

## Product datasheet for **RC201066L4V**

### Carbonic Anhydrase III (CA3) (NM\_005181) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Carbonic Anhydrase III (CA3) (NM_005181) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Carbonic Anhydrase III
Synonyms:	CAIII; Car3
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_005181
ORF Size:	780 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC201066).
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. <a href="#">More info</a>
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:	<a href="#">NM_005181.2</a>
RefSeq Size:	1753 bp
RefSeq ORF:	783 bp
Locus ID:	761
UniProt ID:	<a href="#">P07451</a>
Cytogenetics:	8q21.2
Domains:	carb_anhydrase
Protein Families:	Druggable Genome



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**Protein Pathways:** Nitrogen metabolism

**MW:** 29.6 kDa

**Gene Summary:** Carbonic anhydrase III (CAIII) is a member of a multigene family (at least six separate genes are known) that encodes carbonic anhydrase isozymes. These carbonic anhydrases are a class of metalloenzymes that catalyze the reversible hydration of carbon dioxide and are differentially expressed in a number of cell types. The expression of the CA3 gene is strictly tissue specific and present at high levels in skeletal muscle and much lower levels in cardiac and smooth muscle. A proportion of carriers of Duchenne muscle dystrophy have a higher CA3 level than normal. The gene spans 10.3 kb and contains seven exons and six introns. [provided by RefSeq, Oct 2008]