

Product datasheet for **RG206306**

DGCR2 (NM_005137) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGCR2 (NM_005137) 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)



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ORF Nucleotide Sequence:

>RG206306 representing NM_005137
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCCCAAGGCAGACAGCGGCCCTTCTGCTGCTCTTCTGCTCGTCTACTGTACCGAGCCGC
 TGGCGCCAGAGCTGCGGTGCAACCTGGGCAGTTTGCCTGTCGACGGCACCATCCAGTGCATCCCCCT
 CCCCTGGCAGTGTGACGGCTGGGCGACTTGCGAGGATGAGAGCGACGAAGCCAAGTGTCCAGAAAGTACC
 GGGGAGGTGCGTCTCATCATGGGAAGGAGGCTGTGGATCCGCGGCAGGGCGGGCCAGAGGAGGCGACC
 CTTGCACTTCCACGCGGTGAACGTGGCGCAGCCGTTGCTTACGAGTTTCTAGGGAAGTCCCCGAC
 AGGGTGGCACCCTACGAAGGCACGGCCAGCTGTACCGGGTCTACTGAGCGGGGAGAAGTACTGGGAT
 GCCGCGCAGACCTGCCAGCGCTGAATGGCTCTCTGCCACCTTCTCCACTGACCAGGAGCTGCGCTTTG
 TCCTGGCCAGGAATGGGACCAGCCGAGCGGAGCTTTGGTTGGAAGGACCAGCGCAAGTTGTGGGTTGG
 CTATCAGTATGTTATCACTGGCCGGAACCGCTCCTTGGAAAGTGCCTGGGAGGTGGCATTCAAAGGCTCT
 TCAGAGGTGTTCCCTGCCCCAGACCCCATCTTTCCTCGCCATGTCTGAGAACGACAACGTGTTCTGTG
 CCCAGTTTCAGTCTTCCATTTCCACACCTGCGGCACCACGACCTCCACAGCTGGCAGCGCCGAGAGCTG
 CTACGAGAAGTCTTCAATTTCTGTGTAAGAAGTCAAACATGTGTTGACATCAAGGACAACGTGGTGGAT
 GAAGGGTCTACTTACCCTTAAGGGGACGACCCATGCCTGAGCTGCACCTGCCATGGAGGGGAGCCTG
 AGATGTGTGTGGCTGCTCTGTGAGAGGCCCCAGGGTGCACACAGTACCGCAAGGACCCCAAAGAGTG
 CTGCAAGTTATGTGTCTGGACCCAGATGGCAACAGTCTGTTGACTCCATGGCCAGCGGGATGCGCCTG
 GTGCTCAGCTGCATCTCCTCCTCATCTGTCAGTCTGCTCTTTCATGGTCCACCGGCTGCGCCAGC
 GCGCCGGGAGCGCATCGAGTCCCTGATTGGAGCAAAGTGCACCACTTCAACCTCGGCGCAGGATCCC
 TGGCTTTGATTACGGCCAGACGGGTTTGGCACGGCCTCACGCCGCTGCATCTTCTGACGACGGAGAG
 GGTGGGACTTTCCATTTCCACGACCTCCACCTCCCTACACGGCATAACAAGTACCCGACATCGGCCAGC
 CCGACGACCTCCGCGCCCTACGAGGCTCCATCCACCCGACAGTGTGTTCTATGACCTGCAGACGA
 TGATGCTTTTGGCCTGTGGAGGTGAGCCTGCCAGCCCTGGGGATGGTGGGAGTGAAGGTGCATTACTC
 CGGCGCTGGAGCAGCTCTGCCACTGCGGGGCTCTCTGGCAGACCTGGAAGACTCTGCCGACAGCA
 GCAGCGCCATGCTCGTCCCCCTGACCCTGCCAGAGCGGGAGCACCCAGCTGCAGAGGCACTGCCAGG
 GGTGGCCGCCACAGCCGAGCTCCCTCAATACTGTGGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206306 representing NM_005137
 Red=Cloning site Green=Tags(s)

MVPKADSGAFLLLLFLLVLTVTEPLRPELRCNPQGFACRSGTIQCIPLPWQCDGWATCEDESDEANPEVT
 GEVRPHHGKEAVDPRQGRARGGDP SHFHAVNVAQPVRFSSFLGKCP TGWHHYEGTASCYRVYLSGENYWD
 AAQTCQRLNGLATFSTDQELRFVLAQEWDQPERSFGWKDQRKLWVGYYVITGRNRSLEGRWEVAFKGS
 SEVFLPPDPIFASAMSENDNVFCAQLQCFHPTLRHHDLHSHWAESCYEKSSFLCKRSQTCVDIKDNVVD
 EGFYFTPKGDDPCLSCTCHGGEPEMCVAALCERPQGCQYRKDPKECKFMCLDPDGNLFDMSMGMRL
 VVSCISSFLILSLLL F MVHRLRQRRRIE SLIGANLHHFNLGRRIPGFDYGPDGFGLTPLHLSDGGE
 GGTFFHFDPPPPYAYKYPDIGQPDPPPPYEASIHPSVYDPADDDAFEPVEVSLPAPGDGGSEGALL
 RRLEQPLPTAGASLADLEDSADSSSAMLVPPDPAQSGSTPAAEALPGGGRHSRSSLNTVV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_005137
ORF Size:	1650 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:	<ol style="list-style-type: none">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_005137.2 , NP_005128.1
RefSeq Size:	4504 bp
RefSeq ORF:	1653 bp
Locus ID:	9993
UniProt ID:	P98153
Cytogenetics:	22q11.21
Domains:	VWC, CLECT, ldl_recept_a
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]