

## Product datasheet for **MG201503**

### Crygd (NM\_007776) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Crygd (NM\_007776) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Crygd  
**Synonyms:** Aey4; Cryg-1; DGcry-1; Lop12  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201503 representing NM\_007776  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAAGATCACCTTCTATGAGGACCGCGCTTCCAGGGCCGCACTATGAGTGCAGCACCGACCACT  
CCAACCTGCAGCCCTACTTCAGCCGCTGCAACTCTGTGCGCGTGGACAGTGGCTGCTGGATGCTCTATGA  
GCAGCCCAACTTCAGGGCTGCCAGTACTTCTGCGTCCGCGGGGACTACCCTGACTACCAGCAGTGGATG  
GGTTTCAGTGACTCTGTCCGCTCCTGCCGCTCATCCCCACGCCGGCTCTCACAGGATCAGACTGTACG  
AGAGGGAAGAGTACAGAGGCCAGATGATAGAGTTCACGGAGGACTGCCCTCTCTCCAGGACCGATTCCA  
CTTCAATGAGATCTACTCCCTCAATGTGCTAGAGGGCTGCTGGTCTCTACGACATGACCAACTACCGG  
GGAAGGCAGTACTTGCTCAGACCCGGGAGTACAGGCGCTACCACGACTGGGGCGCCATGAATGCCAGG  
TGGGCTCTCTGAGGAGAGTCATGGATTTCTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201503 representing NM\_007776  
Red=Cloning site Green=Tags(s)

MGKITFYEDRGFQGRHYECSTDHNSLQPYFSRCNSVRVDSGCWMLYEQPNFTGCQYFLRRGDYDPDYQQWM  
GFSDSVRSCLIPHAGSHRIRLYEREEYRGMIEFTEDCPSLQDRFHFNEIYSLNVLEGCVLYDMTNYR  
GRQYLLRPGEYRRYHDWGAMNARVGLRRVMDFY

**TRTRPLE** - GFP Tag - V

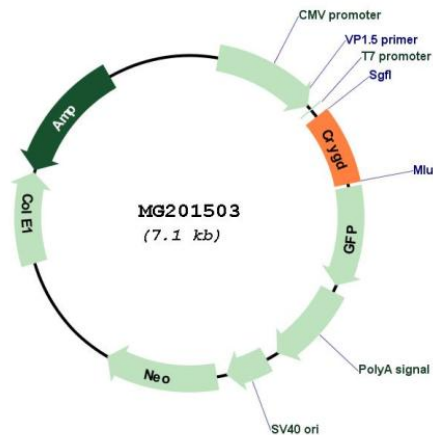
**Restriction Sites:** Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM\_007776

ORF Size: 522 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>	<u><a href="#">NM_007776.2</a></u>
<b>RefSeq Size:</b>	599 bp
<b>RefSeq ORF:</b>	525 bp
<b>Locus ID:</b>	12967
<b>UniProt ID:</b>	<u><a href="#">P04342</a></u>
<b>Cytogenetics:</b>	1 32.8 cM
<b>Gene Summary:</b>	Crystallins are the dominant structural components of the vertebrate eye lens. [UniProtKB/Swiss-Prot Function]