

Product datasheet for RR213783

Cryab (NM_012935) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cryab (NM_012935) Rat Tagged ORF Clone

Tag: Myc-DDK

Symbol: Cryab

Synonyms: AACRYA

Mammalian Cell Neomycin

Selection:

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

ORF Nucleotide >RR213783 representing NM_012935

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGACATAGCCATCCACCACCCCTGGATCCGGCGTCCCTTCTTTCCATTCCACTCCCCAAGCCGCCTCT
TTGACCAGTTCTTCGGAGAGCACCTGTTGGAGTCTGACCTCTTCTCTACAGCCACTTCCCTGAGCCCCTT
CTACCTTCGGCCACCCTCCTTCCTGCGGGCACCTAGCTGGATTGACACTGGGCTCTCAGAGATGCGTATG
GAGAAGGACAGGTTCTCTGTGAACCTGGACGTGAAGCACTTCTCTCCAGAGGAACTCAAAGTCAAGGTTC
TGGGAGACGTGATTGAGGTGCACGGCAAGCACGAAGAGCGCCAGGACGAACATGGCTTCATCTCCAGGGA
GTTCCACAGGAAGTACCGGATCCCAGCCGACGTGGATCCTCTCACCATTACTTCTTCCCTGTCATCGGAT
GGAGTCCTCACTGTGAATGGACCAAGGAAACAGGCCTCTGGCCCTGAGCGCACCATTCCCATCACCCGTG

AAGAGAAGCCTGCTGTCACTGCAGCCCCTAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213783 representing NM_012935

Red=Cloning site Green=Tags(s)

MDIAIHHPWIRRPFFPFHSPSRLFDQFFGEHLLESDLFSTATSLSPFYLRPPSFLRAPSWIDTGLSEMRM EKDRFSVNLDVKHFSPEELKVKVLGDVIEVHGKHEERQDEHGFISREFHRKYRIPADVDPLTITSSLSSD

GVLTVNGPRKQASGPERTIPITREEKPAVTAAPKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3437 h09.zip



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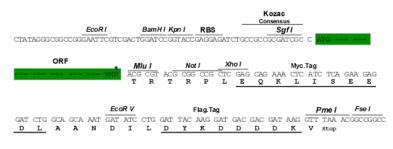
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:





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

ACCN: NM_012935

ORF Size: 525 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 012935.4</u>, <u>NP 037067.1</u>

 RefSeq Size:
 1019 bp

 RefSeq ORF:
 528 bp

 Locus ID:
 25420

 UniProt ID:
 P23928



Cytogenetics: 8q23

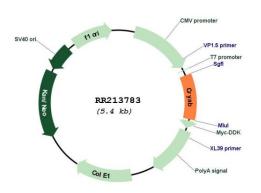
MW: 20.1 kDa

Gene Summary: This gene encodes subunit b, 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. Alternate promoter usage results in different transcript variants encoding the same protein.

[provided by RefSeq, Sep 2014]

Product images:



Circular map for RR213783