCCCCGGTGAGGGGGCGGACTTCGAGGGCAACTTGCCGCGACTGCCT GGGCTTAGCCAGCGAGCTACGCGCTCCCGGGAGCCGGAATTGCACGGCGCAGCCCGGG GGGGCTATCGTCTATGCTCTTCTTGGGGCGCCAGACGAATCGGGGTCTCGTTTTTGTCTGG AAGAGCCAGTGTGTGGTCTCAGGTGGCTGCTGCCCGCCGCCGCCGCCGCCGCCGCTGC TAGTGCGGTTTTCCGCGCTGGTGCGAAGAGAAGAGACACGCGAGCGGGGAGACCTCCAAG GCACGGAGGCATCGACATGTGTGAGCAGCATCTGGGGCGCACATCCGTCGAGCCCGAGGG GAGATTTGCCGGAACAATCAAACCTGCGATATTGATCTTGGGGGTGACTGTCCCTGGCCG GCTGTCCGGTGGGAGTGCAGTGTGCACTCGCTCGGAAGTGTGTGCGAGTGTGTATGTGT GTGTGCCGTGTCCGGCTCCCCCTTCCCCCGTTTTCCCGTCGAGTGATGCACTTGAAT GAGAATCAGAGGATGAAATAGTCTGGGAGGTGCTTTTTCTTCTCAGCCAATTTTCATCG TCTGCATATCAGCTCAACAGAATTCACCAAAAATCCATGAAGGCTGGTGGCATAACAAGG AGGTGGTCCACGGAAGCTCTGNTCCAGTTCCTTCTTTCTGGNGGATTGGTGAACCTAGCT TGGGATCTTTGCTCTGTTGGGAAACGGCAGTCGCCAGTCAACATAGAGACCAGTACCAT GACCTTCGACCCCTTTCTGACACCTCTTN </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_020178 unedited</p> <pre> TTAGCTTTGNACCCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAACTTG TTAAACACATTTATTGATTTCTTGACAGTAACCAAAACACAGTGAGTGACCATTATAAACA AGAAAAGAAAGGCATTCTTTTTGACTTTGTGAGATCTGGCTGCACCTGGAGAGAAACAT ACCCCTTTCCAGGAACCTACAAGGCAAAGTGCATTTCCTTCACGGGAGCATCACAGGGGG GCATGGCAGTTTTGAAACGCAAGAAGTCTGTGCCTGCTATCTCAGGCTGAAGCTCACCT CATGTGAATGATTGAGCCATGGAGTGAATTAAGTCATACTTGCTTAGCAAATGCAATTC CTGATTGCCACAAACTCAGTAAAAACTGGCTGCAAATGAACAAAACATGTAGATGAAGGA ACAAGTGAATCAAAGAAATGCAGTTGCATGGAGCCAGGGCTTAGCCTGTAAAGGAAGGAGA ACAGACCAAAGCCAGAAAAATGAAATTAACCTGTTAAACACATTTATTGAGCTGGTAACA ATAACCAAAACACAATGTATGACCTTTGGAAAACAAGAAACAGCAAATGGATCATTCTTGA TCTTGGCAAATCCTACTACAGATATGTGACAAAAGAGGGAAATAATTCCATTTCTTATAG TCTGTGGTGATATATACAATGTGTAGCTCTTCAATGTCTGCTTTTTTTTTCTTTGTAA ATTGGTGAGTAAACAGAAGAATCATAATCTAGAAATAAGTGTCTTGGTCAACTTTGTCC TGCTCACCTGCTACCAGCACCTCAAAGGATCCTAGGACACTANTCTGAATTACTTGATG CANAGTCCGTTTGATGCCATCAGAGCTGTATTTCTCCTCTCTTTGGAAGAATTTTGT ATGTACAAGGCTGNAAGTCTCATGGNGTAAC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_020178
Insert Size:	2930 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_020178.3 , NP_064563.1
RefSeq Size:	3210 bp
RefSeq ORF:	987 bp
Locus ID:	56934
UniProt ID:	Q9NS85
Cytogenetics:	17q21.33-q22
Domains:	carb_anhydrase
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene encodes a protein that belongs to the carbonic anhydrase family of zinc metalloenzymes, which catalyze the reversible hydration of carbon dioxide in various biological processes. The protein encoded by this gene is an acatalytic member of the alpha-carbonic anhydrase subgroup, and it is thought to play a role in the central nervous system, especially in brain development. Multiple transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.</p>