

## Product datasheet for MC206827

### Cryaa (BC092385) Mouse Untagged Clone

#### Product data:

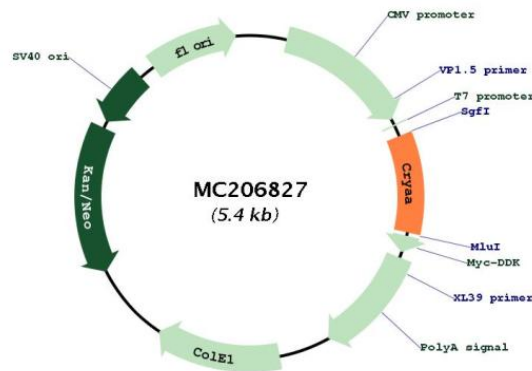
|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Cryaa (BC092385) Mouse Untagged Clone                                      |
| Tag:                      | Tag Free   |
| Symbol:                   | Cryaa  |
| 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.<br>Blue=ORF Red=Cloning site Green=Tag(s) |

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGGACGTCACCATTCAGCATCCTTGGTTCAAGCGTGCCCTGGGGCCCTTCTACCCAGCCGACTGTTC
GACCAGTTCCTCGCGAGGGCCTTTTTGAGTACGACCTGCTGCCCTTCTGTCTTCCACCATCAGCCCC
TACTACCGCCAGTCCCTTCCGCACTGTGCTGGACTCGGGCATCTCTGAGGTCCGATCTGACCGGGAC
AAGTTTGCATCTTCTTGACGTTGAAGCACTTCTCTCTGAGGACCTCACCGTGAAGGTACTGGAGGAT
TTTGTGGAGATTCACGGCAAACACAACGAGAGGCAGGATGACCATGGCTACATTTCCCGTGAATTTAC
CGTCGCTACCGTCTGCCTTCCAATGTGGACCAGTCCGCCCTCTCTGCTCCCTGTCTGCGGATGGCATG
CTGACCTTCTCTGGCCCCAAGGTCCAGTCCGGTTTGGATGCTGGCCACAGCGAGAGGGCCATTCTGTG
TCACGGGAGGAGAAACCCAGCTCTGCACCCTCGTCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: Sgfl-Mlul



[View online »](#)

**Plasmid Map:**


**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).

**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).

**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:** [BC092385](#)

**RefSeq Size:** 1112 bp

RefSeq ORF: 521 bp

Locus ID: 12954

Cytogenetics: 17 17.09 cM

MW: 19.8 kDa

**Gene Summary:** 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]