

Product datasheet for **RC204034**

CA12 (NM_206925) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CA12 (NM_206925) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CA12
Synonyms:	CA-XII; CAXII; HsT18816; T18816
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204034 representing NM_206925 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGGCGCAGCCTGCACGCGGCGGCGTCTCTGCTGGTATCTTAAAGGAACAGCCTTCCAGCC
CGGCCCCAGTGAACGGTCCAAGTGGACTTATTTGGTCTGATGGGAGAATAGCTGGTCCAAGAAGTA
CCCGTCGTGTGGGGCCGTGTCAGTCCCCATAGACCTGCACAGTGACATCCTCCAGTATGACGCCAGC
CTCAGCCCTCGAGTTCAAGGCTACAATCTGTCTGCCAACAAGCAGTTTCTCCTGACCAACAATGGCC
ATTCAGTGAAGCTGAACCTGCCCTCGGACATGCACATCCAGGGCCTCCAGTCTCGCTACAGTGCCACGCA
GCTGCACCTGCACTGGGGGAACCCGAATGACCCGCACGGCTCTGAGCACACCGTCAAGCGGACAGCACTTC
GCCGCCGAGCTGCACATTGTCCATTATAACTCAGACCTTTATCCTGACGCCAGCACTGCCAGCAACAAGT
CAGAAGGCCTCGCTGTCTGGCTGTTCTCATTGAGATGGGCTCCTTCAATCCGTCCTATGACAAGATCTT
CAGTCACTTCAACATGTAAGTACAAAGGCCAGGAAGCATTCTGCCGGGATTCAACATTGAAGAGCTG
CTTCCGGAGAGGACCGCTGAATATTACCGCTACCGGGGTCCCTGACCACACCCCTTGCACCCCACTG
TGCTCTGGACAGTTTTCCGAAACCCCGTCAAAATTTCCAGGAGCAGCTGCTGGCTTTGGAGACAGCCCT
GACTGCACACATGGACGACCTTCCCCAGAGAAATGATCAACAATCCGGCAGGTCCAGAAGTTC
GATGAGAGGCTGGTATACACCTCTTCCCAAGGCATCATCCTCACTGGCCCTGGCTGGCATTCTTG
GCATCTGTATTGGTGGTGGTGTCCATTTGGCTTTTCAGAAGGAAGAGTATCAAAAAGGTGATAACAA
GGGAGTCATTTACAAGCCAGCCACCAAGATGGAGACTGAGGCCACGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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_206925.2](#), [NP_996808.1](#)

RefSeq Size: 3959 bp

RefSeq ORF: 1032 bp

Locus ID: 771

UniProt ID: [O43570](#)

Cytogenetics: 15q22.2

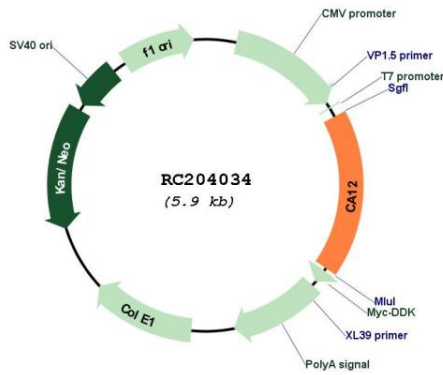
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Nitrogen metabolism

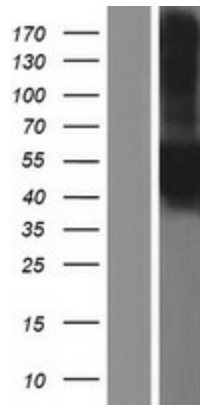
MW: 35.7 kDa

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. 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]

Product images:



Circular map for RC204034



Western blot validation of overexpression lysate (Cat# [LY404173]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204034 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).