

Product datasheet for **SC122666**

GJB2 (NM_004004) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJB2 (NM_004004) Human Untagged Clone
Tag:	Tag Free
Symbol:	GJB2
Synonyms:	BAPS; CX26; DFNA3; DFNA3A; DFNB1; DFNB1A; HID; KID; NSRD1; PPK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_004004 edited
CGGAGCCCCTCGGCGGCCCGGCCAGGACCCGCCTAGGAGCGCAGGAGCCCCAGCGCA
GAGACCCCAACGCCGAGACCCCCGCCCGCCCGCGCTTCTCCCGACGCAGAGCA
AACCGCCAGAGTAGAAGATGGATTGGGGCAGCTGCAGACGATCCTGGGGGTGTGAAC
AAACTCCACCAGCATTGAAAAGATCTGGCTACCGTCTTTCATTTTTCGCATTATG
ATCCTCGTTGTGGCTGCAAAGGAGGTGTGGGAGATGAGCAGGCCGACTTGTCTGCAAC
CCCTGCAGCCAGGCTGCAAGAACGTGTCTACGATCACTACTTCCCATCTCCACATC
CGGCTATGGGCCCTGCAGCTGATCTTCGTGTCCAGCCAGCGCTCCTAGTGGCCATGCAC
GTGGCCTACCGGAGACATGAGAAGAAGAGAAAGTTCATCAAGGGGAGATAAAGAGTGAA
TTTAAGGACATCGAGGAGATCAAAACCCAGAAGGTCCGCATCGAAGGCTCCCTGTGGTGG
ACCTACACAAGCAGCATCTTCTCCGGGTATCTTGAAGCCGCCTTCATGTACGCTTTC
TATGTCATGTACGACGGCTTCTCCATGCAGCGGCTGGTGAAGTCAACGCCTGGCCTTGT
CCCAACTGTGGACTGCTTTGTGCCCGCCACGGAGAAGACTGTCTTACAGTGTTT
ATGATTGCAGTGTCTGGAATTTGCATCCTGCTGAATGTCAGTGAATGTGTTATTTGCTA
ATTAGATATTGTTCTGGGAAGTCAAAAAAGCCAGTTTAACGCATTGCCAGTTGTTAGAT
TAAGAAATAGACAGCATGAGAGGGATGAGGCAACCCGTGCTCAGCTGTCAAGGCTCAGTC
GCCAGCATTTCCAACACAAAGATTCTGACCTAAATGCAACCATTTGAAACCCCTGTAG
GCCTCAGGTGAAACTCCAGATGCCACAATGGAGCTCTGCTCCCCTAAAGCCTCAAAACAA
AGGCTAATTCTATGCCTGTCTTAATTTCTTTCACTTAAGTTAGTTCCACTGAGACCCC
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TTTGGGTGCTCCTCGGGTCTTTTTGCCAATTTCCCACGTTAAAGGTGAACATTGG
TTCTTTCAATTTGCTTTGGAAGTTTTAATCTTAACAGTGGACAAAGTTACCAGTGCCTTA
AACTCTGTTACACTTTTTGGAAGTGAAAACTTTGTAGTATGATAGGTTATTTGATGTAA
AGATGTTCTGGATACCATTATATGTTCCCCCTGTTTCAGAGGCTCAGATTGTAATATGTA
AATGGTATGTCATTGCTACTATGATTTAATTTGAAATATGGTCTTTTGGTTATGAATAC
TTTGCAGCACAGCTGAGAGGCTGTCTGTTGATTTCATTGTGGTCATAGCACCTAACAAACA
TTGTAGCCTCAATCGAGTGAGACAGACTAGAAGTTCCTAGTGTGGCTTATGATAGCAAA
TGGCCTCATGTCAAATATTTAGATGTAATTTTGTGAAGAAATACAGACTGGATGTACCA
CCAACACTACCTGTAATGACAGGCCTGTCCAACACATCTCCCTTTTCCATGACTGTGGT
AGCCAGCATCGGAAAGAACGCTGATTTAAAGAGGTCGCTTGGGAATTTTATTGACACAGT
ACCATTTAATGGGGAGGACAAAATGGGGCAGGGGAGGGAGAAGTTTCTGTGTTAAAAAC
AGATTTGGAAAGACTGGACTCTAAATCTGTTGATTAAGATGAGCTTTGTCTACTTCAA
AAGTTTGTGTTGCTTACCCTTCAGCCTCCAATTTTTAAGTGAATAATAACTAATAACA
TGTGAAAAGAATAGAAGCTAAGGTTTAGATAAATATTGAGCAGATCTATAGGAAGATTGA
