

## Product datasheet for **MR201946**

### **Cryba4 (NM\_021351) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cryba4 (NM\_021351) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cryba4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201946 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCCTGCAGTGCACCAAGTCAGCTGGACACTGGAGGATGGTGGTGTGGGATGAAGAAGGCTTCCAGG  
GCCGACGGCATGAATTCACAGCTGAGTGTCCCAGTGTCTTGAACCTGGTTTTGAGACGGTGCATCTCT  
CAAAGTCTGAGCGGAGCGTGGGTAGGCTTTGAGCACGCCGGCTTCCAAGGACAGCAATATGTGCTGGAG  
AGGGCGGATTACCCGGGCTGGGATGCCTGGGGTGGCAACACAGCCTACCTGCGGAGAGGCTCACCTCT  
TCCGGCTGTGGCTGCGCTAACACCCGCGACTCAAGGCTGACCATCTTCGAGCAGGAGAAGCTTCCCTGGG  
CAGGAAAAGGCGAGCTGAACGATGACTATCCCTCTCTGCAGGCCATGGGCTGGGACGGCACTGAAGTGGGC  
TCCTTCCATGTTCAATCTGGGGCTGGGTTTGTCCAGTTTCTGGCTACCGAGTTTTTTCAGTACATCC  
TGGAGAGCGATCACCCTCAGGTGACTACAAGCACTTCAGAGAGTGGGGCTCCCATGCTCACACCTTCCA  
GGTGCAGAGTGTGCGCAGAATCCAGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201946 protein sequence  
**Red=Cloning site Green=Tags(s)**

MTLQCTKSAGHWRMVVWDEEGFQGRRHEFTAECPSVLELGFETVRSCLKVLSGAWVGFHAGFQGGQYVLE  
RGDYPGWDWGGNTAYPAERLTSFRPVACANHRDSRLTIFEQENFLGRKGELNDDYPSLQAMGWDGTEVG  
SFHVQSGAWVCSQFPGYRGFYILESDHHSVDYKHFREWGSHAHTFQVQSVRRIQQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_021351

**ORF Size:** 591 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:** [NM\\_021351.2](#)

**RefSeq Size:** 752 bp

**RefSeq ORF:** 591 bp

**Locus ID:** 12959

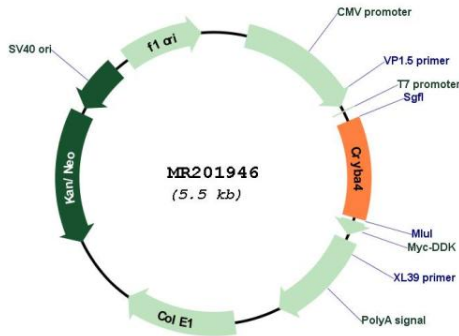
**UniProt ID:** [Q9JIV0](#)

**Cytogenetics:** 5 F

**MW:** 22.5 kDa

**Gene Summary:** This gene encodes a member of the crystallin family of proteins that contribute to the transparency and refractive properties of the ocular lens. Certain mutations in the human ortholog of this gene are associated with cataract and bilateral microphthalmia. This gene is located adjacent to a related crystallin gene on chromosome 5. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2015]

**Product images:**



Circular map for MR201946