

## Product datasheet for RC225211

### CRYZ (NM\_001134759) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CRYZ (NM\_001134759) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CRYZ  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC225211 representing NM\_001134759  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCATCTGCTTTCAAGTGCCTGTGTGAAAGCTGGAGAGAGTGTCTGGTTCATGGGGCAAGTGGAGGAG  
 TTGGATTAGCAGCATGCCAAATTGCTAGAGCTTATGGCTTAAAGATTTTGGGCACTGCTGGTACTGAGGA  
 AGGACAAAAGATTGTTTTGCAAAATGGAGCCCATGAAGTGTCAATCACAGAGAAGTGAATTACATTGAT  
 AAAATTAAGAAGTATGTTGGTGAGAAAGGAATTGATATAATTATTGAAATGTTAGCTAATGTAAATCTTA  
 GTAAAGACTTGAGTCTTCTGTGCATGGAGGACGAGTGATAGTTGTTGGCAGCAGAGGTACTATTGAAAT  
 AAACCCACGAGACACCATGGCAAAGGAGTCGAGTATAATTGGAGTTACTCTCTTTTCTCAACCAAGGAG  
 GAATTTTCAGCAATATGCAGCAGCCCTTCAAGCTGGAATGGAAATTGGCTGGTTGAAACCTGTGATAGGTT  
 CTCAATATCCATTGGAGAAGGTGGCCGAGGCTCATGAAATATCATTCATGGTAGTGGGGCTACTGGAAA  
 AATGATTCTTCTCTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC225211 representing NM\_001134759  
 Red=Cloning site Green=Tags(s)

MHLLSSACVKAGESVLVHGASGGVGLAACQIARAYGLKILGTAGTEEGQKIVLQNGAHEVFNHREVNYID  
 KIKKYVGEKGIDIIIEMLANVNLSKDL SLLSHGGRVIVVGSRGITIEINPRDTMAKESSIIGVTLSSTKE  
 EFQQYAAALQAGMEIGWLKPVIGSQYPLEKVAEAHENIIHSGATGKMILL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1255\\_g02.zip](https://cdn.origene.com/chromatograms/ja1255_g02.zip)



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001134759

**ORF Size:** 576 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001134759.1](#), [NP\\_001128231.1](#)

**RefSeq ORF:** 579 bp

**Locus ID:** 1429

UniProt ID: [Q08257](#)

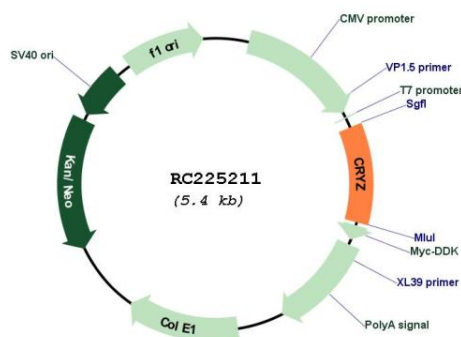
Cytogenetics: 1p31.1

Protein Families: Druggable Genome

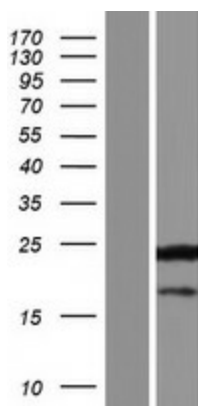
MW: 20.2 kDa

**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. The former class is also called phylogenetically-restricted crystallins. This gene encodes a taxon-specific crystallin protein which has NADPH-dependent quinone reductase activity distinct from other known quinone reductases. It lacks alcohol dehydrogenase activity although by similarity it is considered a member of the zinc-containing alcohol dehydrogenase family. Unlike other mammalian species, in humans, lens expression is low. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. One pseudogene is known to exist. [provided by RefSeq, Sep 2008]

## Product images:



Circular map for RC225211



Western blot validation of overexpression lysate (Cat# [LY427486]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225211 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).