

Product datasheet for **MC226271**

Cryaa (NM_001278569) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cryaa (NM_001278569) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cryaa
Synonyms: Acry; Acry-1; Cry; Crya; Crya-1; Crya1; DAcry; DAcry-1; lop18
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226271 representing NM_001278569
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGACGTCACCATTAGCATCCTTGGTTCAAGCGTGCCTGGGGCCCTTCTACCCAGCCGACTGTTCC
ACCAGTCTTCGCGGAGGGCCTTTTGGTACGACCTGCTGCCCTTCTGTCTCCACCATCAGCCCTA
CTACCGCCAGTCCCTTCCGCACTGTGCTGGACTCGGGCATCTCTGAGCTCATGACCCATATGTGGTTT
GTAATGCACCAACCACATGCTGGAAACCCCAAGAACACCCCGTCAAGGCAAGTTACATGGCGAAGGTCC
GATCTGACCGGGACAAGTTTGTATCTTCTGGACGTGAAGCACTTCTCTCTGAGGACCTCACCGTGAA
GGTACTGGAGGATTTTGTGGAGATTCACGGCAAACACAACGAGAGGCAGGATGACCATGGCTACATTTCC
CGTGAATTTACCGTTCGCTACCGTCTGCCTTCCAATGTGGACAGTCCGCCCTCTCTGCTCCCTGTCTG
CGGATGGCATGCTGACCTTCTCTGGCCCCAAGTCCAGTCCGGTTTGGATGCTGGCCACAGCGAGAGGGC
CATTCTGTGTACGGGAGGAGAAACCCAGCTCTGCACCCTCGTCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001278569
Insert Size: 609 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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| OTI Annotation: | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| 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: | <ol style="list-style-type: none">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: | <u>NM_001278569.1</u> , <u>NP_001265498.1</u> |
| RefSeq Size: | 1214 bp |
| RefSeq ORF: | 609 bp |
| Locus ID: | 12954 |
| Cytogenetics: | 17 17.09 cM |
| Gene Summary: | <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> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p> |