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Product datasheet for RC222420

CRYBA4 (NM_001886) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRYBA4 (NM_001886) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CRYBA4
Synonyms:	CTRCT23; CYRBA4; MCOPCT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC222420 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCCTGCAATGCACAAAGTCAGCGGGACCCTGGAAGATGGTGGTGTGGGATGAGGACGGCTTCCAGG
GCCGGCGGCACGAGTTCACGGCCGAGTGCCCCAGCGTGCTGGAGCTTGGCTTCGAGACTGTGCGATCTTT
GAAAGTGCTGAGTGGAGCGTGGGTGGGCTTCGAGCATGCTGGCTTCCAAGGGCAGCAGTACATTCTGGAA
CGAGGCGAATATCCAAGCTGGGATGCCTGGGGCGGCAACACGGCCTACCCCGCCGAGAGGCTCACCTCCT
TCCGGCCTGCGGCCTGTGCTAACCACCGTGACTCGAGGCTGACAATCTTCGAGCAAGAGAACTTCCTGGG
CAAGAAAGGAGAGCTGAGCGATGACTATCCTTCCCTCCAGGCCATGGGATGGGAAGGCAATGAAGTAGGG
TCCTTCCACGTCCACTCTGGGGCCTGGGTTTGCTCCCAGTTTCCGGGCTACCGAGGATTTCAGTATGTGC
TGGAATGCGATCACCATTCCGGTGACTACAAACATTTCCGGGAGTGGGGCTCTCATGCCCCGACCTTCCA
GGTGCAGAGCATCCGCAGGATCCAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222420 protein sequence
Red=Cloning site Green=Tags(s)

MTLQCTKSAGPWKMVVWDEDGFQGRRHEFTAECPSVLELGFETVRSLKVLSGAWVGFEHAGFQGQQYILE
RGEYPSWDAWGGNTAYPAERLTSFRPAACANHRDSRLTIFEQENFLGKKGELSDDYPSLQAMGWEGNEVG
SFHVHSGAWVCSQFPGYRGFQYVLECDHHSGDYKHFREWGSHAPTFQVQSIRRIQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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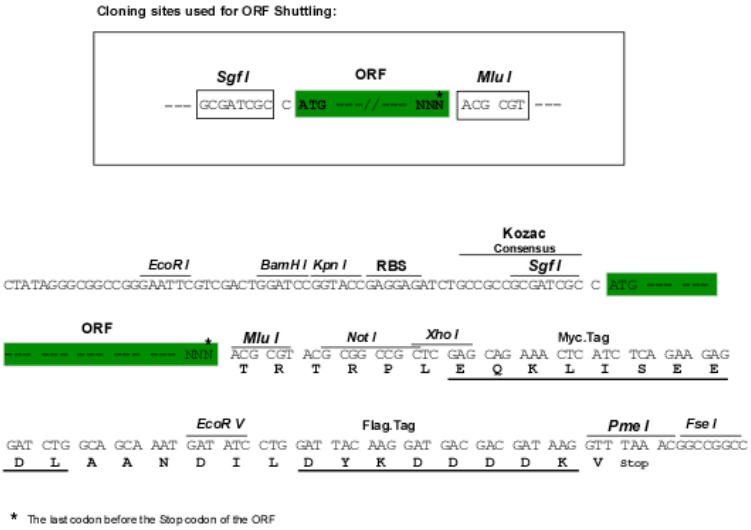
Chromatograms: https://cdn.origene.com/chromatograms/mk6450_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001886

ORF Size: 588 bp

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.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_001886.3

RefSeq Size: 828 bp

RefSeq ORF: 591 bp

Locus ID: 1413

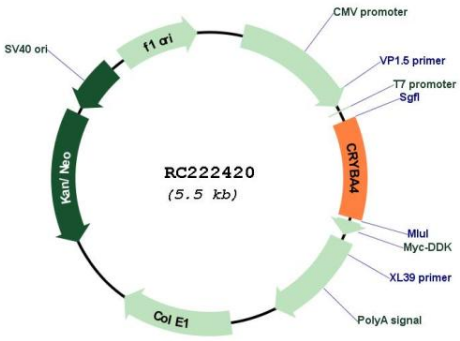
UniProt ID: P53673

Cytogenetics: 22q12.1

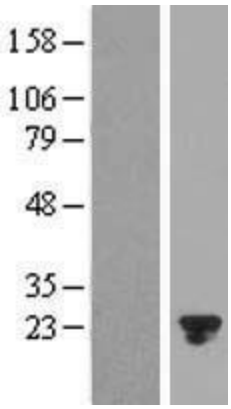
MW: 22.4 kDa

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. 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 acidic group member, is part of a gene cluster with beta-B1, beta-B2, and beta-B3. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC222420



Western blot validation of overexpression lysate (Cat# [LY419683]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222420 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).