

Product datasheet for **SC321666**

GJB3 (NM_001005752) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJB3 (NM_001005752) Human Untagged Clone
Tag:	Tag Free
Symbol:	GJB3
Synonyms:	CX31; DFNA2; DFNA2B; EKV; EKVP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001005752.1
 GCACCCTGGTGGGCAGCCATGGGAGTGTGTGAGGTGGAAGCAGCCGTGAGGGTCCCTCTC
 TGCTCTGTGCCGGACAGACAGGGCTCCAACCTTCACTTCAGTTCTTGTGAACTCCCACC
 AGGTAGGCACGGCCCCACCAGGCGCCATGGACTGGAAGACACTCCAGGCCCTACTGAGC
 GGTGTGAACAAGTACTCCACAGCGTTTCGGGCGCATCTGGCTGTCCGTGGTGTTCGTCTTC
 CGGGTGTGGTATACGTGGTGGCTGCAGAGCGCGTGTGGGGGATGAGCAGAAGGACTTT
 GACTGCAACACCAAGCAGCCCCGGCTGCACCAACGTCTGCTACGACAACACTTCCCCATC
 TCCAACATCCGCCTCTGGGCCCTGCAGCTCATCTTCGTACATGCCCTCGCTGGTGGTC
 ATCCTGCACGTGGCCTACCGTGAGGAGCGGGAGCGCCGGCACCAGCCAGAAACACGGGGAC
 CAGTGGCCAAAGCTGTACGACAACGCAGGCAAGAAGCACGGAGGCCTGTGGTGGACCTAC
 CTGTTACGCCCTCATCTTCAAGCTCATCATTGAGTTCCTTCTCTACCTGCTGCACACT
 CTCTGGCATGGCTTCAATATGCCGCGCTGGTGCAGTGTGCCAACGTGGCCCCCTGCCCC
 AACATCGTGGACTGCTACATTGCCCGACCTACCGAGAAGAAAATTTACCTACTTCATG
 GTGGGCGCCTCCGCCGTCTGCATCGTACTACCATCTGTGAGCTCTGCTACCTCATCTGC
 CACAGGGTCTCGGAGGCTGCACAAGGACAAGCCTCGAGGGGGTTGCAGCCCCTCGTCC
 TCCGCCAGCCGAGCTTCCACCTGCGCTGCCACCAAGCTGGTGGAGGCTGGGGAGGTG
 GATCCAGACCCAGGCAATAACAAGCTGCAGGCTTCAGCACCCAACCTGACCCCCATCTGA
 CCACAGGGCAGGGGTGGGGCAACATGCGGGCTGCCAATGGGACATGCAGGGCGGTGTGGC
 AGGTGGAGAGGTCTACAGGGGCTGAGTGACCCCACTCTGAGTTCACTAAGTTATGCAAC
 TTTTCGTTTTGGCAGATATTTTTTACACTGGGAACTGGGCTGTCTAGCCGGGTATAGGTA
 ACCCACAGGCCAGTGCCAGCCCTCAAAGGACATAGACTTTGAAACAAGCGAATTAATA
 TCTACGCTGCCTGCAAGGGGCCACTTAGGGCACTGCTAGCAGGGCTTCAACCAGGAAGGG
 ATCAACCAGGAAGGGATGATCAGGAGAGGCTTCCCTGAGGACATAATGTGTAAGAGAGG
 TGAGAAGTGCTCCCAAGCAGACACAACAGCAGCACAGAGGTCTGGAGGCCACAAAAAAG
 TGATGCTCGCCCTGGGCTAGCCTCAGCAGACCTAAGGCATCTCTACTCCCTCCAGAGGAG
 CCGCCCAGATTCTGCAGTGGAGAGGAGGTCTTCCAGCAGCAGCAGGTCTGGAGGGCTGA
 GAATGAACCTGACTAGAGGTTCTGGAGATACCCAGAGGTCCCCAGGTCATCACTTGGCT
 CAGTGGAAAGCCCTTTTCCCAAATCCTACTCCCTCAGCCTCAGGCAGTGGTGTCCCAT
 CTTCTCCCCACAACGTGCTCAGGCTGGTGCCAGCCTTTCAGACCCTGCTCCAGGGAC
 TTGGGTGGATGCGCTGATAGAACATCCTCAAGACAGTTTCCTTGAATCAATAAACTAGT
 TGTTTTATACAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001005752

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001005752.1](#), [NP_001005752.1](#)

RefSeq Size: 1777 bp

RefSeq ORF: 813 bp

Locus ID: 2707

UniProt ID: [O75712](#)

Cytogenetics: 1p34.3

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 (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.