

Product datasheet for RN201509

Cryaa (NM_012534) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cryaa (NM_012534) 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:	>RN201509 representing NM_012534 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGTCACCATCCAGCACCCTTGGTTCAAGCGCGCCCTGGGGCCCTTCTACCCAGCCGACTGTTCCG
ACCAGTCTTCGGCGAGGGCCTTTTGAATACGACCTGCTGCCCTTCTGTCTCCACCATCAGCCCTA
CTACCGCCAGTCTCTCTCCGCACAGTGTGGACTCCGGCATCTCTGAGGTCGGATCTGACCGGACAAG
TTTGTTCATCTTCTGGATGTGAAGCACTCTCTCTGAGGACCTACCGTGAAGGTAAGGATTTCCG
TGGAGATCCATGGCAAACAACGAGAGGCAGGATGACCATGGCTACATTTCCCGTGAATTTACCGTCCG
CTACCGTCTGCCTTCCAATGTGGACCAAGTCCGCCCTCTCCTGCTCCTTGCTGCGGATGGCATGCTGACC
TTCTCTGGCCCAAGGTCCAGTCTGGCTTGGATGCTGGCCACAGCGAGAGGGCCATTCCCGTGTCCACGGG
AGGAGAAGCCAGCTCGGCACCCTCGTCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_012534
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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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:	NM_012534.4 , NP_036666.2
RefSeq Size:	1126 bp
RefSeq ORF:	522 bp
Locus ID:	24273
UniProt ID:	P24623
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 (1) encodes the shorter isoform (1).</p>