

## Product datasheet for **RC225479**

### **CRYZ (NM\_001130042) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CRYZ (NM_001130042) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CRYZ
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC225479 representing NM_001130042 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGACTGGACAGAAGTTGATGAGAGCTGTTAGAGTTTTTGAATTTGGTGGACCAGAAGTCTGAAAT  
TGCGATCAGATATTGCAGTACCGATTCCAAAAGACCATCAGGTTCTAATCAAGGTCCATGCATGTGGTGT  
CAACCCCGTGGAGACATACATTCGCTCTGGTACTTATAGTAGAAAACCACTTTATCCTATACTCCTGGC  
TCAGATGTGGCTGGGGTGATAGAAGCTGTTGGAGATAATGCATCTGCTTTCAAGAAAGGTGACAGAGTTT  
TCACTAGCAGCACGATCTCTGGGGTTATGCAGAGTATGCTCTTGCAGCAGACCACACTGTTTACAAACT  
ACCTGAAAAACTGGACTTTAAACAAGGAGCTGCCATCGGCATTCCATATTTACTGCTTATCGAGCTCTG  
ATCCACAGTGCCTGTGTGAAAGCTGGAGAGAGTGTCTGGTTCATGGGGCAAGTGGAGGAGTTGGATTAG  
CAGCATGCCAAATTGCTAGAGCTTATGGCTTAAAGATTTGGGCACTGCTGGTACTGAGGAAGGACAAAA  
GATTGTTTTGCAAAATGGAGCCCATGAAGTGTCAATCACAGAGAAGTGAATTACATTGATAAAATTAAG  
AAGTATGTTGGTGAGAAAGGAATTGATATAATTATTGAAATGTTAGCTAATGTAATCTTAGTAAAGACT  
TGAGTCTTCTGTACATGGAGGACGAGTGATAGTTGTTGGCAGCAGAGGTAATTTGAAATAAACCACG  
AGACACCATGGCAAAGGAGTTCGAGTATAATTGGAGTACTCTCTTTTCCTCAACCAAGGAGGAATTCAG  
CAATATGCAGCAGCCCTCAAGCTGGAATGGAATTTGGCTGGTTGAAACCTGTGATAGGTTCTCAATATC  
CATTGGAGAAGGTGGCCGAGGCTCATGAAAATATCATTATGGTAGTGGGGCTACTGGTAAAATGATTCT  
TCTCTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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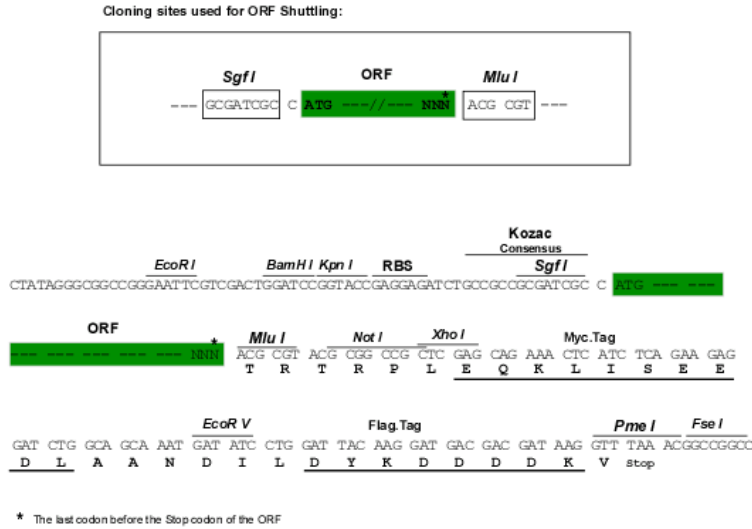
**Protein Sequence:** >RC225479 representing NM\_001130042  
 Red=Cloning site Green=Tags(s)

MATGQKLMRAVRVFEFGGPEVLKLRSDIAVPIPKDHQVLIKVHACGVNPVETYIRSGTYSRKPLLSYTPG  
 SDVAGVIEAVGDNASAFKKGDRVFTSSTISGGYAEYALAADHTVYKLEKLDKQAAIGIPYFTAYRAL  
 IHSACVKAGESVLVHGASGGVLAACQIARAYGLKILGTAGTEEGQKIVLQNGAHEVFNHREVNYIDKIK  
 KYVGEKGIDIIIEMLANVNL SKDLSLLSHGGRVIVVGSRTGIEINPRDTMAKESSIIGVTLFSSTKEEFQ  
 QYAAALQAGMEIGWLKPVIGSQYPLEKVAEAHENIIHGSGATGKMILL

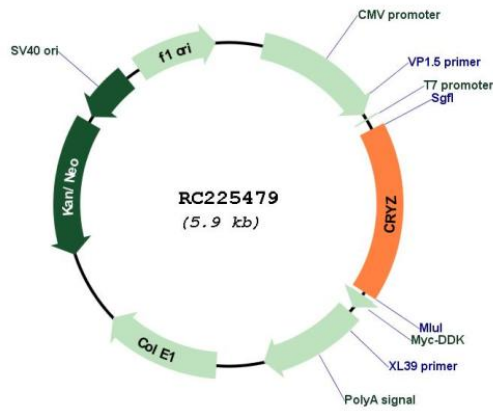
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001130042

<b>ORF Size:</b>	987 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001130042.1</a> , <a href="#">NP_001123514.1</a>
<b>RefSeq ORF:</b>	990 bp
<b>Locus ID:</b>	1429
<b>UniProt ID:</b>	<a href="#">Q08257</a>
<b>Cytogenetics:</b>	1p31.1
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	35 kDa
<b>Gene Summary:</b>	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]