

## Product datasheet for **SC322980**

### CRYZ (NM\_001130042) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CRYZ (NM_001130042) Human Untagged Clone
Tag:	Tag Free
Symbol:	CRYZ
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001130042, the custom clone sequence may differ by one or more nucleotides ATGGCGACTGGACAGAAGTTGATGAGAGCTGTTAGAGTTTTGAATTTGGTGGGCCAGAA GTCCTGAAATTGCGATCAGATATTGCAAGTACCGATTCCAAAAGACCATCAGGTTCTAATC AAGGTCCATGCATGTGGTGTCAACCCCGTGGAGACATACATTGCTCTGGTACTTATAGT AGAAAACCACTCTTACCCTATACTCCTGGCTCAGATGTGGCTGGGGTGATAGAAGCTGTT GGAGATAATGCATCTGCTTTCAAGAAAGGTGACAGAGTTTTCACTAGCAGCACGATCTCT GGGGGTTATGCAGAGTATGCTCTTGCAGCAGACCACACTGTTTACAACTACCTGAAAAA CTGGACTTTAAACAAGGAGCTGCCATCGGCATTCCATATTTTACTGCTTATCGAGCTCG ATCCACAGTGCCTGTGTGAAAGCTGGAGAGAGTGTCTGGTTCATGGGGCAAGTGGAGGA GTTGGATTAGCAGCATGCCAAATTGCTAGAGCTTATGGCTTAAAGATTTTGGGCACTGCT GGTACTGAGGAAGGACAAAAGATTGTTTTGCAAAATGGAGCCCATGAAGTGTCAATCAC AGAGAAGTGAATTACATTGATAAAATTAAGAAGTATGTTGGTGAGAAAGGAATTGATATA ATTATTGAAATGTAGCTAATGTAATCTTAGTAAAGACTTGAGTCTTCTGTCACATGGA GGACGAGTGATAGTTGTTGGCAGCAGAGGTAATTTGAAATAAACCACGAGACACCATG GCAAAGGAGTCGAGTATAAATTGGAGTACTCTCTTTTCTCAACCAAGGAGGAATTCAG CAATATGCAGCAGCCCTCAAGCTGGAATGGAATTTGGCTGGTTGAAACCTGTGATAGGT TCTCAATATCCATTGGAGAAGGTGGCCGAGGCTCATGAAAATATCATTGATGAGTGGG GCTACTGGAAAAATGATTCTTCTCTTA
Restriction Sites:	Please inquire
ACCN:	NM_001130042
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.



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<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>	<u>NM_001130042.1, NP_001123514.1</u>
<b>RefSeq Size:</b>	2317 bp
<b>RefSeq ORF:</b>	990 bp
<b>Locus ID:</b>	1429
<b>UniProt ID:</b>	<u>Q08257</u>
<b>Cytogenetics:</b>	1p31.1
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Variants 1 and 2 both encode isoform a.</p>