

## Product datasheet for SC316177

### GJB1 (NM\_001097642) Human Untagged Clone

#### Product data:

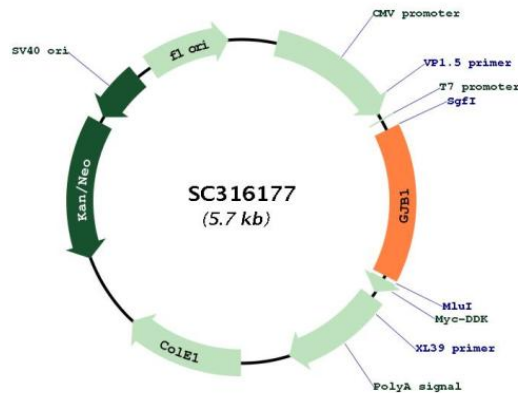
Product Type:	Expression Plasmids
Product Name:	GJB1 (NM_001097642) Human Untagged Clone
Tag:	Tag Free
Symbol:	GJB1
Synonyms:	CMTX; CMTX1; CX32
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316177 representing NM_001097642. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAACTGGACAGGTTTGTACACCTTGCTCAGTGGCGTGAACCGGCATTCTACTGCCATTGGCCGAGTA
TGGCTCTCGGTACATCTTCATCTTCAGAATCATGGTGTGGTGGTGGCTGCAGAGAGTGTGTGGGGTAT
GAGAAATCTTCTTCATCTGCAACACACTCCAGCCTGGCTGCAACAGCGTTTGTATGACCAATTCTTC
CCCATCTCCATGTGCGGCTGTGGTCCCTGCAGCTCATCTAGTTTCCACCCAGCTCTCCTCGTGGCC
ATGCACGTGGCTCACCAGCAACACATAGAGAAGAAAATGCTACGGCTTGAGGGCCATGGGACCCCTA
CACCTGGAGGAGTGAAGAGGCACAAGGTCCACATCTCAGGGACTGTGGTGGACCTATGTCATCAGC
GTGGTGTCCGGCTGTTGTTGAGGCCGTCTTCATGTATGCTTTTATCTGCTCTACCCTGGCTATGCC
ATGGTGGCGGCTGGTCAAGTGCAGCTCTACCCCTGCCCAACACAGTGGACTGCTTCGTGTCCCGCCCC
ACCGAGAAAACCGTCTTACCCTTTCATGCTAGCTGCCTCTGGCATCTGCATCATCCTCAATGTGGCC
GAGGTGGTGTACCTCATCATCCGGGCTGTGCCGCCGAGCCAGCGCCGCTCCAATCCACCTTCCCGC
AAGGGCTCGGGCTTCGGCCACCGCTCTCACCTGAATACAAGCAGAATGAGATCAACAAGCTGCTGAGT
GAGCAGGATGGCTCCCTGAAAGACATACTGCGCCGAGCCCTGGCACCAGGGCTGGGCTGGCTGAAAAG
AGCGACCGCTGCTCGGCCTGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: Sgfl-Mlul



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**Plasmid Map:**


**ACCN:** NM\_001097642

**Insert Size:** 852 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).

**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\\_001097642.2](#)

**RefSeq Size:** 1623 bp

**RefSeq ORF:** 852 bp

<b>Locus ID:</b>	2705
<b>UniProt ID:</b>	<a href="#">P08034</a>
<b>Cytogenetics:</b>	Xq13.1
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other, Transmembrane
<b>MW:</b>	32 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript, and is transcribed from promoter P1. Both variants 1 and 2 encode the same protein.</p>