

## Product datasheet for MC208338

### Cryba1 (NM\_009965) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids

Product Name: Cryba1 (NM\_009965) Mouse Untagged Clone

Tag: Tag Free

Symbol: Cryba1

Synonyms: BA3/; BA3/A1; Cry; Cryb

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >MC208338 representing NM\_009965  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGAGACCCAGACTGTGCAGCGGGAGTTGGAACTCTTCCAACCACCAAGATGGCTCAGACCAACCCTA  
 TGCCAGGATCCTTGGGGCCATGGAAGATAACCATCTACGATCAAGAGAACTTCAGGGCAAGAGGATGGA  
 GTTCACCAGCTCCTGCCAAATGTCTCTGAACGTAATTTTGATAATGTCCGGTCACTTAAGGTGGAGTGT  
 GGCGCCTGGATTGGTTATGAACACACCAGCTTCTGTGGGCAACAGTTCATCCTGGAAAGAGGAGAATACC  
 CTCGATGGGATGCCTGGAGCGGGAGCAATGCCTATCATATTGAGCGTCTCATGTCCTTCCGACCCATCTG  
 TTCCGCTAATCATAAAGAGTCTAAGATTACCATCTTCGAGAAAGAGAACTTTATTGGACGCCAGTGGGAA  
 ATCTGTGATGACTACCTTCCTTGCAAGCCATGGGTTGGTTCAACAATGAAGTTGGTTCCATGAAGATAC  
 AATGTGGGGCCTGGGTTTGCTACCAGTACCCTGGATATCGTGGTTATCAGTATATCTTGGAGTGTGACCA  
 CCATGGAGGAGACTACAAGCACTGGCCAGAGTGGGGATCTCACGCCAGACTTCCCAGATCCAATCAATT  
 CGCCGAATACAACAATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM\_009965

Insert Size: 648 bp


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<b>OTI Disclaimer:</b>	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).
<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><a href="#">NM_009965.3</a></u> , <u><a href="#">NP_034095.1</a></u>
<b>RefSeq Size:</b>	819 bp
<b>RefSeq ORF:</b>	648 bp
<b>Locus ID:</b>	12957
<b>Cytogenetics:</b>	11 46.74 cM
<b>Gene Summary:</b>	<p>Mammalian lens crystallins are divided into alpha, beta, and gamma families. 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, encodes two proteins (crystallin, beta A3 and crystallin, beta A1) from a single mRNA. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>