

## Product datasheet for **MR201357**

### Dgcr6 (BC048503) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dgcr6 (BC048503) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Dgcr6  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR201357 representing BC048503  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGCCCGCGGGGATGAGGCGCGGATCGGGTCTACACCACGCTCAGCGACTTGGCCCTGGCGCTGC  
TCGACGGAACGGTGTGAAATCGTGCAGGGTCTTCTGGAGATTCAGCACCTCACTGAGAAGAGCCTCTA  
CAACCAGAGACTGCGGCTGCAGAACGAACACCGAGTGCTCAGACAGACTCTAAGGCAGAAGCACCTGGAA  
GCCCAGCAGTCTGCCGGCCCACTTGCAGTGCTCCAGGCAGCTCAGCAGCGTGAGCTGGAGGCCA  
TGGAACTCGGATCCGGGAGGAGCAGCAGGCTATGGACCGAAAGATTGTCTGGAGCTGGACCGGAAGGT  
TGCCGACCAGCAGAGCACACTGGAGAAGGCAGGGGTAGCTGGTTTCTACGTGACCACCAATCCTCAGGAG  
CTGACGCTGCAGATGAACCTATTGGAACATCAGGAAGCTGCAGCAGAGGGGCTGCCAAGTGGGAAAGG  
CAGCTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201357 representing BC048503  
Red=Cloning site Green=Tags(s)

MRPPGMRRRIGSYTTLSDLALALLDGTVFEIVQGLLEIQHLTEKSLYNQRLRLQNEHRVLRQTLRQKHLE  
AQQSCRPHNLPVLQAAQQRELEAMEHRIREEQAMDRIKIVLELDRKVADQQSTLEKAGVAGFYVTTNPQE  
LTLQMNLELIRKLQQRGCQVGKAAL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

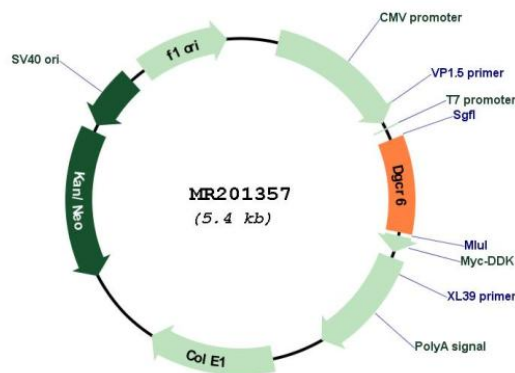


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Cloning Scheme:



Plasmid Map:



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.

<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="#">BC048503.1</a></u>
<b>RefSeq Size:</b>	948 bp
<b>RefSeq ORF:</b>	500 bp
<b>Locus ID:</b>	13353
<b>Cytogenetics:</b>	16 11.19 cM
<b>MW:</b>	34.8 kDa
<b>Gene Summary:</b>	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]