

Product datasheet for RC218725

GJC1 (NM_001080383) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJC1 (NM_001080383) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GJC1
Synonyms:	CX45; GJA7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218725 representing NM_001080383 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTGGAGCTTCTGACTCGCCTGCTAGAGGAGATTCACAACCATTCCACATTTGTGGGAAGATCT
GGCTCACTGTTCTGATTGTCTCCGGATCGTCCTTACAGCTGTAGGAGGAGAATCCATCTATTACGATGA
GCAAAGCAAATTTGTGTGCAACACAGAACAGCCGGGCTGTGAGAATGTCTGTTATGATGCGTTTGACCT
CTCTCCCATGTACGTTCTGGGTGTTCCAGATCATCCTGGTGGCAACTCCCTCTGTGATGTACCTGGCT
ATGCTATCCACAAGATTGCCAAAATGGAGCACGGTGAAGCAGACAAGAAGGCAGCTCGGAGCAAGCCCTA
TGCAATGCGCTGGAAACAACACCCGGGCTCTGGAAGAAACGGAGGAGGACAACGAAGAGGATCCTATGATG
TATCCAGAGATGGAGTTAGAAAAGTGATAAGGAAAATAAAGAGCAGAGCCAACCCAAAACCTAAGCATGATG
GCCGACGACGGATTCCGGGAAGATGGGCTCATGAAAATCTATGTGCTGCAGTTGCTGGCAAGGACCGTGT
TGAGGTGGGTTTTCTGATAGGGCAGTATTTCTGTATGGCTTCCAAGTCCACCCGTTTTATGTGTGCAGC
AGACTTCCTGTCTCATAAGATAGACTGCTTTATTTCTAGACCCACTGAAAAGACCATCTTCTCTCTGA
TAATGTATGGTGTACAGGCCTTTGCCTCTTGTAAACATTTGGGAGATGCTTCATTTAGGGTTGGGAC
CATTGAGACTCACTAACAGTAAAAGGAGGGAACCTTGAAGATCCGGGTGCTTATAATTATCCTTTCACT
TGAATACACCATCTGCTCCCCGGCTATAACATTGCTGTCAAACAGATCAAATCCAGTACACCGAAC
TGTCCAATGCTAAGATCGCTACAAGCAAACAAGGCCAACACAGCCAGGAACAGCAGTATGGCAGCCA
TGAGGAGAACCTCCAGCTGACCTGGAGGCTCTGCAGCGGGAGATCAGGATGGCTCAGGAACGCTTGGAT
CTGGCAGTTCAGGCCTACAGTCACCAAACAACCCCTCATGGTCCCAGGAGAGAAGGCCAAAGTGGGGT
CCAAAGCTGGGTCCAACAAAAGCACTGCCAGTAGCAAATCAGGGGATGGGAAGACCTCCGCTGGATT

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC218725 representing NM_001080383
 Red=Cloning site Green=Tags(s)

MSWSFLTRLLEEIHNHSTFVGKIWLTVLIVFRIVLTAVGGESIYYDEQSKFVCNTEQPGCENVCYDAFAP
 LSHVRFWVFQIILVATPSVMYLGYAIHKIAKMEHGEADKKAARSKPYAMRWKQHRLEETEEDNEEDPMM
 YPEMELES DKENKEQS QPKPKHDGRRRIREDGLMKIYVLQLLARTVFEVGF LIGQYFLYGFQVHPFYVCS
 RLPCHPKIDCFISRPTKTIIFLLIMYGTGLCLLLNIWEMLHLGFGTIRDLSLNSKRRELEDPGAYNYPFT
 WNTPSAPPGYNIAVKPDQIQYTELSNAKIA YKQNKANTAQEQQYGSHEENLPADLEALQREIRMAQERLD
 LAVQAYSHQNNPHGPREKKAKVGSKAGSNKSTASSKSGDGKTSVWI

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_001080383

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_001080383.1](#), [NP_001073852.1](#)

RefSeq Size: 7640 bp

RefSeq ORF: 1191 bp

Locus ID: 10052

UniProt ID: [P36383](#)

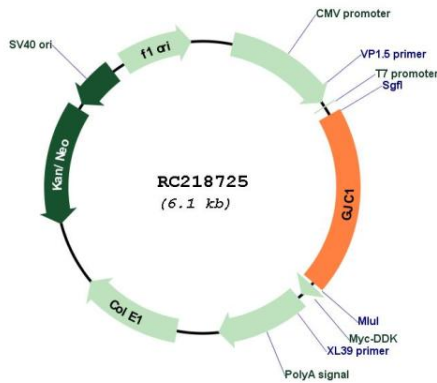
Cytogenetics: 17q21.31

Protein Families: Ion Channels: Other, Transmembrane

MW: 45.3 kDa

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. Alternatively spliced transcript variants encoding the same isoform have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218725