

## Product datasheet for **RG230256**

### **DGCR2 (NM\_001184781) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DGCR2 (NM_001184781) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DGCR2
Synonyms:	DGS-C; IDD; LAN; SEZ-12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG230256 representing NM\_001184781  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGCCCAAGGCAGACAGCGGCCCTTCTGCTGCTCTTCTGCTCGTCTACTGTACCGAGCCGC  
 TCGCGCCAGAGCTGCGGTGCAACCTGGCAGTTTGCCTGTCGACGCGGACCATCCAGTGCATCCCCCT  
 CCCCTGGCAGTGTGACGGCTGGCGACTTGCAGGATGAGAGCGACGAAGCCAAGTCCAGAAAGTACC  
 GGGGAGGTGCGTCTCATCATGGGAAGGAGGCTGTGGATCCGCGGCAGGGCGGGCCAGAGGAGCGACC  
 CTTGCACTTCCACGCGGTGAACGTGGCGCAGCCCGTTGCTTACAGAGGAAGTGCCCGACAGGGTGGCA  
 CCACTACGAAGGCACGGCCAGCTGCTACCGGGTCTACCTGAGCGGGGAGAACTACTGGGATGCCGCGAC  
 ACCTGCCAGCGCTGAATGGCTCTCTCGCCACCTTCTCCACTGACCAGGAGCTGCGCTTTGCTGGCCC  
 AGGAATGGGACCAGCCCAGCGGAGCTTTGGTTGGAAGGACCAGCGCAAGTTGTGGGTTGGCTATCAGTA  
 TGTTATCACTGGCCGGAACCGCTCCTTGAAGGTGCTGGGAGGTGGCATTCAAAGGCTCTCAGAGGTG  
 TTCTGCCCCAGACCCATCTTTGCTCGGCCATGCTGAGAACGACAACGTGTTCTGTGCCAGCTTC  
 AGTGCTTCCATTTCCCCACCCTGCGGCACCACGACCTCCACAGCTGGCACGCCGAGAGCTGCTACGAGAA  
 GTCTTCAATTTCTGTGTAAGAAGTCAAACATGTGTTGACATCAAGGACAACGTGGTGGATGAAGGGTTC  
 TACTTACCCCTAAGGGGACGACCCATGCCTGAGCTGCACCTGCCATGGAGGGGAGCCTGAGATGTGTG  
 TGGCTGCTCTCTGTGAGAGGCCCCAGGGCTGCCAACAGTACCGCAAGGACCCCAAAGAGTGTGCAAGTT  
 CATGTGTCTGGACCCAGATGGCAACAGTCTGTTGACTCCATGGCCAGCGGGATGCGCCTGGTCTGTCAGC  
 TGCATCTCCTCCTCCTCATCTGTCACTGCTCTTTCATGGTCCACCGGCTGCCAGCGGGCCCGGG  
 AGCGCATCGAGTCCCTGATTGGAGCAAACCTGCACCACTTCAACCTCGGCCGAGGATCCCTGGCTTGA  
 TTACGGCCCAGACGGGTTTGGCACGGGCTCACGCGCTGCATCTTCTGACGACGGAGAGGGTGGGACT  
 TTCCATTTCCACGACCCTCCACCTCCCTACACGCATACAAGTACCCGGACATCGGCCAGCCGACGACC  
 CTCGCGCCCTACGAGGCTCCATCCACCCGGACAGTGTGTTCTATGACCCTGCAGACGATGATGCTTT  
 TGAGCCTGTGGAGGTGAGCTGCCAGCCCTGGGGATGGTGGGAGTGAAGGTGCATTACTCCGGCCTG  
 GAGCAGCTCTGCCACTGCGGGGCTCTCTGGCAGACTGGAAGACTCTGCCGACAGCAGCAGCGCCC  
 TGCTCGTCCCCCTGACCCTGCCAGAGCGGGAGCACCCAGCTGCAGAGGACTGCCAGGGGTGGCCG  
 CCACAGCCGACGCTCCCTCAATACTGTGGTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG230256 representing NM\_001184781  
 Red=Cloning site Green=Tags(s)

MVPKADSGAFLLFLVLTVEPLRPELRNCPGQFACRSGTIQCIPLPWQCDGWATCEDESDEANCPVET  
 GEVRPHHGKEAVDPRQGRARGGDPSPHFHAVNVAQPVRF SRKCPTGWHHYEGTASCYRVYLSGENYWDAAQ  
 TCQRLNGSLATFSTDQELRFVLAQEWDPERSFGWKDQRKLWVGYYVITGRNRSLEGRWEVAFKGSSEV  
 FLPPDPIFASAMSENDNVFCAQLQCFHFPTLRHHDLSHWAESCYEKSSF LCKRSQTCVDIKDNVDEGF  
 YFTPKGDDPCLSCTCHGGEPEMVAALCERPQGCQYRKDPKECKFMCLDPDGNLSLFDMSAGMRLVVS  
 CISSFLILSLLL F MVHRLRQRRRERIESLIGANLHHFNLGRRIPGFDYGPDPGFTGLTPLHLSDDGEGGT  
 FHFHDP PPPYTA YKYPDIGPDDPPPPYEASIH PDSVFDY PADDDAFEPVEVSLPAPGDDGSEGALLRRL  
 EQPLPTAGASLADLEDSADSSSALLVPPDPAQSGSTPAAEALPGGGRHSRSSLNTVV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001184781

**ORF Size:** 1641 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\\_001184781.2](#)

**RefSeq Size:** 4495 bp

**RefSeq ORF:** 1644 bp

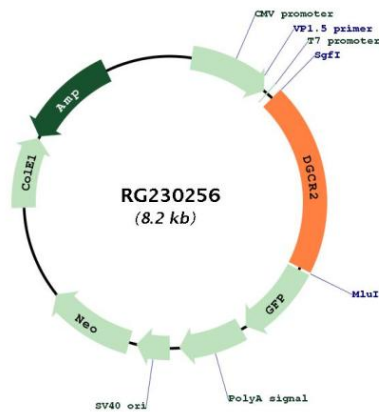
**Locus ID:** 9993

**Cytogenetics:** 22q11.21

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** Deletions of the 22q11.2 have been associated with a wide range of developmental defects (notably DiGeorge syndrome, velocardiofacial syndrome, conotruncal anomaly face syndrome and isolated conotruncal cardiac defects) classified under the acronym CATCH 22. The DGCR2 gene encodes a novel putative adhesion receptor protein, which could play a role in neural crest cells migration, a process which has been proposed to be altered in DiGeorge syndrome. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

**Product images:**



Circular map for RG230256