

## Product datasheet for **MR226364**

### **Gjc2 (NM\_175452) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gjc2 (NM_175452) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gjc2
Synonyms:	B230382L12Rik; Cx47; Gja12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>MR226364 representing NM\_175452  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGACCAACATGAGCTGGAGCTTCTGACGCGGCTGCTGGAGGAGATCCACAATCATTCCACCTTCTGTGG  
GCAAAGTTTGGCTCACTGTGCTGGTGGTCTTCCGCATTGTGCTGACAGCGGTCGGTGGTGGTCCATCTA  
TTCAGATGAGCAATCCAAGTTCACCTGCAACACGCGGAACCGGTTGTGACAACGTCTGTATGACGCC  
TTTGCGCCCTGTCTCATGTGCGCTTCTGGGCTTCCAGATAGTGGTCATCTCCACACCTTCTGTCTGT  
ACCTGGGCTATGCAGTCCACCGCTTGGCGCGGGCCTCGGAACAGGAGCGCAGACGCGCTCTCCGACGTCG  
CCCTGGCACCCGGCGCTTGCCAGGGCGCAGCTGCCACCGCGCCACCTGGCTGGCCGGACACCACCGAT  
CTGGGAGAGCGGAGCCCATATTGGCTCTAGAGGAGGATGAGGACGAGGAGCCGGGGCGCCCGAGGGCC  
CCGGAGAAGACACGGAGGAGGAGCGAGCGGAGGATGTGGCTGCCAAAGGGGGCGGAGGTGATGGCAAGAC  
GGTGGTCACTCCTGGCCCGCGGCGAGCAGCATGGGCGCGGCGCATCCAGAGGGAGGGCTGATGCGT  
GTGTACGTGGCTCAGCTGGTGGTTAGGGCGGCCTTCGAGGTGGCCTTTCTGGTGGCCAGTACCTACTGT  
ACGGCTTCGAGGTGCCACCCCTTCTTGCCTGCAGCCGCCAGCCTTGCCTCCACGTAGTGGATTGCTTCGT  
GTCGCGGCCGACCGAGAAGACGGTCTTCTGTGCTGTACGTGGTGTGCTATGCTTGTGGTCTC  
AACCTCTGTGAGATGGCGCACCTGGGTCTCGGCAGTGCGCAGGATGTGTGCGCGGCCGTCGGGGAGCCT  
CAGCGCGGGGCTGGCCCCACGCCCGCGCCACCGCCCTGCGCTTCCCGGCCCGGGCCGCGCCGCTGGC  
TTGCCCTCCAGACTACAGCCTGGTGGTGCAGCTGAGCGCGCGGAGCGCACGACAGAACTTGGCG  
AACCTAGCGCTGCAGGCGTTGCGCGATGGGCGGCGGTGGCGGCGTTTCGCGGACCGGACAGTCCCG  
CGTGGCTGGGCTCAATGCAACCTCTCGGGGGCACCCAGGGTGGCGGGCCTAGCTTCCGGAAACCGCAG  
CGCCACGTCCGGGGGCACCGTTGGGGAGCAGGCGCGGCCGCGGAGCTCAGGAACAACCTGGCCACTAAGCCC  
AGGGCTGGCTCTGAAAGGGCAGTACAGGCAGCAGAGACGGCAAGGCCACCGTGTGGATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226364 representing NM\_175452  
**Red**=Cloning site **Green**=Tags(s)

MTNMSWSFLTRLLEEIHNHSTFVGKVWLTVLVFRIVLTAVGGESIYSDEQSKFTCNTRQPGCDNVCYDA  
FAPLSHVRWFVFIIVVISTPSVMYLGAVHRLARASEQERRRRALRRRPGTRRLPRAQLPPPPGWPDTTD  
LGEAEPILALEEDEDEEPPGAPEGPGEDTEEERAEDVAAKGGGGDKTIVTPGPAGQHDGRRRIQREGLMR  
VYVAQLVVRAAFEVAFLVGQYLLYGFEVPPFFACSRQPCHVVDCFVSRPTEKTVFLLMYVVVSLCLLLL  
NLCEMAHLGLGSAQDAVRGRRGASAAGPGPTPRPPPCAFPAAAAAGLACPPDYSLVVRAAERARAHQNLA  
NLALQALRDGAOVAASADRDSPPCAGLNATSRGAPRVGGLASGTGSATSGGTVGEQSRPGAQEQLATKP  
RAGSEKSGTSGRDGKATVWI

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKIV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9091\\_f06.zip](https://cdn.origene.com/chromatograms/mm9091_f06.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**ACCN:** NM\_175452

**ORF Size:** 1320 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

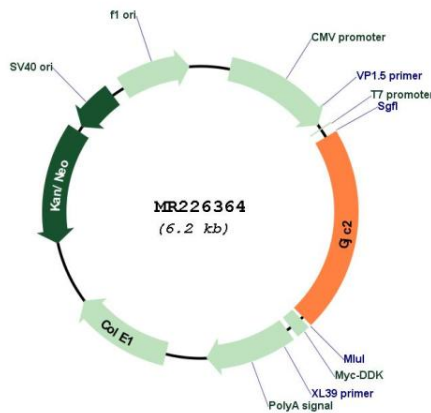
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_175452.4](#), [NP\\_780661.2](#)

RefSeq Size: 2206 bp  
 RefSeq ORF: 1323 bp  
 Locus ID: 118454  
 UniProt ID: [Q8BQU6](#)  
 Cytogenetics: 11 37.05 cM  
 MW: 47 kDa

**Gene Summary:** One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell. May play a role in myelination in central and peripheral nervous systems.  
 [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR226364