

## Recombinant Full Length Human CA8 Protein, GST-tagged

**Cat. No.** CA8-2744HF    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human CA8 full-length ORF (NP_004047.3, 1 a.a. - 290 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	290 amino acids
<b>Description</b>	<p>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 transcript variants. [provided by RefSeq, Mar 2016]</p>
<b>Molecular Mass</b>	59.4 kDa
<b>AA Sequence</b>	MADLSFIEDTVAFPEKEEDEEEEEEGVEWGYEEGVEWGLVFPDANGEYQSPINLNS

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REARYDPSLLDVRLSPNYVVCRDCEVTNDGHTIQVILKSKSVLSGGPLPQGHEFELY  
 EVRFHWGRENQRGSEHTVNFKAFFMELHLIHWNSTLFGSIDEAVGKPHGIAIALFV  
 QIGKEHVGLKAVTEILQDIQYKKGSKTIPCFNPNTLLPDPLLRDYWVYEGSLTIPPCSE  
 GVTWILFRYPLTISQLQIEEFRRLRTHVKGAELVEGCDGILGDNFRPTQPLSDRVIRA  
 AFQ

**Applications**  
 Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**  
 Best use within three months from the date of receipt of this protein.

**Storage**  
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**  
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** [CA8 carbonic anhydrase VIII \[ Homo sapiens \]](#)

**Official Symbol** [CA8](#)

**Synonyms**  
 CA8; carbonic anhydrase VIII; CALS; carbonic anhydrase-related protein; CARP; CA-related protein; carbonate dehydratase; carbonic anhydrase-like sequence; CAMRQ3; CA-VIII; MGC99509; MGC120502;

**Gene ID** [767](#)

**mRNA Refseq** [NM\\_004056](#)

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**Protein Refseq** NP\_004047

**MIM** 114815

**UniProt ID** P35219

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