

## Product datasheet for RC232277

### CA6 (NM\_001270501) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: CA6 (NM\_001270501) Human Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: CA6  
 Synonyms: CA-VI; GUSTIN  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >RC232277 representing NM\_001270501  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGGCCCTGGTGCTTCTGCTGTCCCTGTTCTGCTGGGTGGCCAGGCCAGCATGTGTCTGACTGGA  
 CCTACTCAGTGCAGATCAGCCTGCCCTCCACCATGCGCATGACAGTGGCTGACGGCACTGTATACATAGC  
 CCAGCAGATGCACTTTCCTGGGAGGTGCGTCCCTCGGAGATCAGCGGCTCTGAGCACACCGTGGACGGG  
 ATCAGACATGTGATCGAGATTCACATTGTTCACTACAATTCTAAATACAAGAGCTATGATATAGCCCAAG  
 ATGCGCCGGATGGTTTGGCTGTACTGGCAGCCTTCGTTGAGGTGAAGAATTACCTGAAAACACTTATTA  
 CAGCAACTTCATTTCTCATCTGGCCAACATCAAGTACCCAGGACAAGAACAACCCTGACTGGCCTTGAC  
 GTTCAGGACATGCTGCCAGGAACCTCCAGCACTACTACACCTACCATGGCTCACTACCCAGCCTCCCT  
 GCACTGAGAACGTCCTGTTTGTGCTGGCAGATTTTGTCAAGCTCTCCAGGACACAGGTTTGGAAAGCT  
 GGAGAATTCCTTACTGGATCACCGCAACAAGACCATCCACAACGATTACCGCAGGACCCAGCCCTGAAC  
 CACAGAGTGGTGAATCCAACCTCCCGAATCAGGAATACACTTAGGCTCTGAATCCAGTTTTACCTAC  
 ATAAGATTGAGGAAATCTTGACTACTTAAGAAGAGCATTGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC232277 representing NM\_001270501  
 Red=Cloning site Green=Tags(s)

MRALVLLLSLFLGGQAQHVSDWTVSVQISLPSTMRMTVADGTVYIAQQMHFWGGASSEISGSEHTVDG  
 IRHVIEIHIVHYNKYKSYDIAQDAPDGLAVLAFAFVEVKNYPTENTYYSNFI SHLANIKYPGQRTTLTGLD  
 VQDMLPRNLQHYTTYHGSLTPPCTENVHWFVLADFVKLSRTQVWKLENSLLDHRNKTIHNDYRRTQPLN  
 HRVVESNFPNQEYTLGSEFQFYLHKIEEILDYLRRLN

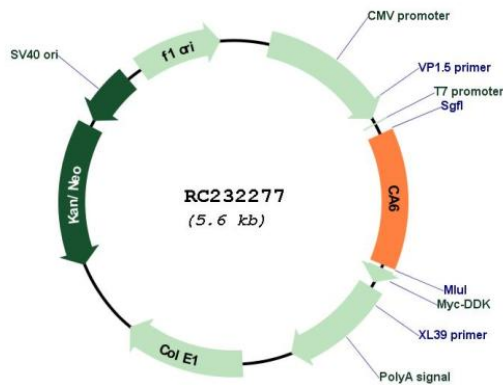
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001270501  
**ORF Size:** 744 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001270501.2</a>
<b>RefSeq Size:</b>	1198 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	765
<b>UniProt ID:</b>	<a href="#">P23280</a>
<b>Cytogenetics:</b>	1p36.23
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Nitrogen metabolism
<b>MW:</b>	29.1 kDa
<b>Gene Summary:</b>	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]