

Product datasheet for **MC201034**

Gjb2 (NM_008125) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gjb2 (NM_008125) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gjb2
Synonyms:	A1325222; Cnx26; Cx26; Gjb-2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC013634 sequence for NM_008125
 CCGACGCGTGGGCGCAGCCAGTCCGGCGCGCTCCAGTCCACTGAGCGCAGCCTCCACCGGGACCCGCGGC
 GACCAGCACAGGATCAGCCGGCGACCCATTTCCGGACCAACCCAGGAGCGGCCCGGGACCCGCTTCAGAC
 CTGCTCCTTACCGGGGACAGCGCCTCGCCGCTTCCCGCCACCCACGCTGCACGCTCCTCCGGACACAGT
 GCCAACCATCCAGAGGACAAGATGGATTGGGGCACACTCCAGAGCATCCTCGGGGTGTCAACAAACT
 CCACCAGCATTGAAAAGATCTGGCTCACGGTCTCTTCATCTTCCGCATCATGATCCTCGTGGTGGCTGC
 AAAGGAGGTGTGGGGAGATGAGCAAGCCGATTTTGTCTGCAACACGCTCCAGCCTGGCTGCAAGAATGTA
 TGCTACGACCACCACTTCCCATCTCTCACATCCGGCTCTGGGCTCTGCAGCTGATCATGGTGTCCACGC
 CAGCCCTCCTGGTAGCTATGCATGTGGCTACCGGAGACATGAAAAGAAACGGAAGTTCATGAAGGGAGA
 GATAAAGAACGAGTTTAAGGACATCGAAGAGATCAAAACCCAGAAGTCCGTATCGAAGGGTCCCTGTGG
 TGGACCTACACCACCAGCATCTTCTCCGGGTCTCTTTGAAGCCGTCTTCATGTACGTCTTTTACATCA
 TGTACAATGGCTTCTTCATGCAACGCTCTGGTGAATGCAACGCTTGGCCCTGCCCAATACAGTGGACTG
 CTTCAATTCAGGCCACAGAAAAGACTGTCTTACCCTGTTTATGATTTCTGTGTCTGGAATTTGCATT
 CTGCTAAATATCACAGAGCTGTGCTATTTGTTTCGTTAGGTATTGCTCAGGAAAGTCCAAAAGACCAGTCT
 AATGCATTGCCTGGCTGCTAGAGCAAAGATGGAGGGAGAGGATGAGGCAACCCATGCTTAGTCGCTTAGT
 CCGCAGAGCTCAGCCACCAGCAGTTCCTAAGACAAACATTCCTCATCTAAAATGCCACCATTTGAAGTCCC
 TGGAGGCCTCCTATGAAACTCCAGAAGCCTCCGTGGGCCTCCCTTCCCCAAAGCTCCCAACAAAGGCC
 CAATTCTATGCCTGTATTAATGGGTTCTAAAGTTAGTTCCACTGAGACCCCGTGTGGTAGCGACCAAGC
 TTGGAGGATACATTACAGTTTAAACAAAGGGATCTCACATTGTTTCTTCTCCTCTGAGGACAGGAGAGA
 GGAACCCGGTCTGAGGAAGGTGCCACTGAGAAAGTCCCCCCCCCAAGTACCCTAGCTAAAGGTAAA
 GAAATGCCATACTGTTATTTGCTTTGATAGTTTACGTGTGCAACAATGGACAAAAAGCTATTAATACTTC
 AAGTGTGTGACTTTTTTTTTTAAATGAAAACCTTAAAAAAGATAGGCTCTTTTTTTTCTAAAAATGA
 TCTGAAAGTATTATACATTCTCCTAGTCCAGAGGTTTCAAGTGTGGAAGTGAAGTGGTGTGTAACCCAG
 ATCTCACAGGGTCTTTAAGATGTTGGCCTTTGGGTTATGGGAAACCTGCAGTGTGGCTGAGGGCCACCT
 ATTGTATTCATCACTGGCGTGTGGGCTCAGGGCTATAACCCTACTGCCTGTCATAAGTGAGACAAACTG
 GAAGCGTCTCGTGTGGCTTCTGACAAGAAGAGGCCTCAATTAATAAGTCAACTGTAATTTTGTGTAAG
 AGACAGATAGGATATGCCGACAACCTGCCACCTGCCATGAGCCTAACTCAGCCCCACCCACCCACCC
 CCACCAGTTTGTCTACTCTGTAGCTGTGGGATGTTGCAGTCAGCATCAGAAGATAGGGACTTCATGGGTT
 TGCTTGGGAATTTCACTGCCATGGGACAATTCAATGGTGCAGAAACCAATGGGGTGGTTTTTCAGAGAAC
 CAATGAAACTTCTAGACTCCCAATCCTGTTGATTAATAAAGTTTTTTCTACTTTTGAAGTGTGTTTGC
 CTCCTCTTCAGCATTGCCTTCTTAACTGGAACAGAAATGTGGATATTTGGAAGAAATAGAAGAACTA
 GTTTAGGTCAGTATGTAACCTTTCTAGGGCAAGTTGAACCATTACCACTATGCCTTATGTGTATCCTACA
 AGATGACAGTCAACAAATCCAACAGGGGACACTTCTCCTGCCAAGAATGTCATTGGAAAGCCATTTTGT
 AACAAATAAATAAGAGTTGTGGTTTCATGCTGTGACTGATATAATTTTGTAAACCCTAAATGCCCTTTA
 TAAAAATATGATTATTTTGTATACTTTAAATTAATAAGGTTTTTAAATAGAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_008125
Insert Size: 681 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:

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: [BC013634](#), [AAH13634](#)

RefSeq Size: 2377 bp

RefSeq ORF: 681 bp

Locus ID: 14619

UniProt ID: [Q00977](#)

Cytogenetics: 14 30.1 cM

Gene Summary: Structural component of gap junctions (PubMed:15692151). Gap junctions are dodecameric channels that connect the cytoplasm of adjoining cells. They are formed by the docking of two hexameric hemichannels, one from each cell membrane (By similarity). Small molecules and ions diffuse from one cell to a neighboring cell via the central pore (PubMed:15692151). [UniProtKB/Swiss-Prot Function]