

## Product datasheet for **MG201946**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cryba4 (NM\_021351) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cryba4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201946 representing NM\_021351  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCCTGCAGTGCACCAAGTCAGCTGGACACTGGAGGATGGTGGTGTGGGATGAAGAAGGCTTCCAGG  
GCCGACGGCATGAATTCACAGCTGAGTGTCCCAGTGTCCCTGGAACCTGGTTTTGAGACGGTGCATCTCT  
CAAAGTCTGAGCGGAGCGTGGGTAGGCTTTGAGCACGCCGGCTTCCAAGGACAGCAATATGTGCTGGAG  
AGGGGCGATTACCCGGGCTGGGATGCCTGGGGTGGCAACACAGCCTACCCTGCGGAGAGGCTCACCTCCT  
TCCGGCTGTGGCTGCGCTAACCCACCGGACTCAAGGCTGACCATCTTCGAGCAGGAGAAGCTTCCCTGGG  
CAGGAAAAGCGAGCTGAACGATGACTATCCCTCTCTGCAGGCCATGGGCTGGGACGGCACTGAAGTGGGC  
TCCTTCCATGTTCAATCTGGGGCGTGGGTTTGTCCAGTTTCCTGGCTACCGAGTTTTTCAGTACATCC  
TGGAGAGCGATCACCCTCAGGTGACTACAAGCACTTCAGAGAGTGGGGCTCCCATGCTCACACCTTCCA  
GGTGCAGAGTGTGCGCAGAATCCAGCAG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:** >MG201946 representing NM\_021351  
**Red=Cloning site Green=Tags(s)**

MTLQCTKSAGHWRMVVWDEEGFQGRHEFTAECPSVLELGFETVRSCLKVLSGAWVGFHAGFQQQYVLE  
RGDYPGWDAWGGNTAYPAERLTSFRPVACANHRDSRLTIFEQENFLGRKGELNDDYPSLQAMGWDGTEVG  
SFHVQSGAWVCSQFPGYRGFYILESDHHSVDYKHFREWGSHAHTFQVQSVRRIQQ

**TRTRPLE - GFP Tag - V**

**Restriction Sites:** SgfI-MluI

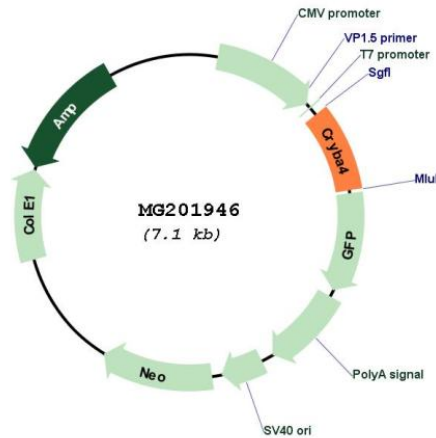


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_021351

ORF Size: 588 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.

<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>	<a href="#">NM_021351.2</a>
<b>RefSeq Size:</b>	752 bp
<b>RefSeq ORF:</b>	591 bp
<b>Locus ID:</b>	12959
<b>UniProt ID:</b>	<a href="#">Q9JJV0</a>
<b>Cytogenetics:</b>	5 F
<b>Gene Summary:</b>	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]