

Product datasheet for **SC120085**

GJB1 (NM_000166) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJB1 (NM_000166) Human Untagged Clone
Tag:	Tag Free
Symbol:	GJB1
Synonyms:	CMTX; CMTX1; CX32
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120085 sequence for NM_000166 edited (data generated by NextGen Sequencing)

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ATGAACGGACAGGTTTGTACACCTTGCTCAGTGGCGTGAACCGCATTCTACTGCCATT
GGCCGAGTATGGCTCTCGGTCATCTTCATCTTCAGAATCATGGTCTGGTGGTGGCTGCA
GAGAGTGTGTGGGTGATGAGAAATCTTCCTTCATCTGCAACACACTCCAGCCTGGCTGC
AACAGCGTTTGTATGACCAATTCTTCCCCTATCTCCATGTGCGGCTGTGGTCCCTGCAG
CTCATCTAGTTTCCACCCAGCTCTCCTCGTGGCCATGCACGTGGCTCACCAGCAACAC
ATAGAGAAGAAAATGCTACGGCTTGAGGGCCATGGGGACCCCTACACCTGGAGGAGGTG
AAGAGGCACAAGTCCACATCTCAGGGACACTGTGGTGGACCTATGTCATCAGCGTGGT
TTCCGGCTGTTGTTTGGGCGTCTTCATGTATGTCTTTATCTGCTCTACCCTGGCTAT
GCCATGGTGGCGTGGTCAAGTGGGACGCTACCCCTGCCCAACACAGTGGACTGCTTC
GTGTCGGCCACCCAGAGAAAACCGTCTTCACCGTCTTCATGCTAGCTGCCTCTGGCATC
TGATCATCTCAATGTGGCCGAGTGGTGTACCTCATCATCCGGGCTGTGCCCCCGCA
GCCAGCGCCGCTCCAATCCACCTTCCCAGGGCTCGGGCTTCGGCCACCGCCTCTCA
CCTGAATACAAGCAGAATGAGATCAACAAGCTGCTGAGTGAGCAGGATGGCTCCCTGAAA
GACATACTGCGCCGAGCCCTGGCACCGGGGCTGGGCTGGCTGAAAAGAGCGACCGCTGC
TCGGCCTGCTGA

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Clone variation with respect to NM_000166.5



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000166 unedited TTCACATATTGTAATACGACTCACTATAGGGCGGCCGCGCAGCAGCCAGGTGTGGCA GTGACAGGGAGGTGTGAATGAGGCAGGATGAACTGGACAGGTTTGTACACCTTGCTCAGT GGCGTGAACCGGATTCTACTGCCATTGGCCGAGTATGGCTCTCGGTCATCTTCACTTC AGAATCATGGTGTGGTGGTGGCTGCAGAGAGTGTGTGGGGTATGAGAAATCTTCCCTTC ATCTGCAACACACTCCAGCCTGGCTGCAACAGCGTTTGTATGACCAATTCTTCCCATC TCCCATGTGCGGCTGTGGTCCCTGCAGCTCATCCTAGTTTCCACCCCAGCTCTCCTCGTG GCCATGCACGTGGCTCACCAGCAACACATAGAGAAGAAAATGCTACGGCTTGAGGGCCAT GGGACCCCTACACCTGGAGGAGGTGAAGAGGCACAAGGTCCACATCTCAGGGACACTG TGGTGGACCTATGTCATCAGCGTGGTGTCCGGCTGTTGTTTGGAGCCGCTTTCATGTAT GTCTTTTATCTGCTCTACCCTGGCTATGCCATGGTGGCGCTGGTCAAGTGCAGCTCTAC CCCTGCCCAACACAGTGGACTGCTTTCGTGTCCCGCCCCACCGAGAAAACCGTCTTACC GTCTTCATGCTAGCTGCCTCTGGCATCTGCATCATCTCAATGTGGCCGANGTGGTGTAC CTCATCATCCGGCCTGTGCCCGCCGAGCCAGCGCCGCTCCAATCCACCTTCCCAGAA GGCTCGGGCTTCGGCCACCGCTCTCACCTGAATACAAGCAGAATGAGATTCAACAGCTG CTGAGTGAGCAGGATGGCTCCCTGAAAGAATACTGCGCCGAGCCCTGGCACCCNGGGCTG GGCTGGTGAAAAGACGACCCTGCTCGCCTGCTGTGCACATACCAGCAACTCCCTCCACC CCG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000166 unedited GATCTAGGACCCGCGCCGCATNCTAGNGATCGATTTTTTTTTTTTTTTTTTTTTTTACTGTA AAATCCTGTTTAAATGTGTAACATTTTCAGGCAGAGAGAGGCCTTGGGGACTAGAGGCAGAG GTGGCCTTGACCAACCCCTGCTCCAATTATCTGCCTGCTTCTCTCTCCCTAACTCCCTC ACCCAGACACCTCCTCCTTTTCTTGTGGCCAGCAAGCACTATTCTCCTTTACTAGTG CTGGCCACCTCCTTCTCCACCCACATGTCCACAGCACCCCTGCCCCTGCTCCTCTTA CCCACATCCCTCCTCACTGATGTGACTCCAGAAACAGGGTATCTGACAGCACAGGGTTAA GATTAGTTTCATAAATGGAGACGCTGTCCGGAGCATCCCATCTCTTGTACCCAGTGGTCCC AGAGAGAGGGAGAGGGAAGAGGGAAGGGTGCAGGCAACAAGGGCAGCCACACTCCCAGT AACCTTGAGCACTGGCATAGGTGGCCTCTAGCTCCCCACCCCTCCAGTCTCTCAAAGGA AGGCCCCGGGAGGAAGGGAAGTAGCCAGGAAAAGAAAGTTTTGACCGAGTAATCCCCCAG CAGGCATAAGCCTTGGCCCCCGCGGTCAAAAAGACGGTTTTTTGTCCAATGTTAAGCTC CGGCGTTTTGTTTTGGCACATACCCCCCCTATTCTCCCAATTAGCTCGGTTAGGTTT TTTTTTTTTTTCCCCCCCCCAGTTTTTTTTTATCGCCCTCCAATGTTTCCGC CCCCCCTTACTACTCCCTNACGCCCCCATAAATCGCAATATGATCTCTATAACT ACGTAGGTTAGATGTGTAGCCGCTTATTTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000166
Insert Size:	1750 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:

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_000166.2](#), [NP_000157.1](#)

RefSeq Size: 1638 bp

RefSeq ORF: 852 bp

Locus ID: 2705

UniProt ID: [P08034](#)

Cytogenetics: Xq13.1

Domains: CNX

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

Gene Summary: This gene encodes a member of the gap junction protein family. The gap junction proteins are membrane-spanning proteins that assemble to form gap junction channels that facilitate the transfer of ions and small molecules between cells. 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 cause X-linked Charcot-Marie-Tooth disease, an inherited peripheral neuropathy. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Oct 2008]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1, and is transcribed from promoter P2. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.