

Product datasheet for **SC116951**

DGCR2 (NM_005137) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGCR2 (NM_005137) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGCR2
Synonyms:	DGS-C; IDD; LAN; SEZ-12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC116951 sequence for NM_005137 edited (data generated by NextGen Sequencing)

```

ATGGTGCCCAAGGCAGACAGCGGCCTTCTGCTGCTTCTGCTCGTGCTCACTGTC
ACCGAGCCGCTGCGGCCAGAGCTGCGGTGCAACCCTGGGCAGTTTGGTGTGCGCAGCGG
ACCATCCAGTGATCCCCCTCCCTGGCAGTGTGACGGCTGGGCGACTTGCAGGATGAG
AGCGACGAAGCCAACTGTCCAGAAGTACCAGGGAGGTGCGTCTCATCATGGAAGGAG
GCTGTGGATCCGCGGCAGGGGCGGGCCAGAGGAGGCGACCCCTTCGCACTTCCACGGGTG
AACGTGGCGCAGCCGTTTCGCTTACAGATTTCTAGGGAAGTGCCCGACAGGGTGGCAC
CACTACGAAGGCACGGCCAGCTGCTACCGGGTCTACCTGAGCGGGGAGAATACTGGGAT
GCCGCGCAGACCTGCCAGCGCTGAATGGCTCTCTCGCCACCTTCTCCACTGACCAGGAG
CTGCGCTTTGCTCGCCAGGAATGGGACCAGCCGAGCGGAGCTTTGGTTGGAAGGAC
CAGCGCAAGTTGTGGTTGGCTATCAGTATGTTATCACTGGCCGGAACCGCTCCTTGAA
GGTCGCTGGGAGGTGGCATTCAAAGGCTCTTACAGAGGTGTTCTGCCCCAGACCCCATC
TTTGCCTCGGCCATGTCTGAGAACGACAACGTGTTCTGTGCCAGCTTACAGTCTCCAT
TTCCCCACCTGCGGCACCACGACTCCACAGCTGGCACGCCGAGAGCTGCTACGAGAAG
TCTTCATTTCTGTGTAAGAAGTCAAACATGTGTTGACATCAAGGACAACGTGGTGGAT
GAAGGGTTCTACTTACCCCTAAGGGGGACGACCCATGCCTGAGCTGCACCTGCCATGGA
GGGGAGCCTGAGATGTGTGGCTGCTCTCTGTGAGAGGCCCCAGGGCTGCCAACAGTAC
CGCAAGGACCCCAAAGAGTGTGCAAGTTTATGTGTCTGGACCCAGATGGCAACAGTCTG
TTTGACTCCATGGCCAGCGGGATGCGCCTGGTGTGCTGAGTGCATCTCCTCCTTCTCATC
CTGTCACTGCTGCTTTCATGGTCCACCGGCTGCGCCAGCGGCGCCGGGAGCGCATCGAG
TCCCTGATTGGAGCAAATTCACCACTTCAACCTCGCCGCGAGGATCCCTGGCTTGTGAT
TACGGCCAGACGGGTTTGGCACGGGCTCACGCCGCTGCATCTTCTGACGACGGAGAG
GGTGGGATTTCCATTTCCACGACCCTCCACTCCCTACACGGCATAAAGTACCCGGAC
ATCGGCCAGCCGACGACCCTCCGCCGCTACGAGGCCTCCATCCACCCGGACAGTGTG
TTCTATGACCCTGCAGACGATGATGCTTTTGGCCTGTGGAGGTGAGCCTGCCAGCCCT
GGGGATGGTGGGAGTGAAGGTGCATTACTCCGGCGCCTGGAGCAGCCTTCTGCCACTGCG
GGGGCCTCTCTGGCAGACCTGGAAGACTCTGCCGACAGCAGCAGCCCTGCTCGTGCC
CCTGACCCTGCCAGAGCGGGAGCACCCAGCTGCAGAGGCACTGCCAGGGGGTGGCCG
CACAGCCGACGCTCCCTCAATACTGTGGTGTAG
    
```

