

# Product datasheet for RC210228

# CA8 (NM\_004056) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

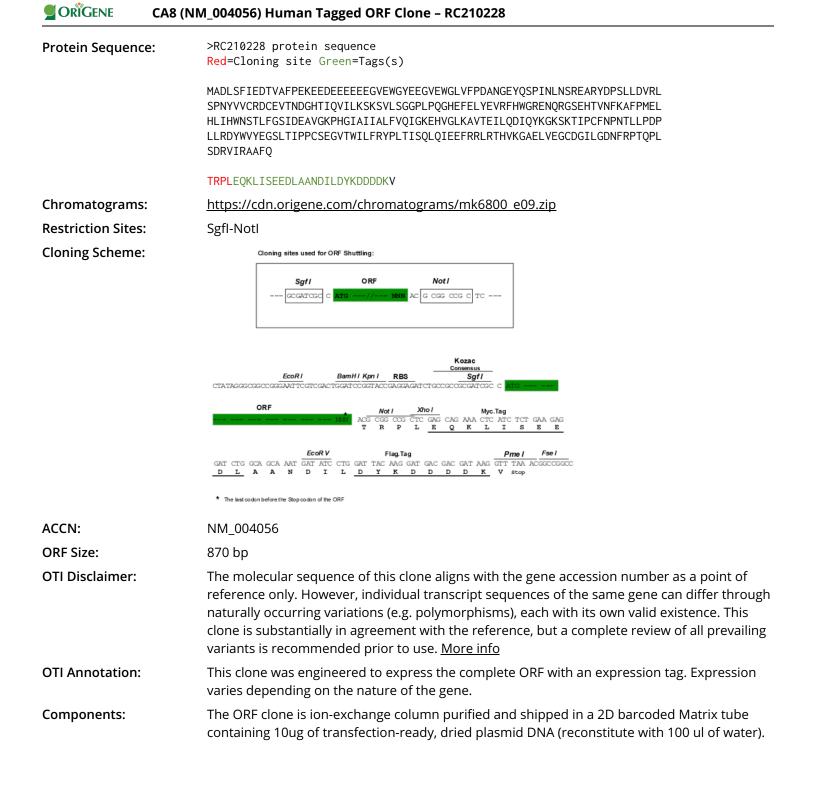
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Product Type:	Expression Plasmids
Product Name:	CA8 (NM_004056) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CA8
Synonyms:	CA-RP; CA-VIII; CALS; CAMRQ3; CARP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC210228 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA TTACAAGGATGACGACGATAAGGTTTAA



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# Scale CA8 (NM\_004056) Human Tagged ORF Clone – RC210228

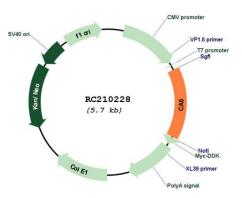
<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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>
Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<u>NM 004056.6</u>
2278 bp
873 bp
767
<u>P35219</u>
8q12.1
carb_anhydrase
Druggable Genome
Nitrogen metabolism
33 kDa
The protein encoded by this gene was initially named CA-related protein because of sequence similarity to other known carbonic anhydrase genes. However, the gene product lacks carbonic anhydrase activity (i.e., the reversible hydration of carbon dioxide). The gene product continues to carry a carbonic anhydrase designation based on clear sequence identity to other members of the carbonic anhydrase gene family. The absence of CA8 gene transcription in the cerebellum of the lurcher mutant in mice with a neurologic defect suggests an important role for this acatalytic form. Mutations in this gene are associated with cerebellar ataxia, mental retardation, and dysequilibrium syndrome 3 (CMARQ3). Polymorphisms in this gene are associated with osteoporosis, and overexpression of this gene in osteosarcoma cells suggests an oncogenic role. Alternative splicing results in multiple

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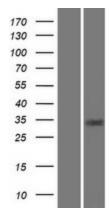
transcript variants. [provided by RefSeq, Mar 2016]



### **Product images:**

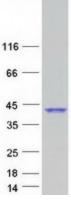


Circular map for RC210228



Western blot validation of overexpression lysate (Cat# [LY418248]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210228 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified CA8 protein (Cat# [TP310228]). The protein was produced from HEK293T cells transfected with CA8 cDNA clone (Cat# RC210228) using MegaTran 2.0 (Cat# [TT210002]).

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