

## Product datasheet for **MC205177**

### Cryga (NM\_007774) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cryga (NM\_007774) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cryga  
**Synonyms:** Cryg-; Cryg-4; DGcry-; DGcry-4; Sec; Secc  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC056430  
GCTGTCAACAACGATGGGAAAGATCACCTTCTACGAGGACCGCGCTTCCAGGGCCGCTGCTATGAGTGC  
AGCAGCGACTGCCCAACCTGCAGACCTACTTCAGCCGCTGCAACTCCATCCGTGTGGACAGTGGCTGCT  
GGATGCTCTATGAGCGCCCAACTACCAGGGCTACCAGTACTTCCGTGCGTGGGACTACCCTGACTA  
CCAGCAGTGGATGGGTTTCAGCGACTCCATCCGCTCCTGCCGTTCCATTCCATACACCAGCTCTCACAGG  
ATAAGGCTTTATGAGAGAGATGACTACCGGGCCTTGTGTCTGAGCTCATGGACGACTGTTCTGCATCC  
ACGATCGTTCGGCTCCATGAGATCTACTCCATGCACGTGCTGGAGGGCTGCTGGGTCCTATGAGAT  
GCCCAACTACCGAGGCCCAATACCTGCTCAGGCCTGGAGACTACAGGCCTACCACGACTGGGGCGCC  
ATGGATGCCAAGGTGGCTCTCTGAGACGGTTCATGGATTTGACTAAGCCTCCTTTTGCTTGTACAGC  
CCATATATGCAATAAATAATCAACCTGTGTTCTGGCAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** AscI-NotI

**ACCN:** NM\_007774

**Insert Size:** 525 bp

**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).

**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).



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**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:** [BC056430](#), [AAH56430](#)

**RefSeq Size:** 617 bp

**RefSeq ORF:** 525 bp

**Locus ID:** 12964

**UniProt ID:** [P04345](#)

**Cytogenetics:** 1 32.84 cM

**Gene Summary:** Three main families of major soluble proteins, the alpha, beta and gamma crystallins, are ubiquitously expressed in vertebrate lenses. This gene encodes a member of the gamma-crystallin family of proteins which may function as a structural component of the eye lens. 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. Five gamma-crystallin genes (gamma-A through gamma-E) are tandemly organized in a genomic segment as a gene cluster in the mouse. Another gamma-crystallin gene (gamma-F) is found some distance upstream of the cluster on the same chromosome. Whether due to aging or mutations in specific genes, gamma-crystallins have been involved in cataract formation. [provided by RefSeq, Jul 2008]