

## Product datasheet for **MC203333**

### Gjd2 (NM\_010290) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gjd2 (NM_010290) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gjd2
Synonyms:	connexin36; cx36; Gja9
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC058595  
 AGCCCCGACGCTAGCTCTGCGCGCCGACGCGGGAGCGCCAGGTGCCCGCTCCAGTGACAGGCGCCGGG  
 GTCCGTGCGCGGACCCTCCCTCAGACCCGAAGATCGCGGGGACCGCGGCGCAGGCACCGGTCTCCCGCGG  
 GCAGGAGCTCGGCCACCTGCACGCTGCCACCCAGCCCCGCCCTCGCCGGGAGACTGCGGGAGTCCATCT  
 GACCCCGGACGGCACCGAGGTGCTGTCCAGCTTCCGCACCGCGCCAGCAGCTCCATTGGTTGGGACG  
 CACATAGATTGCTTCCCCACTCCCCTCTTTAAGTGAATAAAGGGGGAGGGCCTCGTGATTTTTTTA  
 AAAAAAATTTTTGTTTGTCTTTAATTGGGGCAATTCGCTCCCTGTCCAGGAGTGAGGCCCGGGGAG  
 GGGCCAGGACCAAGAACGTGCCCGTACTGCCAGTCTTTGTCTGCTGCCCTCCGGATGCACAGCGATGGG  
 GGAATGGACCATCTTGGAGAGGCTGCTGGAAGCCGCGGTGCAGCAGCACTCCACTATGATTGGGAGGATC  
 CTGTTGACTGTGGTGGTATCTCCGGATACTATTGTGGCCATTGTAGGGGAGACGGTGTACGATGATG  
 AGCAGACCATGTTGTGTGCAACACCCTACAGCCCGGCTGTAACCAGGCCTGCTATGACCAGCCTTTCC  
 CATCTCCATATACGTTACTGGTCTTCCAGATCATAATGGTGTGCACCCCACTCTGTTTTATCACC  
 TATTCTGTGCACCAATCCGCCAAGCAGCAGAGAACGCCGTTACTACTGTCTTCCAGCCTGGACAGAG  
 ACCCTGCTGAGTCTATAGGGGACCTGGAGGAAGTGGGGTGGGGCAGCGGAGGGAGCAAACGAGAAGA  
 TAAGAAGTTGAAAATGCCATTGCAATGGGGTGTGCAGAACACAGAGACCACCAGTAAGGAGACAGAA  
 CCAGATTGCTTAGAGTTAAGAGCTGACTCCACATCCATCTGGGCTGCGCACAGCAGCAAGGTCCAAGC  
 TCCGAAGACAGGAAGGTATCTCCCGCTTACATCATCCAAGTGGTGTTCGAAATGCTCTGGAGATTGG  
 GTTCTGGTGGGCCAGTACTTTCTATATGGCTTCACTGTTCCAGGGTGTATGAGTGCAACCGTTACCCC  
 TGCATCAAGGAGGTAGAATGTTATGTGTCTAGACCTACCGAGAAGACAGTCTTTCTGGTGTTCATGTTT  
 CTGTGAGCGGCATTTGTGTGGTGTCTCAATCTGGCTGAACCTAACCATCTGGGATGGCGGAAGATCAA  
 ACTGGCTGTCCGGGAGCCCAGGCCAAGAGGAAGTCACTATGAGATACGTAACAAAGATCTGCCTCGAGT  
 AGTGTTCCTCAATTTCCGACAGGACTCAGTCCAGTACTCTGCCTATGTGTGAAAGGGCAGGTTTGGGA  
 GCCTGCTAGGTGGCAAGTAGCCCCAAGCCAGATAATGACTCGGGGTTTACAGGTTTGCCTCATTCCGGT  
 GATGCTCGCTGTGAAGGTCTAGGATACAGATATTAAGAGGTCTTCAACAAAGAGGAGGTTAGAACT  
 GTCATCACGTGTTACATCATCAGTTCTACAGAAACCATTGGGTAGAGTACAAGATGGCTAAGCTGGACA  
 TTCTTGGGCTTCTTCTTTAATGGCCCTTCTGCTCCTGATCATAGTGAAGTGGCATAGCTGCCAAGCA  
 AGAATTAGCTCTGCTGAGCTCTGTATTCTGGTGAATGGCATGAGTCAAACACTCATTGATATAAAATTTG  
 TGACCCATCTCAGCACATACCCTTATCCTGGGCTGCAGAAAAAAAATCCTGGAGGATATTTCTCCCCCT  
 TCAGCATGCCCTTTCCAAACCCAGGATAGCATGCCAGCTTTTCTTTTCTTGTATCTGGCCTTACATT  
 AGCCCTAACACAGTTTATCTGCAAGCTAGAGGGAATTACGTGGGGTGTCTTTTGGAGACTAGCCAGGCA  
 GAGGTTTGCAGTAGAGCCCATATGACTGGCTCTTAGTCATTAACAAAACACAAACCTTAGGAATGTCT  
 CAATATTTCCAATTTTTTAAACTCAAATGCACTGGTGTCTTTATTAGGGGTGGGGAATGGGAGGGGG  
 GAATTTCAACACCACTTATGAGATGGTCATTTCACTCACCGTTGAGCATGTGTTATGAGCTTTGGGATA  
 TTTCTGCCTTCTAGATTATGGACTGTGGATAGAATTAATAATATGTGGGTTTTGTTTTGTTTTGTTGTT  
 ATTGTTGTTGTTGTTGAAATGGAGGGTATCTACTCAAGCCACAGAATTTCTAACTGGTAGATCTTACTAT  
 AATTTCTTACCTAATCTGTGCTACGCAGCTGCACATCATTTTGGCATGGTTTGAACCTACCTGTGTGCT  
 CACACCAGAGACCTTAATCAGCCCGTCAATCCCAACTATTGTGTCATCAATTATTTTTGCAATACA  
 CACACATGCACACAATTACTGGCTTAACAAACCTGGAAGTAAATATTATGGTTAAGATATGTTTATGGA  
 TATTTATTTGAGACATATACAAAGTTTATAAACCTGTTGTTTGGACTGAGACAATTTCTCTCGTTG  
 CTCTTATTCATTTAAGTGCCATATTCCTCTTTTCTGCCCCTGTGCATTTAGCTGAAGCACTAGGCAAG  
 AGTAGCATTGAGATAATATGTTTTATGGAAGCCCTATTTTCAATTTGAATCCTTCTTATGAGGTTT  
 TTTTTGATTTAGATATGGATGTGGTATGTTATTTGGATTTGTTTAAATAAAGTTCTTGCCTTTTTTT  
 GTAACCTGAAAAAATAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_010290  
**Insert Size:** 966 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](#)

**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:** [BC058595](#), [AAH58595](#)

**RefSeq Size:** 2907 bp

**RefSeq ORF:** 966 bp

**Locus ID:** 14617

**UniProt ID:** [O54851](#)

**Cytogenetics:** 2 E4

**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.[UniProtKB/Swiss-Prot Function]