

Product datasheet for **RC206306**

DGCR2 (NM_005137) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGCR2 (NM_005137) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DGCR2
Synonyms:	DGS-C; IDD; LAN; SEZ-12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC206306 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCCAAGGCAGACAGCGGCCCTTCTGCTGCTCTTCTGCTCGTCTACTGTACCGAGCCGC
 TCGCGCCAGAGCTGCGGTGCAACCCTGGCAGTTTGCCTGTCGACGCGGACCATCCAGTGCATCCCCCT
 CCCCTGGCAGTGTGACGGCTGGCGACTTGCAGGATGAGAGCGACGAAGCCAAGTCCAGAAAGTGACC
 GGGGAGGTGCGTCTCATCATGGGAAGGAGGCTGTGGATCCGCGGCAGGGCGGGCCAGAGGAGGCGACC
 TTTCGCACTTCCACGCGGTGAACGTGGCGCAGCCCGTTGCTTACGAGTTTCTAGGGAAGTGCCCGAC
 AGGGTGGCACCCTACGAAGGCACGGCCAGCTGTACCGGGTCTACCTGAGCGGGGAGAAGTACTGGGAT
 GCCCGCAGACCTGCCAGCGCTGAATGGCTCTCTGCCACCTTCTCCACTGACCAGGAGCTGCGCTTTG
 TCCTGGCCAGGAATGGGACCAGCCGAGCGGAGCTTTGGTTGGAAGGACCAGCGCAAGTTGTGGTTGG
 CTATCAGTATGTTACTGCGCCGAACCGCTCCTTGGAAAGTGCCTGGGAGGTGCATTCAAAGGCTCT
 TCAGAGGTGTTCCCTGCCCCAGACCCCATCTTTCCTCGCCATGTCTGAGAACGACAACGTGTTCTGTG
 CCCAGTTTCAGTCTTCCATTTCCACACCTGCGGCACCACGACCTCCACAGCTGGCAGCGCCGAGAGCTG
 CTACGAGAAGTCTTCAATTTCTGTGTAAGAAGTCAAACATGTGTTGACATCAAGGACAACGTGGTGGAT
 GAAGGGTCTACTTACCCTTAAGGGGACGACCCATGCCTGAGCTGCACCTGCCATGGAGGGGAGCCTG
 AGATGTGTGTGGCTGCTCTGTGAGAGGCCCCAGGGTGCACACAGTACCGCAAGGACCCCAAAGAGTG
 CTGCAAGTTATGTGTCTGGACCCAGATGGCAACAGTCTGTTGACTCCATGGCCAGCGGGATGCGCCTG
 GCGTCAAGTGCATCTCCTCCTCATCCTGTCACTGCTGCTTTCATGGTCCACCGGCTGCGCCAGC
 GCGCCGGGAGCGCATCGAGTCCCTGATTGGAGCAAAGTGCACCACTTCAACCTCGGCCAGGATCCC
 TGGCTTTGATTACGGCCAGACGGGTTTGGCACGGGCTCACGCCGCTGCATCTTCTGACGACGGAGAG
 GGTGGGACTTTCCATTTCCACGACCTCCACCTCCCTACACGGCATAACAAGTACCCGACATCGGCCAGC
 CCGACGACCTCCGCGCCCTACGAGGCTCCATCCACCCGACAGTGTGTTCTATGACCTGCAGACGA
 TGATGCTTTGAGCCTGTGGAGGTGAGCCTGCCAGCCCTGGGGATGGTGGGAGTGAAGGTGCATTACTC
 CGGCGCTGGAGCAGCTCTGCCACTGCGGGGCTCTCTGGCAGACCTGGAAGACTCTGCCGACAGCA
 GCAGCGCCATGCTCGTCCCCCTGACCCTGCCAGAGCGGGAGCACCCAGCTGCAGAGGCACTGCCAGG
 GGTGGCCGCCACAGCCGAGCTCCCTCAATACTGTGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206306 protein sequence
 Red=Cloning site Green=Tags(s)

MVPKADSGAFLLFLVLTVTEPLRPELRPNPQGFACRSGTIQCIPLPWQCDGWATCEDESDEANCP EVT
 GEVRPHHGKEAVDPRQGRARGGDP SHFHAVNVAQPVRFSSFLGKCP TGWHHYEGTASCYRVYLSGENYWD
 AAQTCQRLNGLATFSTDQELRFVLAQEWDQPERSFGWKDQRKLWVGYQYVITGRNRSLEGRWEVAFKGS
 SEVFLPPDPIFASAMSENDNVFCAQLQCFHFPTLRHDLHSHWAESCYEKSSFLCKRSQTCVDIKDNVVD
 EGFYFPTKGGDPCLSCTCHGGEPEMCVAALCERPQGCQYRKDPKECKFMCLDPDGNLFDMSASGMRL
 VVSCISSFLILSLLL F MVHRLRQRRRERIESLIGANLHHFNLGRRIPGFDYGPDGFGLTPLHLSD DGE
 GGTFHFHDPPPPYAYKYPDIGQDDPPPPYEAS IHPDSVFYDPADDDAFEPVEVSLPAPGDGGSEGALL
 RRLEQPLPTAGASLADLEDSADSSSAMLVPPDPAQSGSTPAAEALPGGGRHSRSSLNTVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6515_g12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


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:

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_005137.3](#)

RefSeq Size: 4504 bp

RefSeq ORF: 1653 bp

Locus ID: 9993

UniProt ID: [P98153](#)

Cytogenetics: 22q11.21

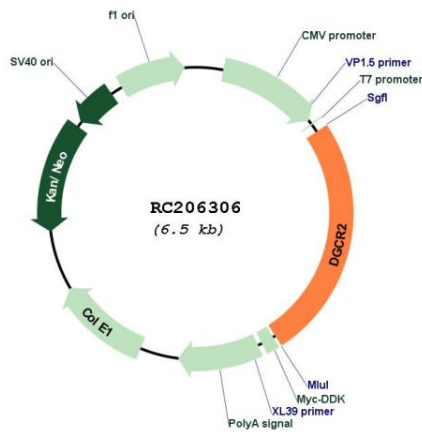
Domains: VWC, CLECT, ldl_recept_a

Protein Families: Druggable Genome, Transmembrane

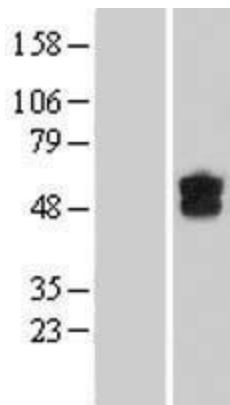
MW: 60.8 kDa

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 RC206306



Western blot validation of overexpression lysate (Cat# [LY417498]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206306 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).