

# Recombinant Full Length Human CRYBB1 Protein, GST-tagged

Cat. No. CRYBB1-2138HF Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Human CRYBB1 full-length ORF ( AAH36790.1, 1 a.a. - 252 a.a.) recombinant protein with GST-tag at N-terminal.

### Species

Human

### Source

In Vitro Cell Free System

### ProteinLength

252 amino acids

### Description

Crystallins are separated into two classes: taxon-specific, or enzyme, and ubiquitous. The latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. Since lens central fiber cells lose their nuclei during development, these crystallins are made and then retained throughout life, making them extremely stable proteins. Mammalian lens crystallins are divided into alpha, beta, and gamma families; beta and gamma crystallins are also considered as a superfamily. Alpha and beta families are further divided into acidic and basic groups. Seven protein regions exist in crystallins: four homologous motifs, a connecting peptide, and N- and C-terminal extensions. Beta-crystallins, the most heterogeneous, differ by the presence of the C-terminal extension (present in the basic group, none in the acidic group). Beta-crystallins form aggregates of different sizes and are able to self-associate to form dimers or to form heterodimers with other beta-crystallins. This gene, a beta basic group member, undergoes extensive cleavage at its N-terminal extension during lens maturation. It is also a

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

member of a gene cluster with beta-A4, beta-B2, and beta-B3. [provided by RefSeq, Jul 2008]

**Molecular Mass** 53.46 kDa

**AA Sequence**  
 MSQAAKASASATVAVNPGPDTKGGKAPPAGTSPSPGTTLAPTTVPITSAKAAELPPG  
 NYRLVVFELNFQGRRAEFSGECSNLADRGFDRVRSIIVSAGPWVAFEQSNFRGEM  
 FILEKGEYPRWNTWSSSYRSDRLMSFRPIKMDAQEHKISLFEGANFKGNTIEIQGDD  
 APSLWVYGFSDRVGSVKVSSGTWVGYYQYQYRGYQYLLEPGDFRHWNEWGAFQ  
 PQMQSLRRLRDKQWHLEGSFPVLATEPPK

**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** CRYBB1 crystallin, beta B1 [ Homo sapiens ]

**Official Symbol** CRYBB1

**Synonyms** CRYBB1; crystallin, beta B1; beta-crystallin B1; beta-B1 crystallin; eye lens structural protein; CATCN3

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Gene ID	1414
mRNA Refseq	NM_001887
Protein Refseq	NP_001878
MIM	600929
UniProt ID	P53674

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA