

## Product datasheet for MC206827

### Cryaa (BC092385) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cryaa (BC092385) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cryaa
Synonyms:	Acry-1; Crya-1; Crya1; DACry-1; lop18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC206827 representing BC092385. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC  
 ATGGACGTCAACATTCAGCATCCTTGGTTCAAGCGTGCCCTGGGGCCCTTCTACCCAGCCGACTGTTT  
 GACCAAGTTCTTCGGCGAGGGCCTTTTGTAGTACGACCTGCTGCCCTTCTGTCTTCCACCATCAGCCCC  
 TACTACCGCCAGTCCCTTTCGCACTGTGCTGGACTCGGGCATCTCTGAGGTCCGATCTGACCGGGAC  
 AAGTTTGTATCTTCTGGACGTGAAGCACTTCTCTCTGAGGACCTCACCGTGAAGGTACTGGAGGAT  
 TTTGTGGAGATTCACGGCAAACACAACGAGAGGAGGATGACCATGGCTACATTTCCCGTGAATTTAC  
 CGTCGCTACCGTCTGCCCTTCAATGTGGACAGTCCGCCCTCTCTGCTCCCTGTCTGCGGATGGCATG  
 CTGACCTTCTCTGCCCAAGGTCCAGTCCGTTTGGATGCTGGCCACAGCGAGAGGGCCATTCTGTG  
 TCACGGGAGGAGAAACCCAGCTCTGCACCTCGTCCCTGA  
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	BC092385
Insert Size:	522 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).



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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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">BC092385</a></u>
<b>RefSeq Size:</b>	1112 bp
<b>RefSeq ORF:</b>	521 bp
<b>Locus ID:</b>	12954
<b>Cytogenetics:</b>	17 17.09 cM
<b>MW:</b>	19.8 kDa
<b>Gene Summary:</b>	<p>This gene encodes subunit a, one of two subunits of alpha-crystallin, which is a high molecular weight, soluble aggregate and is a member of the small heat shock protein (sHSP) family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. It acts as a molecular chaperone and is the major protein in the eye lens, maintaining the transparency and refractive index of the lens. In mouse, deficiency in this gene is associated with smaller lenses and eyes and with increasing lens opacity with age. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]</p>