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# Product datasheet for RC201187L3V

## Carbonic Anhydrase XI (CA11) (NM_001217) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | Carbonic Anhydrase XI (CA11) (NM_001217) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | Carbonic Anhydrase XI |
| **Synonyms:** | CA-RP; CA-RP II; CA-XI; CARP-2; CARPX1 |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| **Tag:** | Myc-DDK |
| **ACCN:** | NM_001217 |
| **ORF Size:** | 984 bp |
| **ORF Nucleotide Sequence:** | `The ORF insert of this clone is exactly the same as(RC201187).` |
| **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. |
| **RefSeq:** | NM_001217.3 |
| **RefSeq Size:** | 1686 bp |
| **RefSeq ORF:** | 987 bp |
| **Locus ID:** | 770 |
| **UniProt ID:** | O75493 |
| **Cytogenetics:** | 19q13.33 |
| **Domains:** | carb_anhydrase |
| **Protein Families:** | Druggable Genome, Secreted Protein |

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**MW:** 36.2 kDa

**Gene Summary:** Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA XI is likely a secreted protein, however, radical changes at active site residues completely conserved in CA isozymes with catalytic activity, make it unlikely that it has carbonic anhydrase activity. It shares properties in common with two other acatalytic CA isoforms, CA VIII and CA X. CA XI is most abundantly expressed in brain, and may play a general role in the central nervous system. [provided by RefSeq, Jul 2008]