

## Product datasheet for **RN213783**

### Cryab (NM\_012935) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cryab (NM\_012935) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cryab  
**Synonyms:** AACRYA  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN213783 representing NM\_012935  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACATAGCCATCCACCACCCTGGATCCGGCGTCCCTTCTTTCCCTTCCACTCCCCAAGCCGCCTCT  
TTGACCAGTTCTTCGGAGAGCACCTGTTGGAGTCTGACCTTCTCTACAGCCACTTCCCTGAGCCCTT  
CTACCTTCGGCCACCCTCCTTCTGCGGGCACCTAGCTGGATTGACACTGGGCTCTCAGAGATGCGTATG  
GAGAAGGACAGGTTCTCTGTGAACCTGGACGTGAAGCACTTCTCTCCAGAGGAACTCAAAGTCAAGGTT  
TGGGAGACGTGATTGAGGTGCACGGCAAGCAGGAGCGCCAGGACGAACATGGCTTCACTCCAGGGA  
GTTCCACAGGAAGTACCGGATCCAGCCGACGTGGATCCTCTCACCATTACTTCTTCCCTGTCATCGGAT  
GGAGTCTCACTGTGAATGGACCAAGGAAACAGGCCTCTGGCCCTGAGCGCACCATTCCCATCACCCGTG  
AAGAGAAGCCTGCTGCTCACTGCAGCCCCAAGAAG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_012935  
**Insert Size:** 528 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).



[View online >](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_012935.4</a></u> , <u><a href="#">NP_037067.1</a></u>
<b>RefSeq Size:</b>	1019 bp
<b>RefSeq ORF:</b>	528 bp
<b>Locus ID:</b>	25420
<b>UniProt ID:</b>	<u><a href="#">P23928</a></u>
<b>Cytogenetics:</b>	8q23
<b>Gene Summary:</b>	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]