

Product datasheet for **SC334056**

Carbonic Anhydrase II (CA2) (NM_001293675) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carbonic Anhydrase II (CA2) (NM_001293675) Human Untagged Clone
Tag:	Tag Free
Symbol:	CA2
Synonyms:	CA-II; CAC; CAII; Car2; HEL-76; HEL-S-282
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC334056 representing NM_001293675. Blue=Insert sequence Red=Cloning site Green=Tag(s)

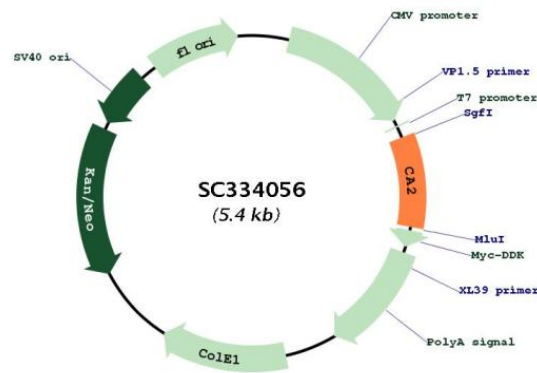
```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTCATGCTTCAACGTGGAGTTTGATGACTCTCAGGACAAAGCAGCTTCACTTGGTTCACTGGAAC
ACCAAATATGGGGATTTGGGAAAGCTGTGCAGCAACCTGATGGACTGGCCGTTCTAGGTATTTTTTG
AAGTTGGCAGCGCTAAACCGGGCCTTCAGAAAGTTGTTGATGTGCTGGATTCCATTAACAAAGGGC
AAGAGTGCTGACTTCACTAACTTCGATCCTCGTGGCCTCCTTCTGAATCCTGGATTACTGGACCTAC
CCAGGCTCACTGACCACCCCTCCTTCTGGAATGTGTGACCTGGATTGTGCTCAAGGAACCCATCAGC
GTCAGCAGCGAGCAGGTGTTGAAATTCGTAACCTTAACTTCAATGGGGAGGGTGAACCCGAAGAAGT
ATGGTGGACAACCTGGCGCCAGCTCAGCCACTGAAGAACAGGCAATCAAGCTTCTTCAATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



[View online »](#)

Plasmid Map:



ACCN: NM_001293675

Insert Size: 480 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001293675.1](#)

RefSeq Size: 1547 bp

RefSeq ORF: 480 bp

Locus ID: 760

Cytogenetics: 8q21.2

Protein Families: Druggable Genome

Protein Pathways: Nitrogen metabolism

MW: 17.9 kDa

Gene Summary: The protein encoded by this gene is one of several isozymes of carbonic anhydrase, which catalyzes reversible hydration of carbon dioxide. Defects in this enzyme are associated with osteopetrosis and renal tubular acidosis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2014]
Transcript Variant: This variant (2) lacks an alternate coding exon and initiates translation at a downstream AUG compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1.