

Product datasheet for **RC232457**

CA6 (NM_001270500) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CA6 (NM_001270500) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CA6
Synonyms: CA-VI; GUSTIN
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC232457 representing NM_001270500
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGGCCCTGGTGCTTCTGCTGTCCCTGTTCTGCTGGGTGGCCAGGCCAGCATGTGTCTGACTGGA
 CCTACTCAGAAGGGGCACTGGACGAAGCGCACTGGCCACAGCACTACCCCGCTGTGGGGCCAGAGACA
 GTCGCCTATCAACCTACAGAGGACGAAGGTGCGGTACAACCCCTCCTGAAGGGGCTCAATATGACAGGC
 TATGAGACCCAGGCAGGGGAGTTCCTCCATGGTCAACAATGGCCACACAGTGCAGATCAGCCTGCCCTCA
 CCATGCGCATGACAGTGGCTGACGGCACTGTATACATAGCCAGCAGATGCACTTTCAGTGGGGAGGTGC
 GTCTCGGAGATCAGCGCTCTGAGCACACCGTGGACGGGATCAGACATGTGATCGAGATTCACATTGTT
 CACTACAATTCTAAATACAAGAGCTATGATATAGCCCAAGATGCCCGGATGGTTTGCTGTACTGGCAG
 CCTTCGTTGAGGTGAAGAATTACCCTGAAAACACTTATTACAGCAACTTCATTTCTCATCTGGCCAACAT
 CAAGTACCCAGGACAAAGAACAACCTGACTGGCCTTGACGTTTCAGGACATGCTGCCAGGAACCTCCAG
 CACTACTACACCTACCATGGCTCACTCACCACGCTCCCTGCACTGAGAACGTCCTGTTTGTGCTGG
 CAGATTTGTCAAGCTCTCCAGGACACAGGTTTGAAGCTGGAGAATTCCTTACTGGATCACCAGCAACA
 GACCATCCACAACGATTACCGCAGGACCCAGCCCTGAACCACAGAGTGGTGAATCCAACTTCCCGAAT
 CAGGGCAAGGGCCACGGGGGCATCGTGGGAGAAGCCAAAATCCAAGAGTACAGCCACCTCAACACGCC
 ACCCCTGGCTCTGGGCAGCTTAGAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232457 representing NM_001270500
Red=Cloning site Green=Tags(s)

MRALVLLLSLFLGGQAQHVSDWYSEALDEAHWPQHYPACGGQRQSPINLQRTKVRYNPSLKGLNMTG
 YETQAGEFPMVNNGHTVQISLPSTMRMTVADGTVYIAQQMHFWGGASSEISGSEHTVDGIRHVIEIHIV
 HYNKYKSYDIAQDAPDGLAVLA AFVEVKNY PENTYYSNF ISHLANIKYPGQRTTLTGLDVQDMLPRNLQ
 HYYTYHGSLTTPPCTENVHWFVLADFVKLSRTQVWKLENSLLDHRNKTIHNDYRRTQPLNHRVVESNFPN
 QKKGHGHRGRSQNPRVQPTSTRHPLALGSLEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001270500

ORF Size: 939 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_001270500.2](#)

RefSeq Size: 995 bp

RefSeq ORF: 942 bp

Locus ID: 765

UniProt ID: [P23280](#)

Cytogenetics: 1p36.23

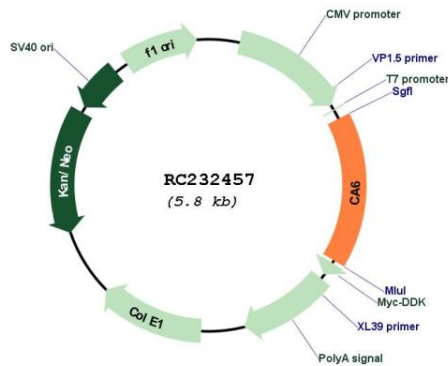
Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Nitrogen metabolism

MW: 35.8 kDa

Gene Summary: The protein encoded by this gene is one of several isozymes of carbonic anhydrase. This protein is found only in salivary glands and saliva and protein may play a role in the reversible hydration of carbon dioxide though its function in saliva is unknown. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC232457