

## Product datasheet for **MR208729**

### **Dgcr2 (NM\_010048) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dgcr2 (NM_010048) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dgcr2
Synonyms:	9930034O06Rik; DGS-C; Dgsc; Idd; Lan; mKIAA0163; Sez12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208729 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGCCCAAGGCAGACAGCGGTGCCTTCTGCTGCTCTTCTGCTGGTTCTCACTGTCAACGAGCCG  
 TCGCGCCAGAGCTTCGGTGCAACCTGGGCAGTTTGCATGTACGGTGGTACCATCCAGTGCATACCCCT  
 CCCCTGGCAGTGTGATGGCTGGCCAACGTGTGAGGATAAGAGTGTGAAGCCGACTGTCCAGAAAGTACT  
 GGAGAGGCCCGTCTTATGGGAAGGAACTGTGGATCTGCGGCAGGGGCGAGCCAGAGGAGGTGACCCCA  
 CACACTTCCACACAGTGAACGTGGCTCAGCCTGTACGCTTACAGCAGTTCCTAGGGAAATGCCAAAGTGG  
 GTGGCACCCTATGAAGGCACAGCCAGTGTACCGGGTCTACCTCAGTGGAGAGAACTACTGGGATGCT  
 GCACAGACCTGTCAGCGTGTGAATGGCTCACTTGTACCTTCTCCACTGACCAGGAGCTGCGCTTCGTCC  
 TAGCCCAGGAATGGGACCAGCCAGAGCGGAGCTTCGGCTGGAAAGACCAGCGCAAGCTCTGGGTTGGTTA  
 TCAGTATGTCATTACTGGCCGGAACCATTCCTTAGAAGTTCGCTGGGAAGTGGCATTCAAAGGCTCCCA  
 GAAGTGTTCCTGCCCCAGATCCCATCTTCGCCTCTGCCATGTCTGAGAAATGACAACGTGTTCTGCGCCC  
 AGCTCCAGTGTTCACCTTTCCTACCCTGAGGCACCATGACCTCCACAGCTGGCAGCGCCGAGAGCTGCTC  
 TGAGAAGTCTTCGTTTCTGTGTAAGAAGTCAAGAGTGTGTTGATATCAAAGATAATGTGGTGGATGAA  
 GGGTTCTACTTCACTCCCAAGGGAGATGACCCATGCTTGAAGTGTACCTGCCATCGAGGGGAGCCTGAGA  
 TGTGTGTTGCTGCCCTGTGTGAGCGGCCAGGGGTGTCAGCAGTACCGCAAGGACCCTAAGGAATGCTG  
 CAAATTCATGTCTGGACCCAGATGGCAGCAGCCTGTTGACTCCATGGCTAGTGGGATGCGCCTGGTC  
 GTCAGCTGTATCTCCTCCTTCTCATCCTCTCGCTGCTGCTTTTCATGGTCCACCGGCTACGCCAGCGGC  
 GCCGGGAGCGCATCGAGTCCCTGATTGGAGCAAACCTGCACCATTTCAACCTTGGCCGGAGGATCCCTGG  
 CTTTGACTATGGTCCAGATGGGTTTGGCACAGGCCTCACGCCACTACATCTTCTGACGACGGGGAAGGT  
 GGGACTTTCATTCCACAGACCCTCCACCTCCTTATACAGCTTACAAGTACCCAGACATGGACCAGCCGG  
 ATGATCCACCACCACCCTATGAGGCGTCTATCAACCCAGACAGTGTGTTCTACGACCCTGCAGATGACGA  
 TGCCTTTGAGCCTGTGGAGGCCAGCCTGCCAGCCCAAGAGATGGTGGCATTGAAGGTGCATTGCCCAGG  
 CACTTGGATCAGCCGCTGCCCTGCAGAGACATCCTTAGCAGATCTGGAAGACTCTACAGACAGTAGCA  
 GTGCCCTGCTGGTGCCTCCTGATCCCGCCAGAGTGGAAAGCACCCAGCTACAGAAGCACCCGAGGGGG  
 TGGGCGCCTCCCCGTGCTTCCCTCAACACTGTGGTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208729 protein sequence  
 Red=Cloning site Green=Tags(s)

MVPKADSGAFLLFLVLTVTEPLRPELRPNPQGFACHGGTIQCIPLPWQCDGWPTCEDKSDEADCEVET  
 GEARPYGKETVDLRQGRARGDPTHFHTVNVAQPVRFSFLGKCPSGWHHYEGTASCYRVYLSGENYWDA  
 AQTQVRVNSLATFSTDQELRFVLAQEWQPERSFGWKQQRKLWVGYYVITGRNHSLEGRWEVAFKGS  
 EVFLPPDPPIFASAMSENDNVFCAQLQCFHFPTLRHDLHSHWAESCSEKSSFLCKRSQTCVDIKDNVDE  
 GFYFTPKGDDPCLSCTCHRGPEMCVAALCERPQGCQYRKPKECKFMCLDPDGSLLFDSMASGMRLV  
 VSCISSFLILSLLLFMVHRLRQRRRERIESLIGANLHHFNLGRRIPGFDYGPDPGTGLTPLHLSDGEG  
 GTFHFHDPPIYAYKYPMDQDDPPPPYEASINPDSVFDYDADDAFEPVEASLPAPRDGGIEGALPR  
 HLDQPLPAETSLADLEDSTDSSALLVPPDPAQSGSTPATEAPPGGRLPRASLNTVV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_010048

**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\\_010048.3](#)
**RefSeq Size:** 4099 bp

**RefSeq ORF:** 1650 bp

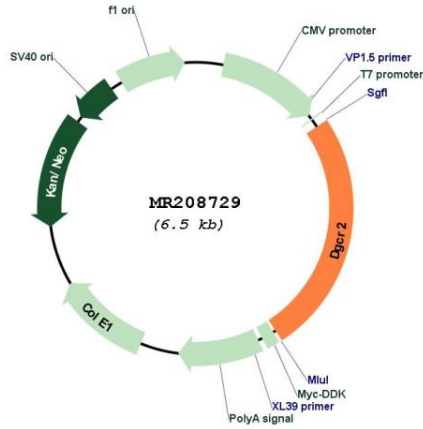
**Locus ID:** 13356

**Cytogenetics:** 16 11.05 cM

MW: 60.9 kDa

Gene Summary: Probably plays a role in neural crest cell migration. May play a role in delivery of extracellular signals.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208729