

## Product datasheet for MR206194

### Gjc1 (NM\_001159382) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gjc1 (NM_001159382) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gjc1
Synonyms:	C130009G16Rik; Cnx45; Cx45; Gja-7; Gja7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206194 representing NM_001159382 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTTGGAGCTTCTGACTCGCTGCTAGAGGAGATCCACAACCATTGACATTTGTAGGAAGATCT  
GGCTCACTGTGCTGATTGTCTTTTCGAATTGCTCAACTGCTGTAGGAGGAGAGTCCATCTACTATGATGA  
ACAAAGCAAATTTGTGTGCAACACAGAGCAGCCGGGCTGTGAGAATGTCTGCTATGATGCCTTTGCCCG  
CTCTCCCAGTGCCTTCTGGGTATTCCAGATCATCTGGTTGCAACTCCCTCTGTGATGTACCTGGGAT  
ATGCTATTCATAAGATTGCCAAAATGGAGCATGGCGAGGCAGACAAGAAGGCAGCTCGGAGCAAACCTA  
TGCCATGCGTTGGAAACAGCACCCGGGCTCTGGAAGAAACGGAAGAGGACCATGAAGAGGATCCTATGATG  
TATCCAGAGATGGAGTTAGAAAGCGAAAAAGAAAATAAAGAGCAGAGCCAACCAAAACCTAAGCATGATG  
GCCGACGACGAATTCGAGAGGATGGGCTCATGAAAATCTATGTGTTGCAGCTGCTGGCCAGGACTGTGTT  
TGAGGTGGGCTTTCTAATAGGGCAGTATTTCTGTATGGCTTCCAAGTCCACCCATTTTATGTGTGCAGC  
AGACTTCCTTGCCCTCATAAGATAGACTGCTTTATTTCTAGACCCACTGAAAAGACCATCTTCTTCTGA  
TAATGTATGGTGTACAGGCCTGCTTATTGCTTAACATTTGGGAGATGCTTCACTTAGGGTTGGGAC  
AATTCGAGACTCACTAACAGTAAAAGGAGGGAACCTTGATGATCCGGGTGCTTATAATTATCCTTTCACT  
TGAACACACCCCTGCTCCCCCTGGCTATAACATTGCTGTCAAACCAGATCAGATCCAGTACACTGAGC  
TGTCGAATGCTAAGATTGCTACAAGCAAACAAAGCCAATATTGCCAGGAACAGCAGTACGGCAGCCA  
CGAGGAACACCTCCCGGCTGATCTGGAGACTCTGCAGCGGGAGATCAGAATGGCTCAGGAACGCTTGGAC  
CTAGCAATCCAGGCCTACCATCACAAAACAACCCCATGGTCCTCGGAAAAGAAGGCCAAAGTGGGGT  
CCAAATCTGGGTCCAACAAAAGCAGTATTAGTAGCAAAATCAGGGGATGGGAAGACCTCCGCTGGATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206194 representing NM\_001159382  
Red=Cloning site Green=Tags(s)

MSWSFLTRLLEEIHNHSTFVGKIWLTVLIVFRIVLTAVGGESIYYDEQSKFVCNTEQPGCENVCYDAFAP  
 LSHVRFVWFQIILVATPSVMYLGAIHKIAKMEHGEADKKAARSKPYAMRWKQHRALTEEDHEEDPMM  
 YPEMELESEKENKEQSQPKPKHDGRRRIREDGLMKIYVLQLLARTVFEVGFLLIGQYFLYGFVHPFYVCS  
 RLPCHKIDCFISRPTKTIIFLLIMYGTGLCLLLNIWEMLHLGFGTIRDSLNSKRRELDGPGAYNYPFT  
 WNTPSAPPGYNI AVKPDQIQYTELSNAKIAYKQNKANIAQEQQYGSHEEHL PADLET LQREIRMAQERLD  
 LAIQAYHHQNNPHGPREKKAKVGSKSGSNKSSISSKSGDGKTSVWI

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\_001159382

**ORF Size:** 1188 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\\_001159382.1](#), [NP\\_001152854.1](#)

**RefSeq Size:** 1984 bp

**RefSeq ORF:** 1191 bp

**Locus ID:** 14615

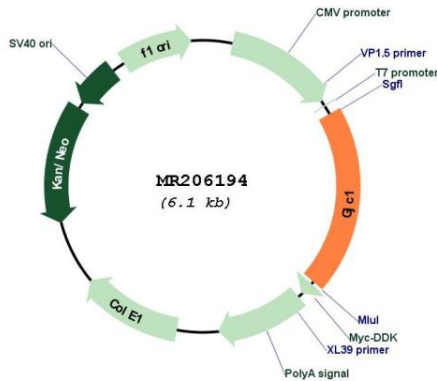
**UniProt ID:** [P28229](#)

**Cytogenetics:** 11 E1

**MW:** 45.7 kDa

**Gene Summary:** One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206194