

## Product datasheet for MR228989

### Gjb1 (NM\_001302497) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gjb1 (NM_001302497) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gjb1
Synonyms:	Cnx32; connex; connexin-32; Cx32; Cxng
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR228989 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTGGACAGGTCTATACACCTTGCTCAGTGGCGTGAATCGGCACTCTACAGCCATTGGCCGAGTAT  
GGCTGTCTGTATCTTCATCTTCAGAAATCATGGTGTGGTGGCTGCTGAGAGCGTGTGGGGGATGA  
GAAGTCTCTTTCATCTGTAACACCTCCAGCCGGGCTGCAACAGCGTCTGCTATGACCATTTTTCCCC  
ATCTCCACGTGCGCCTATGGTCCCTGCAGCTTATCTTGGTTTCCACCCAGCTCTCCTCGTGGCAATGC  
ACGTAGCTCACCAACAGCACATAGAAAAGAAAATGCTACGGCTTGAGGGCATGGGACCCCTTACCT  
GGAAGAGGTAAAGAGACACAAGGTGCACATCTCAGGGACTGTGGTGGACCTATGTCATCAGTGTGGT  
TTCCGGTGTCTGTTGAGGCTGTCTTCATGTATGTCTTCTATCTGCTCTACCCCGGCTATGCCATGGTGC  
GGCTGGTCAAGTGTGAAGCCTTCCCTGCCCAACACAGTGGACTGCTTCGTGTCCCGCCACCCGAGAA  
AACCGTCTTCACTGTCTTATGCTCGCAGCCTCCGGCATCTGCATTATCCTCAACGTGGCGGAGGTGGT  
TACCTCATCATCCGGCCTGTGCCCGCGTGTGTCAGCGCCGCTCCAATCCGCCCTCCCGAAGGGCTCGG  
GCTTCGGCCACCGCCTCTCACCTGAATAACAAGCAGAATGAGATCAACAAGCTGCTGAGCGAGCAGGATGG  
CTCTCTGAAAGACATACTGCGCCGACGCCCTGGCACAGGGGCCGGCTCGCTGAAAAGAGCGACCGATGC  
TCAGCCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR228989 protein sequence  
Red=Cloning site Green=Tags(s)

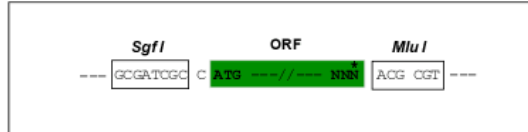
MNWTGLYTLISGVNRHSTAIGRVLSVIFIFRIMVLVVAESVWGDEKSSFCNTLQPGCNSVCYDHFPP  
 ISHVRLWSLQLILVSTPALLVAMHVAHQHIEKKMLRLEGHGDPHLHEEVKRHKVHISGLWWTYVISVV  
 FRLLFEAVFMYVFYLLYPGYAMVRLVKCEAFPCPNTVDCFVSRPTEKTVFTVFMLAASGICILNVAEVS  
 YLIIRACARRAQRNSNPPSRKGSFGHRLSPEYKQNEINKLLSEQDGLKDILRRSPGTGAGLAEKSDRC  
 SAC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001302497

**ORF Size:** 852 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001302497.1](#), [NP\\_001289426.1](#)

**RefSeq Size:** 1599 bp

**RefSeq ORF:** 852 bp

**Locus ID:** 14618

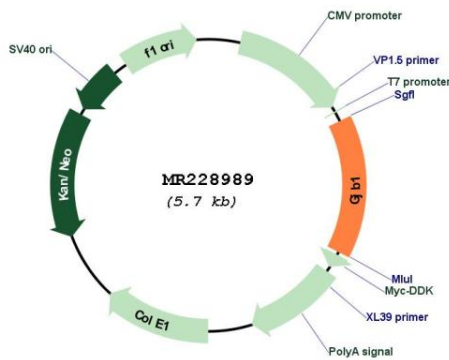
**UniProt ID:** [P28230](#)

**Cytogenetics:** X 44.06 cM

**MW:** 32 kDa

**Gene Summary:** This gene is a member of the gap junction protein (connexin) 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 ions and small molecules between cells. Mutations in a similar gene in human cause X-linked Charcot-Marie-Tooth disease, an inherited peripheral neuropathy. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Oct 2014]

**Product images:**



Circular map for MR228989