

Product datasheet for RC211939

GJC1 (NM_005497) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJC1 (NM_005497) 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:	>RC211939 representing NM_005497 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTGGAGCTTCTGACTCGCTGCTAGAGGAGATTCACAACCATTCCACATTTGTGGGAAGATCT
GGCTCACTGTTCTGATTGTCTCCGGATCGTCCTTACAGCTGTAGGAGGAGAATCCATCTATTACGATGA
GCAAAGCAAATTTGTGTGCAACACAGAACAGCCGGGCTGTGAGAATGTCTGTTATGATGCGTTTGCACCT
CTCTCCCATGTACGCTTCTGGGTGTTCCAGATCATCCTGGTGGCAACTCCCTCTGTGATGTACCTGGCT
ATGCTATCCACAAGATTGCCAAAATGGAGCACGGTGAAGCAGACAAGAAGGCAGCTCGGAGCAAGCCCTA
TGCAATGCGCTGGAAACAACACCCGGGCTCTGGAAGAAACGGAGGAGGACAACGAAGAGGATCCTATGATG
TATCCAGAGATGGAGTTAGAAAAGTATAAGGAAAATAAAGAGCAGAGCCAACCCAAAACCTAAGCATGATG
GCCGACGACGGATTCCGGGAAGATGGGCTCATGAAAATCTATGTGCTGCAGTTGCTGGCAAGGACCGTGT
TGAGGTGGGTTTTCTGATAGGGCAGTATTTCTGTATGGCTTCCAAGTCCACCCGTTTTATGTGTGCAGC
AGACTTCCTGTCTCATAAGATAGACTGCTTTATTTCTAGACCCACTGAAAAGACCATCTTCTCTGTA
TAATGTATGGTGTACAGGCCTTTGCCTCTTGCTTAACATTTGGGAGATGCTTCATTTAGGGTTGGGAC
CATTGAGACTCACTAAACAGTAAAAGGAGGGAACCTTGAAGATCCGGGTGCTTATAATTATCCTTTCACT
TGAATACACCATCTGCTCCCCGGCTATAACATTGCTGTCAAACAGATCAAATCCAGTACACCGAAC
TGTCGAATGCTAAGATCGCTACAAGCAAAAACAAGGCCAACACAGCCAGGAACAGCAGTATGGCAGCCA
TGAGGAGAACCTCCAGCTGACCTGGAGGCTCTGCAGCGGGAGATCAGGATGGCTCAGGAACGCTTGGAT
CTGGCAGTTACAGGCTACAGTCACCAAAAACAACCTCATGGTCCCAGGAGAGAAGAAGCCAAAAGTGGGGT
CCAAAAGCTGGGTCCAACAAAAGCACTGCCAGTAGCAAAATCAGGGGATGGGAAGACCTCCGCTGGATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC211939 representing NM_005497
 Red=Cloning site Green=Tags(s)

MSWSFLTRLLEEIHNHSTFVGKIWLTVLIVFRIVLTAVGGESIYYDEQSKFVCNTEQPGCENVCYDAFAP
 LSHVRFWVFQIILVATPSVMYLGAIHKIAKMEHGEADKKAARSKPYAMRWKQHRALEETEEDNEEDPMM
 YPEMELESCKENKEQSQPKPKHDGRRRIREDGLMKIYVLQLLARTVFEVGFLLIGQYFLYGFVHPFYVCS
 RLPCHKIDCFISRPTKTIIFLLIMYGVGTGLCLLLNIWEMLHLGFGTIRDLSLNSKRREEDPGAYNYPFT
 WNTPSAPPGYNI AVKPDQIQYTELSNAKIA YKQNKANTAQEQQYGSHEENLPADLEALQREIRMAQERLD
 LAVQAYSHQNNPHGPREKKAKVGSKAGSNKSTASSKSGDGKTSVWI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_005497

ORF Size: 1188 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_005497.4](#)

RefSeq Size: 7644 bp

RefSeq ORF: 1191 bp

Locus ID: 10052

UniProt ID: [P36383](#)

Cytogenetics: 17q21.31

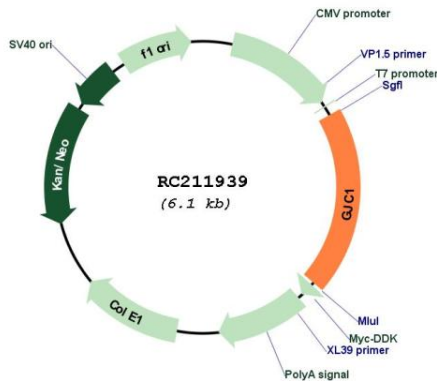
Domains: CNX

Protein Families: Ion Channels: Other, Transmembrane

MW: 45.5 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 RC211939