

## Product datasheet for RC208607

### CA13 (NM\_198584) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CA13 (NM_198584) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CA13
Synonyms:	CAXIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208607 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGAGGCTCAGCTGGGGATACCGCGAGCACAAACGGTCCTATTCAGTGAAGGAATTTTCCCTATTG  
CTGATGGTGATCAGCAATCTCCAATTGAGATTAACCAAGAAGTAAATATGACTCTTCCCTCCGACC  
ACTTAGTATCAAGTATGACCCAAGCTCAGCTAAAATCATCAGCAACAGCGGCCATTCCTCAATGTTGAC  
TTTGATGACACAGAGAACAATCAGTTCTGCGTGGTGGTCTCTCACTGGAAGCTACAGGTTACGGCAGG  
TTCACCTTCACTGGGGTCCGCTGATGACCACGGCTCCGAGCACATAGTAGAGTGGAGTGAGCTATGCTGC  
AGAGCTCCATGTTGTTCACTGGAATTCAGACAAATACCCAGCTTTGTTGAGGCAGCTCATGAACCAGAT  
GGACTGGCTGCTTGGGAGTGTTTTACAGATTGGTGAACCTAATTCCTCACTGCAAAAGATTACTGACA  
CTTTGGATTCCATTAAAGAAAAGGGTAAACAACTCGATTACAAATTTGACCTATTGTCTCTGCTTCC  
ACCATCTGGGACTACTGGACATATCCTGGTCTCTTACAGTTCCACCTCTTCTGAGAGTGTACATGG  
ATTGTTTTAAAGCAACCTATAACATCAGCTCTCAACAGCTGGCCAAATTCGCAGTCTCCTGTGCACAG  
CGGAGGTGAAGCAGCAGCTTTTCTGGTGAAGCAATCACCGCCACCACAGCTCTAAAGGGCCGAAAGT  
GAGAGCTCTTTCCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC208607 protein sequence  
Red=Cloning site Green=Tags(s)

MSRLSWGIREHNGPIHWKEFFPIADGDQQSPIEIKTKEVKYDSSLRPLSIKYDPSSAKIISNSGHSFNVD  
 FDDTENKSVLRGGPLTGSYRLRQVHLHWGSADDHGSEHIVDGVSYAAELHVVHWNNDKYPSPFVEAAHEPD  
 GLAVLGVFLQIGEPNSQLQKITDTLDSIKEKQTRFTNFDLLSLLPPSWDYWTYPGSLTVPPLESVTW  
 IVLKQPINISSQQLAKFRSLLCTAEGEAAFLVSNHRPPQPLKGRKVRASFH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6720\\_a02.zip](https://cdn.origene.com/chromatograms/mk6720_a02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_198584

**ORF Size:** 786 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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\\_198584.3](#)

**RefSeq Size:** 3855 bp

**RefSeq ORF:** 789 bp

**Locus ID:** 377677

**UniProt ID:** [Q8N1Q1](#)

**Cytogenetics:** 8q21.2

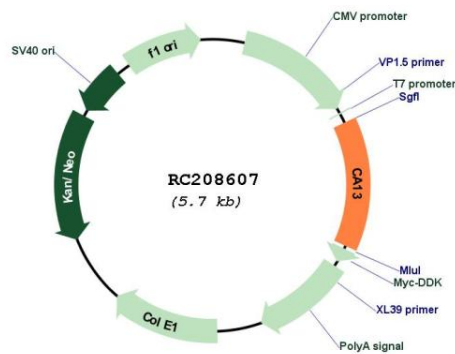
**Protein Families:** Druggable Genome

**Protein Pathways:** Nitrogen metabolism

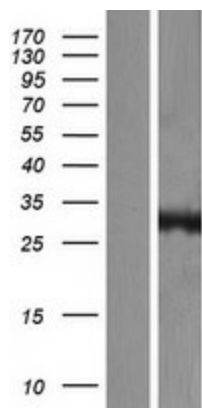
**MW:** 29.4 kDa

**Gene Summary:** Carbonic anhydrases (CAs) are a family of zinc metalloenzymes. For background information on the CA family, see MIM 114800.[supplied by OMIM, Mar 2008]

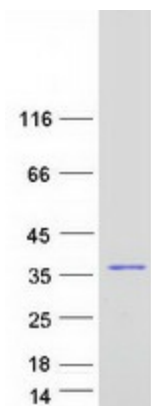
### Product images:



Circular map for RC208607



Western blot validation of overexpression lysate (Cat# [LY404835]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208607 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CA13 protein (Cat# [TP308607]). The protein was produced from HEK293T cells transfected with CA13 cDNA clone (Cat# RC208607) using MegaTran 2.0 (Cat# [TT210002]).