

Product datasheet for **RC222889**

CRYGD (NM_006891) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CRYGD (NM_006891) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CRYGD
Synonyms: CACA; CCA3; CCP; cry-g-D; CRYG4; CTRCT4; PCC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC222889 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAAGATCACCTCTACGAGGACCGGGCTTCCAGGGCCGCCACTACGAATGCAGCAGCGACCACC
CCAACCTCGAGCCCTACTTGAGCCGCTGCAACTCGGCGCGCTGGACAGCGGCTGCTGGATGCTCTATGA
GCAGCCCACTACTCGGGCTCCAGTACTTCTGCGCCGCGGCGACTATGCCACCACCAGCAGTGGATG
GGCTCAGCGACTCGGTCCGCTCCTGCCCTCATCCCCACTCTGGCTCTCACAGGATCAGACTCTATG
AGAGGGAGGACTACAGAGCCAGATGATAGAGTCACTGAGGACTGCTCCTGTCTTCAGGACCGCTCCG
CTTCAATGAAATCCACTCCCTCAACGTGCTGGAGGGCTCCTGGTCTCTACGAGCTGTCCAACACCGA
GGACGGCAGTACCTGCTGATGCCAGGGGACTATAGGCGCTACCAGGACTGGGGGCCACGAATGCCAGAG
TGGGCTCTGAGGAGAGTCATAGATTTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222889 protein sequence
Red=Cloning site Green=Tags(s)

MGKITLYEDRGFQGRHYECSSDHPNLQPYLSRCNSARVDSGCWMLYEQPNYSLQYFLRRGDYADHQQWM
GLSDSVRSCRLIPHSGSHRIRLYEREDYRGQMIETFEDCSCLQDRFRFNEIHSLNVLEGSWVLYELSNYR
GRQYLLMPGDYRRYQDWGATNARVGLRRVIDFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6464_c05.zip



[View online »](#)

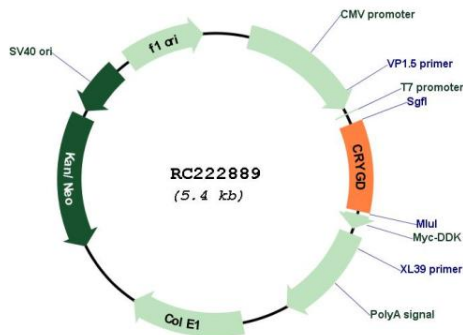
Cytogenetics: 2q33.3

Protein Families: Druggable Genome

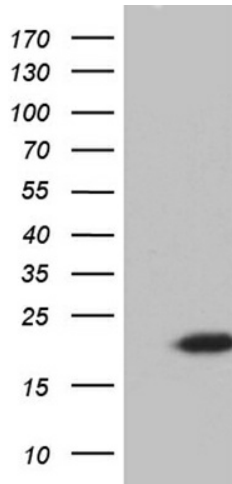
MW: 20.7 kDa

Gene Summary: 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. Gamma-crystallins are a homogeneous group of highly symmetrical, monomeric proteins typically lacking connecting peptides and terminal extensions. They are differentially regulated after early development. Four gamma-crystallin genes (gamma-A through gamma-D) and three pseudogenes (gamma-E, gamma-F, gamma-G) are tandemly organized in a genomic segment as a gene cluster. Whether due to aging or mutations in specific genes, gamma-crystallins have been involved in cataract formation. [provided by RefSeq, Jul 2008]

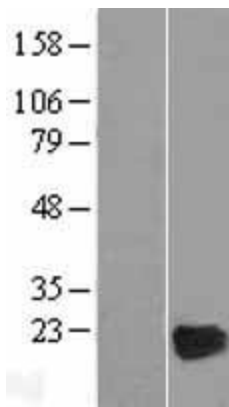
Product images:



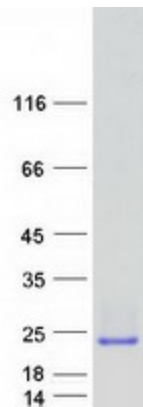
Circular map for RC222889



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CRYGD (Cat# RC222889, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CRYGD (Cat# [TA811958]). Positive lysates [LY416332] (100ug) and [LC416332] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416332]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222889 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CRYGD protein (Cat# [TP322889]). The protein was produced from HEK293T cells transfected with CRYGD cDNA clone (Cat# RC222889) using MegaTran 2.0 (Cat# [TT210002]).