

## Product datasheet for SC112319

### GJB3 (NM\_024009) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GJB3 (NM_024009) Human Untagged Clone
Tag:	Tag Free
Symbol:	GJB3
Synonyms:	CX31; DFNA2; DFNA2B; EKV; EKVP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112319 sequence for NM_024009 edited (data generated by NextGen Sequencing)

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ATGGACTGGAAGACACTCCAGGCCCTACTGAGCGGTGTGAACAAGTACTCCACAGCGTTC
GGGCGCATCTGGCTGTCCGTGGTGTTCGTCTTCCGGGTGCTGGTATACGTGGTGGCTGCA
GAGCGCGTGTGGGGGATGAGCAGAAGGACTTTGACTGCAACACCAAGCAGCCCCGCTGC
ACCAACGTCTGCTACGACAACTACTTCCCCATCTCCAACATCCGCCTCTGGGCCCTGCAG
CTCATCTTCGTACATGCCCTCGCTGCTGGTCACTCTGCACGTGGCCTACCGTGAGGAG
CGGGAGCGCCGGCACCAGCAGAAACACGGGGACCAGTGCGCCAAGCTGTACGACAACGCA
GGCAAGAAGCACGGAGGCTGTGGTGGACCTACCTGTTTCAGCCTCATCTTCAAGCTCATC
ATTGAGTTCCTCTTCTCTACCTGCTGCACACTCTCTGGCATGGCTTCAATATGCCGCGC
CTGGTGCAGTGTGCCAACGTGGCCCCCTGCCCAACATCGTGGACTGCTACATTGCCCGA
CCTACCGAGAAGAAAATCTTACCTACTTCATGGTGGGCGCTCCGCCGTCTGCATCGTA
CTACCATCTGTGAGCTCTGCTACCTCATCTGCCACAGGGTCTGCGAGGCTGCACAAG
GACAAGCCTCGAGGGGTTGAGCCCCCTCGTCTCCGCCAGCCGAGCTTCCACCTGCCGC
TGCCACCACAAGCTGGTGGAGGCTGGGGAGGTGGATCCAGACCCAGGCAATAACAAGCTG
CAGGCTTCAGCACCCAACCTGACCCCCATCTGA

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Clone variation with respect to NM\_024009.2



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_024009 unedited CACCAGGCCCTTCCCGCTGTGGGTACAAGTCTGCCCCCAGCTCTCAAAGCCC ACCGGCTCCCTGGAGGCCGAGGTGACGGCCCGTCGACCGGGAGGGGGGCTCCCAGG GGTGGCCACGCACGGTCAAGTCCCAGCCAAAGCGGGACCGGGCTGGGCCGGAAGCGG GCACGGTACTCGCGGCAAACTAGCGTGGCGAGTCTGATTGCAGTCGGACCTGCCGCCG CGGCACTTAACAGTTTGCAGAGTGTCCCGCCCTGATCTCATTGGAGCCTTCGGACAG CCCAGCCATGGCCACCGATGCCCCATTTCACGCCTGAGGAAGCGGAGGCTCAGACGGG CCACCAGCCCCTCCGGAGGCTGGCCCGGAGCGCCTGGCAGCGTGGGTCTAGGAGCCGG CTCCCTCTGCTCCCTCTCCGCGCCGCCGGGTGTGCCCGCCGTCTGTGTGCCACCACT GCTGAGCCAGCTCCGGCGCCCTCGCTCTGCTGTGGGCCCGGGGACGCGGGGTGAGGC CACCAGCTGGCCAGGCCGCTGCAGGTAGGCACGGCCCCACCAGGCGCCATGGACTGGA AGACACTCCAGGCCCTACTGAGCGGTGTGAACAAGTACTCACAGCGTTCGGGCGCATCT GGCTGTCCGTGGTTCGTTCCCGG
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_024009 unedited GGCCAGGAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGATCTGTTCAGGAAAC AGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTATAAAACACA GTATTTATTGATTTCAAGGAAACTGTCTTGAGGATGTTCTATCAGCGCATCCACCAAGT CCCTGGGAGCAGGGTCTGAAAGGCTGGCACCAGCCTGAGCACAGTTGTGGGGAGGAAGAT GGGAGCACCAGTCCCTGAGGCTGAGGGAGTAGGATTTGGGAAAGAGGGCTTCCACTGAG CCAAGTGTGACCTGGGGACCTCTGGGTATCTCCAGAAGCTCTAGTCAGGTTTCATTCTC AGCCCTCCAGACCTGCTGCTGCTGGAAGACCTCCTCTCCACTGCAGGAATCTGGGCGGCT CCTCTGGAGGGAGTAGAGATGCCTTAGGCTGCTGAGGCTAGCCAGGGGAGCAGTCACT TTTTGTGTGGCCTCCAGACCTCTGTGCTGCTGTTGTGTCTGTTGGGAGGACTTCTCACC TCTCTTACACATTATGTCTCAGGGAAGCCTCTCCTGATCATCCCTTCTGGGTTGATCC CTTCTGGTTGAAGCCCTGCTAGCAGTGCCTAAGTGGCCCTTGCAGGCAGCGTAGATA GTTAATTCGCTTGTTCAAAGTCTATGCTCTTTGAGGGCTGGCACTGGGCTGTGGGTTA CCTATNACCCGCTAGACAGCCAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_024009
<b>Insert Size:</b>	2350 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_024009.2</a></u> , <u><a href="#">NP_076872.1</a></u>
<b>RefSeq Size:</b>	2220 bp

RefSeq ORF: 813 bp

Locus ID: 2707

UniProt ID: [O75712](#)

Cytogenetics: 1p34.3

Domains: CNX

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

**Gene Summary:** This gene is a member of the connexin gene family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. Mutations in this gene can cause non-syndromic deafness or erythrokeratoderma variabilis, a skin disorder. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.