Clone variation with respect to NM_005137.2

5' Read Nucleotide Sequence:

```

>OriGene 5' read for NM_005137 unedited
GTCTATCACCCGCCCCGTTGNACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTAT
ATAAGCAGAGCTCATTTAGGTGACACTATAGAATAACAAGTACTTGTCTTTTTGCAGCG
GCCGCGAATTCGGCACGAGGCTGGAGTGGTGCCTGAGGTTGCAGCCGAGAGTGTGCGCC
AGCCCGCGGCCAGCCGAAGCTTTTCCCGCCGCTCTCCGCGCCTCGCCAGGTTTCAGC
TCCGCTGACCCTCCGCTTGGCACGGTCCCTGACCCTCAGTCCGGCCTGGTCCGGCCTT
CCAGCCGCCCCGGGACGATGAACGGAGGATAAATGGTGCCCAAGGCAGACAGCGGCGCC
TTCCTGCTGCTTCTGCTCGTGTCACTGTCACCGAGCCGCTGCGGCCAGAGCTGCGG
TGCAACCCTGGGAGTTTGGTGTGCGCAGCGGCACCATCCAGTGCATCCCCCTCCCTGG
CAGTGTGACGGCTGGGCGACTTGCAGGATGAGAGCGACGAAGCCAACTGTCCAGAAGTG
ACCGGGGAGGTGCGTCTCATCATGGAAGGAGGCTGTGGATCCGCGGCAGGGGCGGGCC
AGAGGAGGCGACCCTTCGCACTTCCACGCGGTGAACGTGGCGCAGCCGTTTCGTTTCAGC
AGTTTCTAGGGAAGTGCCCGACAGGGTGGCACCCTACGAAGGCACGGCCAGCTGCTAC
CGGGTCTACCTGAGCGGNGAGAATACTGGGATGCCGCGCAGACCTGCCAGCGCCTGAAT
GGCTCTCTCGCCACCTTCTCCACTGACCAGGAGCTGCGCTTTGTCTGGCCAGGATGGG
ACCAGCCCGAGCGGAGCTTTGGTTGGAAGGACCAGCGCAAGTTGTGGGTTGGCTATCAGT
ATGTTATCACA
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005137 unedited TTTTGGGTATACTATGNACCGCGCCGATTCTANNGATCGATTTTTTTTTTTTTTTTTTTTC CGGAACACAGTTTATTTGGCATTGGATGAAATGATTCTCACAGCATCTTAAGAAAATTA GTGTCAACCCAACCAAAAACTAAAAACCCTAATGAAAACATAAAAAACAGGCATCAAG ACAATGTACAGTATCAAATCCCACCTCCGCATGGCAGGTGAGAGGGCACCTGGGCTCTGA GAAACCGTGGCAAGCTGGTCCTAGAGGAGGAGGACCCCTGGAGCACAAGGTTGAGCAAGG GTGACCCCGGGACTTGGTGGTCAGACTGGGGACTGCAGCAGGCCTTGCAAAGGGGGCATT CTGGATGGTGGTCAAGAACAGATGAGCGAGTCCAGCTCCTCATGCTCCCAAGGGCCT CCTGGAGCCACAGTGGCAGCGGTGTTCCAGGCAGCCCTGCCATGTGGACCTTCTGCCTGG CCCAACGTGCCAGTGGCCTGAGTCTTGTGGAGGCCATGGGGAAGGGGCCACCCAGCAA CCCCGGCCAGCCCAAGGCCACCCTCTGCAGCCTGCATGGTCCACTTTACCCCGTTTCT CACTGCCCCCTACGTGTCTGACCGGCCCTAATGTTTCTCTGGTCCCAAAGGAAGCGTC CCAGTCCCACACATCTCGTGCCAGCCACCCTGTCCCGCACACAGTTCTGAGGCCTGGC AGGAATCCTCTGAGCTCTCAGGCTCAAGCCGTGGGGACTCTGCTGCGTGGTCTCGGG CCCTCACTGGCCACCTGGCACCCATAATGCACATGCCTGCTGCTGAAACTGGCTGCC CTGCCCAATGCATGTGGGGATCCACGGCATGCTTCTGGCTTGGCTCTA
Restriction Sites:	NotI-NotI
ACCN:	NM_005137
Insert Size:	4500 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_005137.1 , NP_005128.1
RefSeq Size:	4436 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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).