

#### OriGene Technologies, Inc.

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# Product datasheet for RC201974

# Carbonic Anhydrase II (CA2) (NM\_000067) Human Tagged ORF Clone

## Product data:

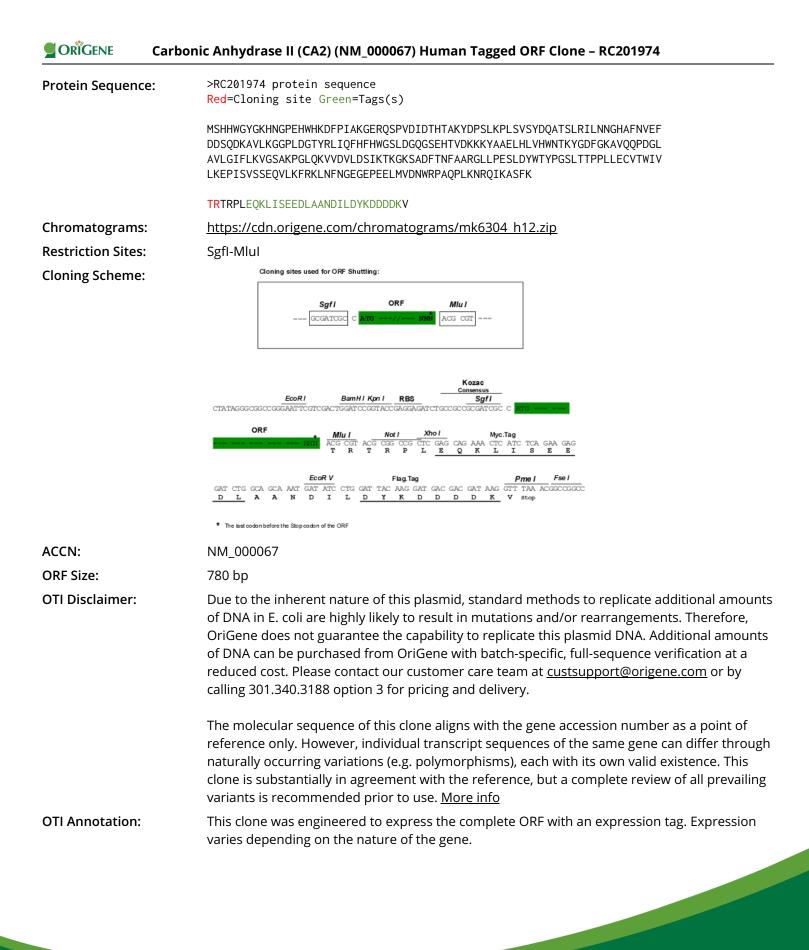
Product Type:	Expression Plasmids
Product Name:	Carbonic Anhydrase II (CA2) (NM_000067) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Carbonic Anhydrase II
Synonyms:	CA-II; CAC; CAII; Car2; HEL-76; HEL-S-282
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC201974 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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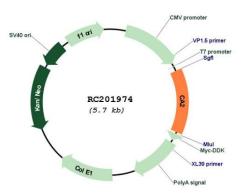
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Carbonic Anhydrase II (CA2) (NM_000067) Human Tagged ORF Clone – RC201974	
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 000067.3</u>
RefSeq Size:	1666 bp
RefSeq ORF:	783 bp
Locus ID:	760
UniProt ID:	<u>P00918</u>
Cytogenetics:	8q21.2
Domains:	carb_anhydrase
Protein Families:	Druggable Genome
Protein Pathways:	Nitrogen metabolism
MW:	29.2 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]

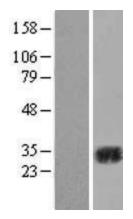
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## **Product images:**

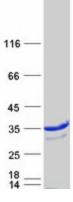


Circular map for RC201974



Western blot validation of overexpression lysate (Cat# [LY424943]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201974 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified CA2 protein (Cat# [TP301974]). The protein was produced from HEK293T cells transfected with CA2 cDNA clone (Cat# RC201974) using MegaTran 2.0 (Cat# [TT210002]).

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