

Product datasheet for **RC206503**

Carbonic Anhydrase XIV (CA14) (NM_012113) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carbonic Anhydrase XIV (CA14) (NM_012113) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Carbonic Anhydrase XIV
Synonyms:	CAXiV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206503 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTTGTTCTCCGCCCTCTGCTGGAGGTGATTTGGATCCTGGCTGCAGATGGGGTCAACACTGGACGT
ATGAGGGCCACATGGTCAGGACCATTGGCCAGCCTCTTACCCTGAGTGTGAAACAATGCCAGTCGCG
CATCGATATTCAGACAGACAGTGTGACATTTGACCCTGATTTGCCTGCTCTGCAGCCCCACGGATATGAC
CAGCCTGGCACCAGCCTTTGGACCTGCACAACAATGGCCACACAGTCAACTCTCTGCCCTCTACCC
TGTATCTGGTGGACTTCCCCGAAAATATGTAGCTGCCAGCTCCACCTGCACTGGGGTCAAGAAAGGATC
CCCAGGGGGTCAAGAACACCAGATCAACAGTGAAGCCACATTTGCAGAGCTCCACATTGTACATTATGAC
TCTGATTCCTATGACAGCTTGAGTGAGGCTGCTGAGAGGCCTCAGGGCCTGGCTGTCTGGGCATCCTAA
TTGAGGTGGGTGAGACTAAGAATATAGCTTATGAACACATTCTGAGTCACTTGCATGAAGTCAGGCATAA
AGATCAGAAGACCTCAGTGCCTCCCTTCAACCTAAGAGAGCTGCTCCCCAACAGCTGGGGCAGTACTTC
CGCTACAATGGCTCGCTCACAACCTCCCTTGTACCAGAGTGTGCTCTGGACAGTTTTTTATAGAAGGT
CCCAGATTTCAATGGAACAGCTGGAAAAGCTTCAGGGGACATTGTTCTCCACAGAAGAGGAGCCCTCAA
GCTTCTGGTACAGAACTACCGAGCCCTCAGCCTCTCAATCAGCGCATGGTCTTTGCTTCTTTTATCCAA
GCAGGATCCTCGTATACCACAGGTGAAATGCTGAGTCTAGGTGTAGGAATCTTGGTTGGCTGTCTGCCC
TTCTCCTGGCTGTTTATTTCAATTGCTAGAAAAGATTGGAAGAAGAGGCTGGAAAACCGAAAGAGTGTGGT
CTTCACCTCAGCACAAGCCACGACTGAGGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Reconstitution Method:

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_012113.3](#)

RefSeq Size: 1757 bp

RefSeq ORF: 1014 bp

Locus ID: 23632

UniProt ID: [Q9ULX7](#)

Cytogenetics: 1q21.2

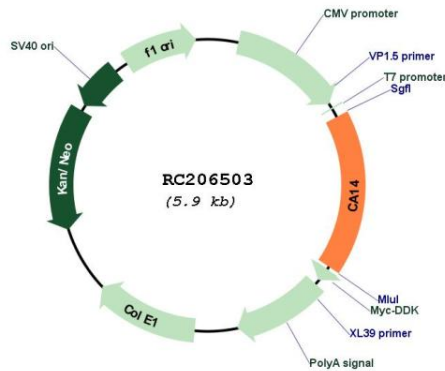
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Nitrogen metabolism

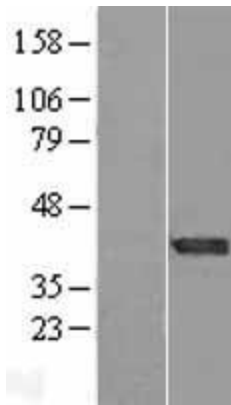
MW: 37.7 kDa

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. They show extensive diversity in tissue distribution and in their subcellular localization. CA XIV is predicted to be a type I membrane protein and shares highest sequence similarity with the other transmembrane CA isoform, CA XII; however, they have different patterns of tissue-specific expression and thus may play different physiologic roles. [provided by RefSeq, Jul 2008]

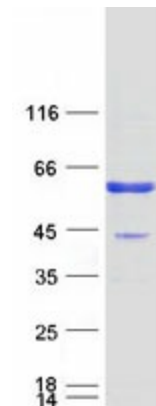
Product images:



Circular map for RC206503



Western blot validation of overexpression lysate (Cat# [LY415966]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206503 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CA14 protein (Cat# [TP306503]). The protein was produced from HEK293T cells transfected with CA14 cDNA clone (Cat# RC206503) using MegaTran 2.0 (Cat# [TT210002]).