

Product datasheet for **MG208729**

Dgcr2 (NM_010048) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dgcr2 (NM_010048) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dgcr2
Synonyms:	9930034O06Rik; DGS-C; Dgsc; Idd; Lan; mKIAA0163; Sez12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208729 representing NM_010048
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCCCAAGGCAGACAGCGGTGCCTTCTGCTGCTCTTCTGCTGGTTCTCACTGTCAACGAGCCGC
 TCGCGCCAGAGCTTCGGTGCAACCTGGGCAGTTTGCATGTACGGTGGTACCATCCAGTGCATACCCCT
 CCCCTGGCAGTGTGATGGCTGGCCAACGTGTGAGGATAAGAGTGTGAAGCCGACTGTCCAGAAAGTACT
 GGAGAGGCCCGTCTTATGGGAAGGAACTGTGGATCTGCGGCAGGGGCGAGCCAGAGGAGGTGACCCCA
 CACACTTCCACACAGTGAACGTGGCTCAGCCTGTACGTTTACGACGTTTCTAGGAAAATGCCAAAGTGG
 GTGGCACCACTATGAAGGCACAGCCAGTGTACCGGGTCTACCTCAGTGGAGAGAACTACTGGGATGCT
 GCACAGACCTGTACGCTGTGAATGGCTCACTTGTACCTTCTCCACTGACCAGGAGCTGCGCTTCGTCC
 TAGCCCAGGAATGGGACCAGCCAGAGCGGAGCTTCGGCTGGAAAGACCAGCGCAAGCTCTGGGTTGGTTA
 TCAGTATGTCATTACTGGCCGGAACCATTCCTTAGAAGTTCGCTGGGAAGTGGCATTCAAAGGCTCCCA
 GAAGTGTTCCTGCCCCAGATCCCATCTTCGCCTCTGCCATGTCTGAGAAATGACAACGTGTTCTGCGCCC
 AGCTCCAGTGTTCCTACTTTCCTACCCTGAGGCACCATGACCTCCACAGCTGGCACGCGGAGAGCTGCTC
 TGAGAAGTCTTCGTTTCTGTGTAAGAAGTCAAGAGTGTGTTGATATCAAAGATAATGTGGTGGATGAA
 GGGTTCTACTTCACTCCCAAGGGAGATGACCCATGCTTGAAGTGTACCTGCCATCGAGGGGAGCCTGAGA
 TGTGTGTTGCTGCCCTGTGTGAGCGGCCAGGGGTGTGACGAGTACCGCAAGGACCCTAAGGAATGCTG
 CAAATTCATGTCTGGACCCAGATGGCAGCAGCCTGTTGACTCCATGGCTAGTGGGATGCGCCTGGTC
 GTCAGGTGTATCTCCTCCTTCTCATCCTCTCGCTGCTGCTTTTCATGGTCCACCGGCTACGCCAGCGGC
 GCCGGGAGCGCATCGAGTCCCTGATTGGAGCAAACCTGCACCATTTCAACCTTGGCCGGAGGATCCCTGG
 CTTTGACTATGGTCCAGATGGGTTTGGCACAGGCCTCACGCCACTACATCTTTCTGACGACGGGGAAAGT
 GGGACTTTCATTTCCACGACCTCCACCTCCTTATACAGCTTACAAGTACCCAGACATGGACCAGCCGG
 ATGATCCACCACCACCTATGAGGCGTCTATCAACCCAGACAGTGTGTTCTACGACCCTGCAGATGACGA
 TGCCTTTGAGCCTGTGGAGGCCAGCCTGCCAGCCCAAGAGATGGTGGCATTGAAGGTGCATTGCCCAGG
 CACTTGGATCAGCCGCTGCCCTGCAGAGACATCCTTAGCAGATCTGGAAGACTCTACAGACAGTAGCA
 GTGCCCTGCTGGTGCCTCTGATCCCGCCAGAGTGAAGCACCCAGCTACAGAAGCACCGCCAGGGGG
 TGGGCGCCTCCCCGTGCTTCCCTCAACACTGTGGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208729 representing NM_010048
 Red=Cloning site Green=Tags(s)

MVPKADSGAFLLLLFLLVLTVEPLRPELRCNPGQFACHGGTIQCIPLPWQCDGWPTCEDKSDEADCPEVT
 GEARPYGKETVDLRQGRARGDPTHFHTVNVAQPVRVSSFLGKCPGWHHYEGTASCYRVYLSGENYWDA
 AQTCQRVNGSLATFSTDQELRFVLAQEWDQPERSFQWQDQKRLWVGYYVITGRNHSLEGRWEVAFKGP
 EVFLPPDPIFASAMSENDNVFCAQLQCFHFPTLRHDLHSHWAESCSEKSSFLCKRSQTCVDIKDNVDE
 GFYFTPKGDDPCLSCTCHRGPEMCVAALCERPQGCQYRKDPKECKFMCLDPDGSSLFDSMASGMRLV
 VSCISSFLILSLLLFMVHRLRQRRRERIESLIGANLHHFNLGRRIPGFDYGPDPGFTGLTPLHLSDGEG
 GTFHFHDPPIPYTAYKYPDMDQDDPPPPYEASINPDSVFDYDPADDAFEPVEASLPAPRDGGIEGALPR
 HLDQPLPAETSLADLEDSTDSSSALLVPPDPAQSGSTPATEAPPGGGRLPRASLNTVV

TRTRPLE - GFP Tag - V

Restriction Sites:

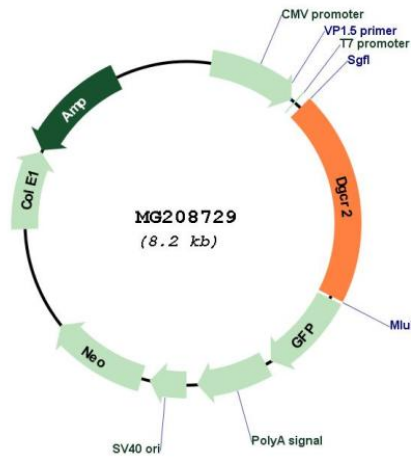
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_010048
ORF Size:	1647 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_010048.3
RefSeq Size:	4040 bp
RefSeq ORF:	1650 bp
Locus ID:	13356
Cytogenetics:	16 11.05 cM
Gene Summary:	Probably plays a role in neural crest cell migration. May play a role in delivery of extracellular signals.[UniProtKB/Swiss-Prot Function]