ACCTGAATATTGCCATTATGCTTGACATGGTTTCCAAAAAATGGTACTCCACATACTTCA
GTGAGGGTAAGTATTTTCTGTTGTCAAGAATAGCATTGTAAGCATTGTAATAATA
AAGAATAGCTTTAATGATGCTTGTAACTAAAAATAATTTGTAATGTATCAAATACATT
TAAAACATTAATAATAATCTCTATAATAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004004 unedited GAGTTANCATTTGTATACGACTTATATAGGCGGCCGACTTCCC GGATATCGTCGACC CACGCGTCCGCGGAGCCCCTCGGCGGCCCGCCAGGACCCGCTAGGAGCGCAGGAG CCCCAGCGCAGAGACCCCAACGCCGAGACCCCGCCCGCCCGCCGCGCTTCTCCCG ACGCAGAGCAAACCGCCAGAGTAGAAGATGGATTGGGGCAGCTGCAGACGATCCTGGG GGGTGTGAACAAACACTCCACCAGCATTGAAAAGATCTGGCTCACCGTCTTTCATTTT TCGCATTATGATCCTCGTTGTGGCTGCAAAGGAGGTGTGGGAGATGAGCAGGCCGACTT TGTCTGCAACACCCTGCAGCCAGGCTGCAAGAAGTGTGCTACGATCACTACTTCCCAT CTCCCACATCCGCTATGGGCCCTGCAGCTGATCTTCGTGTCCACGCCAGCGCTCCTAGT GGCCATGCACGTGGCCTACCGGAGACATGAGAAGAAGAGGAAGTTCATCAAGGGGAGAT AAAGAGTGAATTTAAGGACATCGAGGAGATCAAAACCCAGAAGTCCGCATCGAAGGCTC CCTGTGGTGGACTACACAAGCAGCATCTTCTCCGGGTCATCTTGAAGCCGCTTCAT GTACGTCTTCTATGTCATGTACGACGGCTCTCCATGCAGCGGCTGGTGAAGTCAACGC CTGGCCTTGTNCCCAACTGTGGACTGCTTTGTGTCCCGCCACAGAGAAGACTGGTCT CACAGTGTTCATGATTGCAGTGTCTGGAATTTGCATCCTGCTGAATGTCAGTGGATTGGG GTATTTGCTAATAAGAAATGGTCTCGGGAGTCAAAAAGCCAGTTAACGCATTGCCCA GTTGGTAGAT
Restriction Sites:	Please inquire
ACCN:	NM_004004
Insert Size:	2263 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_004004.3 , NP_003995.2
RefSeq Size:	2263 bp
RefSeq ORF:	681 bp
Locus ID:	2706
UniProt ID:	P29033
Cytogenetics:	13q12.11
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane

Gene Summary:

This gene encodes a member of the gap junction protein family. The gap junctions were first characterized by electron microscopy as regionally specialized structures on plasma membranes of contacting adherent cells. These structures were shown to consist of cell-to-cell channels that facilitate the transfer of ions and small molecules between cells. The gap junction proteins, also known as connexins, purified from fractions of enriched gap junctions from different tissues differ. According to sequence similarities at the nucleotide and amino acid levels, the gap junction proteins are divided into two categories, alpha and beta. Mutations in this gene are responsible for as much as 50% of pre-lingual, recessive deafness. [provided by RefSeq, Oct 2008]