

Product datasheet for **MC215862**

Gjc2 (NM_175452) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC215862 representing NM_175452
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACCAACATGAGCTGGAGCTTCTGACGCGGCTGCTGGAGGAGATCCACAATCATTCCACCTTCGTGG
 GCAAAGTTTGGCTCACTGTGCTGGTGGTCTTCCGCATTGTGCTGACAGCCGTCGGTGGTGGAGTCCATCTA
 TTCAGATGAGCAATCCAAGTTCACTGCAACACGCGGCAACCGGGTTGTGACAACGTCTGTATGACGCC
 TTTGCGCCCTGTCTCATGTGCGCTTCTGGGTCTTCCAGATAGTGGTCATCTCCACACCTTCTGTATGT
 ACCTGGGCTATGCAGTCCACCGTTGGCGCGGCTCGGAACAGGAGCGCAGACGCGCTCTCCGACGTGC
 CCCTGGCACC CGCGCTTGCCAGGGCGCAGCTGCCACC GCCCACCTGGCTGGCCGGACACCACCGAT
 CTGGGAGAGCGGAGCCCATATTGGCTCTAGAGGAGGATGAGGACGAGGAGCCGGGGCGCCGAGGGCC
 CCGGAGAAGACACGGAGGAGGAGCGAGCGGAGGATGTGGCTGCCAAAGGGGGCGGAGGTGATGGCAAGAC
 GGTGGTCACTCTGGCCCGCCGGCAGCACGATGGGCGCGGCCATCCAGAGGAGGGCCTGATGCGT
 GTGTACGTGGCTCAGCTGGTGGTTAGGGCGGCCTTCGAGGTGGCCTTCTGGTGGCCAGTACCTACTGT
 ACGGCTTCGAGGTGCCACCTTCTTTCCTGCAGCCGCCAGCCTTGCCCCACGTAGTGGATTGCTTCGT
 GTCGCGGCCGACCGAGAAGACGGTCTTCTTGTGGTCACTGTACGTGGTTAGCTGTCTATGCTTGGTCTC
 AACCTCTGTGAGATGGCGCACCTGGGTCTCGGCAGTGCAGGATGTGTGCGCGCCGTCGGGGAGCCT
 CAGCGCGGGGCTGGCCCCACGCCCGCCACC GCCCTGCGCTTCCCGGCCGCGCCGCCGCGCTGGC
 TTGCCCTCCAGACTACAGCCTGGTGGTGCAGTGCAGTGCAGCGCGCGAGCGCACGACGAACTTGGCG
 AACCTAGCGCTGCAGGCGTTGCGCGATGGGGCGCGGTGGCGCGGTTTCCGCGGACCGACAGTCCCG
 CGTGCCTGGGCTCAATGCAACCTCTCGGGGGCACCCAGGGTGGCGGCCCTAGCTTCCGGAACCGGACG
 CGCCACGTGCGGGGACCGGTTGGGGAGCAGAGCCGCGCGGAGCTCAGGAACAACCTGGCCACTAAGCCC
 AGGGCTGGCTCTGAAAAGGGCAGTACAGGCAGCAGAGACGGCAAGGCCACCGTGTGGATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2670_c06.zip

Restriction Sites: SgfI-MluI

ACCN: NM_175452

Insert Size: 1323 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 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](#)

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:	<u>NM_175452.4</u> , <u>NP_780661.2</u>
RefSeq Size:	2206 bp
RefSeq ORF:	1323 bp
Locus ID:	118454
UniProt ID:	<u>Q8BQU6</u>
Cytogenetics:	11 37.05 cM
Gene Summary:	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) represents the longer transcript. Variants 1 and 2 encode the same protein.</p>