

Product datasheet for **MG218942**

Dgcr2 (NM_001109750) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dgcr2 (NM_001109750) 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:

>MG218942 representing NM_001109750
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGCCCAAGGCAGACAGCGGTGCCTTCTGCTGCTCTTCTGCTGGTTCTCACTGTACCGAGCCGC
 TCGCGCCAGAGCTTCGGTGCAACCTGGGCAGTTTGCATGTACCGTGGTACCATCCAGTGCATACCCCT
 CCCCTGGCAGTGTGATGGCTGGCCAACGTGTGAGGATAAGAGTGTGAAGCCGACTGTCCAGAAAGTACT
 GGAGAGGCCCGTCTTATGGGAAGGAACTGTGGATCTGCGGCAGGGGCGAGCCAGAGGAGGTGACCCCA
 CACACTCCACACAGTGAACGTGGCTCAGCCTGTACGCTTACAGCAGGAAATGCCCAAGTGGTGGCACCA
 CTATGAAGGCACAGCCAGCTGCTACCGGTCTACCTCAGTGGAGAGAACTACTGGGATGCTGCACAGACC
 TGTGAGCGTGTGAATGGCTCACTGCTACCTTCTCCACTGACCAGGAGCTGCGCTTCGCTCAGCCAGG
 AATGGGACCAGCCAGAGCGGAGCTTCGGCTGGAAGACCAGCGCAAGCTCTGGTTGGTTATCAGTATGT
 CATTACTGGCCGAACCATTCCTTAGAAGTTCGCTGGGAAGTGGCATTCAAAGGCTCCCCAGAAGTGTTC
 CTGCCCCAGATCCCATCTTCGCTCTGCCATGTCTGAGAATGACAACGTGTTCTGCGCCAGCTCCAGT
 GTTCCACTTTCCTACCCTGAGGCACCATGACCTCCACAGCTGGCAGCCGAGAGCTGCTCTGAGAAGTC
 TTCGTTTCTGTGTAAAAGAAGTCAGACGTGTGTTGATATCAAAGATAATGTGGTGGATGAAGGGTCTAC
 TTCCTCCCAAGGGAGATGACCCATGCTTGAGCTGTACCTGCCATCGAGGGGAGCCTGAGATGTGTGTTG
 CTGCCCTGTGTGAGCGGCCCCAGGGGTGTGAGCAGTACCGCAAGGACCCTAAGGAATGCTGCAAATTCAT
 GTGTCTGGACCCAGATGGCAGCAGCCTGTTTACTCCATGGCTAGTGGGATGCGCCTGGTCTGAGCTGT
 ATCTCCTCCTTCTCATCTCTCGCTGCTGCTTTTCATGGTCCACCGGCTACGCCAGCGCGCCGGGAGC
 GCATCGAGTCCCTGATTGGAGCAAACCTTGCAACATTTCAACCTTGCCCGGAGGATCCCTGGCTTTGACTA
 TGGTCCAGATGGGTTTGGCACAGGCCTCACGCCACTACATCTTTCTGACGACGGGGAAGGTGGGACTTTC
 CATTTCACGACCTCCACCTCCTTATACAGCTTACAAGTACCCAGACATGGACCAGCCGGATGATCCAC
 CACCACCCTATGAGGCGTCTATCAACCCAGACAGTGTGTTCTACGACCCTGCAGATGACGATGCCTTTGA
 GCCTGTGGAGGCCAGCCTGCCAGCCCCAAGAGATGGTGGCATTGAAGGTGCATTGCCAGGCACTTGGAT
 CAGCCGCTGCCCCCTGCAGAGACATCCTTAGCAGATCTGGAAGACTCTACAGACAGTAGCAGTGCCTGCTG
 TGGTGCCTCTGATCCCAGAGTGGAAAGCAGCCAGCTACAGAAGCAGCCAGGGGTGGGCGCT
 CCCCCGTCTTCCCTCAACTGTGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218942 representing NM_001109750
 Red=Cloning site Green=Tags(s)

MVPKADSGAFLLFLVLTVTEPLRPELRCPNPQGFACHGGTIQCIPLPWQCDGWPTCEDKSDEADCEVET
 GEARPYGKETVDLRQGRARGDPTHFHTVNVAQPVRFSRKCPSGWHHYEGTASCYRVYLSGENYWDAAQ
 CQRVNGSLATFSTDQELRFVLAQEWDPERSFGWKDQRKLWVGYYVITGRNHSLEGRWEVAFKGSPEVF
 LPPDPIFASAMSENDNVFCAQLQCFHPTLRHHDLSWHAESCSEKSSFLCKRSQTCVDIKDNVVEGFY
 FTPKGGDDPCLSCTCHRGEPEMCVAALCERPQGCQYRKDPKECKFMCLDPDGSSLFDSMASGMRLVVSC
 ISSFLILSLLLFMVHRLRQRRRERIESLIGANLHHFNLGRRIPGFDYGPDPFGTGLTPLHLSDDEGGTF
 HFHDPPPPYTAYKYPMDQPDPPPPYEASINPDSVFDYDADDAFEPVEASLPAPRDGGIEGALPRHLD
 QPLPPAETSLADLEDSTDSSALLVPPDPAQSGSTPATEAPPGGGRLPRASLNTVV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001109750
ORF Size:	1638 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_001109750.1 , NP_001103220.1
RefSeq Size:	4090 bp
RefSeq ORF:	1641 bp
Locus ID:	13356
UniProt ID:	P98154
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]