

Product datasheet for RN216010

Cryaa (NM_001289737) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cryaa (NM_001289737) Rat Untagged Clone
Tag: Tag Free
Symbol: Cryaa
Synonyms: Acry-1; Crya1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >RN216010 representing NM_001289737
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGTCACCATCCAGCACCCCTGGTTCAAGCGCGCCCTGGGGCCCTTCTACCCAGCCGACTGTTCCG
 ACCAGTTCTTCGGCGAGGGCCTTTTTGAATACGACCTGCTGCCCTTCTGTCTTCCACCATCAGCCCTA
 CTACCGCCAGTCTCTTCCGCACAGTGTGGACTCCGGCATCTCTGAGCTCATGACCCATATGTGGTTT
 GTAATGCACCAACCACATGCTGGAAACCCCAAGAACAACCCCGCAAGGTCGGATCTGACCGGGACAAGT
 TTGTCATCTTCTGGATGTGAAGCACTTCTCTCCTGAGGACCTCACCGTGAAGGTAAGGATTTTCGT
 GGAGATCCATGGCAAACAACGAGAGGAGGATGACCATGGCTACATTTCCCGTGAATTTACCGTCGC
 TACCGTCTGCCTTCCAATGTGGACCAAGTCCGCCCTCTCCTGCTCCTGTCTGCGGATGGCATGCTGACCT
 TCTCTGGCCCCAAGGTCAGTCTGGCTTGGATGCTGGCCACAGCGAGAGGGCCATTCCCCTGTCACGGGA
 GGAGAAGCCCAGCTCGGCACCCTCGTCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001289737
Insert Size: 591 bp



[View online »](#)

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).
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_001289737.1</u> , <u>NP_001276666.1</u>
RefSeq Size:	1120 bp
RefSeq ORF:	591 bp
Locus ID:	24273
UniProt ID:	<u>P24623</u>
Cytogenetics:	20p12
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 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]</p> <p>Transcript Variant: This variant (2) includes an alternate in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2, also known as alpha Ains-crystallin) is longer, compared to isoform 1.</p>