

## Product datasheet for **MG201357**

### Dgcr6 (BC048503) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dgcr6 (BC048503) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Dgcr6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201357 representing BC048503  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGGCCGCGGGGATGAGGCGCGGATCGGGTCCTACACCACGCTCAGCGACTTGGCCCTGGCGCTGC  
 TCGACGGAACGGTGTTTGAATCGTGCAGGGTCTTCTGGAGATTCAGCACCTCACTGAGAAGAGCCTCTA  
 CAACCAGAGACTGCGGCTGCAGAACGAACCCAGTGCTCAGACAGACTTAAGGCAGAAGCACCTGGAA  
 GCCCAGCAGTCTGCGGCCCCACAATTGCCAGTGCTCCAGGCAGCTCAGCAGCGTGAGCTGGAGGCCA  
 TGGAAATCGGATCCGGGAGGAGCAGCAGGCTATGGACCGAAAGATTGTCCTGGAGCTGGACCGGAAGGT  
 TGCCGACCAGCAGACACTGGAGAAGGCAGGGGTAGCTGGTTTCTACGTGACCACCAATCCTCAGGAG  
 CTGACGCTGCAGATGAACCTATTGGAACATCAGGAAGCTGCAGCAGAGGGGCTGCCAAGTGGGAAAGG  
 CAGCTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201357 representing BC048503  
 Red=Cloning site Green=Tags(s)  
 MRPPGMRRRIGSYTTLSDLALALLDGTVFEIVQGLLEIQHLTEKSLYNQRLRLQNEHRVLRQTLRQKHLE  
 AQQSCRPHNLPVLQAAQQRELEAMEHRIREEQQAMDRKIVLELDRKVADQQSTLEKAGVAGFYVTNPQE  
 LTLQMNLLELIRKLQQRGCQVGKAAL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** BC048503

**ORF Size:** 498 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:** [BC048503.1](#)

**RefSeq Size:** 948 bp

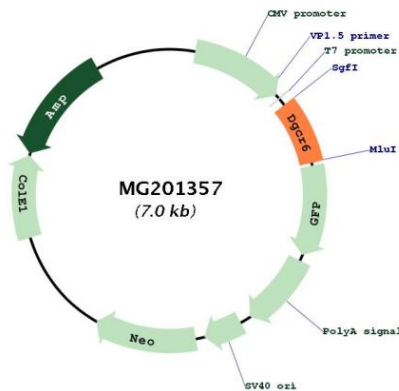
**RefSeq ORF:** 500 bp

**Locus ID:** 13353

**Cytogenetics:** 16 11.19 cM

**Gene Summary:** This gene encodes a protein that is similar to the gonadal protein in *Drosophila* (fruit fly). The encoded protein is thought to play a role in migration of neural crest cells during development. Deletions in the human gene are associated with DiGeorge syndrome (or velocardiofacial syndrome) which has many clinical features including cardiac abnormalities, cleft palate, atypical facial features, hypocalcemia, hypoparathyroidism and defective development or congenital absence of the thymus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

## Product images:



Circular map for MG201357