

Product datasheet for MR228292

Cryab (NM_001289784) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cryab (NM_001289784) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Cryab

Synonyms: Cry; Crya; Crya-2; Crya2; Hsp; HspB5; P23

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR228292 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGACATCGCCATCCACCACCCCTGGATCCGGCGCCCCTTCTTCCCCTTCCACTCCCCAAGCCGCCTCT TCGACCAGTTCTTCGGAGAGACACCTGTTGGAGTCTGACCTCTTCTCAACAGCCACTTCCCTGAGCCCCTT CTACCTTCGGCCACCCTCCTTCCTGCGGGCACCCCAGCTGGATTGACACCGGACTCTCAGAGATGCGTTTG GAGAAGGACAGATTCTCTGTGAATCTGGACGTGAAGCACTTCTCCCGGAGGAACTCAAAGGTCAAGGTTC TGGGGGACGTGATTGAGGTCCACGGCAAGCACGAAGAACGCCAGGACGAACATGGCTTCATCTCCAGGGA GTTCCACAGGAAGTACCGGATCCCAGCCGATGTGGATCCTCTCACCATCACTTCATCCCTGTCATCTGAT GGAGTCCTCACTGTGAATGGACCAAGGAACACAGGTGTCTGGCCCTGAGCGCACCATTCCCATCACCCGTG

AAGAGAAGCCTGCTGTCGCCGCAGCCCCTAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228292 protein sequence

Red=Cloning site Green=Tags(s)

MDIAIHHPWIRRPFFPFHSPSRLFDQFFGEHLLESDLFSTATSLSPFYLRPPSFLRAPSWIDTGLSEMRL EKDRFSVNLDVKHFSPEELKVKVLGDVIEVHGKHEERQDEHGFISREFHRKYRIPADVDPLTITSSLSSD

GVLTVNGPRKQVSGPERTIPITREEKPAVAAAPKK

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

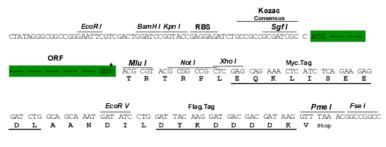
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001289784

ORF Size: 528 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: <u>NM 001289784.1</u>, <u>NP 001276713.1</u>

 RefSeq Size:
 885 bp

 RefSeq ORF:
 528 bp

 Locus ID:
 12955

 UniProt ID:
 P23927

 Cytogenetics:
 9 27.75 cM



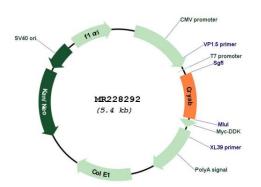
MW:

20.1 kDa

Gene Summary:

This gene encodes a member of the small heat-shock protein (HSP20) family. The encoded protein is a molecular chaperone that protects proteins against thermal denaturation and other stresses. This protein is a component of the eye lens, regulates lens differentiation and functions as a refractive element in the lens. This protein is a negative regulator of inflammation, has anti-apoptotic properties and also plays a role in the formation of muscular tissue. Mice lacking this gene exhibit worse experimental autoimmune encephalomyelitis and inflammation of the central nervous system compared to the wild type. In mouse models, this gene has a critical role in alleviating the pathology of the neurodegenerative Alexander disease. Mutations in the human gene are associated with myofibrillar myopathy 2, fatal infantile hypertonic myofibrillar myopathy, multiple types of cataract and dilated cardiomyopathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Product images:



Circular map for MR228292