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Product datasheet for RC218491

GJC1 (GJD3) (NM_152219) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJC1 (GJD3) (NM_152219) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GJC1
Synonyms:	Cx30.2; CX31.9; GJA11; GJC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC218491 representing NM_152219
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGAGTGGGCGTTCCTGGGCTCGCTGCTGGACGCCGTGCAGCTGCAGTCGCCGCTCGTGGGCCGCC
TCTGGCTGGTGGTCATGCTGATCTTCCGCATCCTGGTGCTGGCCACGGTGGGCGGCGCCGTGTTCGAGGA
CGAGCAAGAGGAGTTCGTGTGCAACACGCTGCAGCCGGGCTGTCGCCAGACCTGCTACGACCGCGCCTTC
CCGGTCTCCCACTACCGCTTCTGGCTCTTCCACATCCTGCTGCTCTCGGCGCCCCCGGTGCTGTTCGTCG
TCTACTCCATGCACCGGGCAGGCAAGGAGGCGGGCGGCGCTGAGGCGGCGGCGCAGTGCGCCCCCGGACT
GCCCGAGGCCCAGTGCGCGCCGTGCGCCCTGCGCGCCCGCCGCGCGCGCCGCTGCTACCTGCTGAGCGTG
GCGCTGCGCCTGCTGGCCGAGCTGACCTTCCTGGGCGGCCAGGCGCTGCTCTACGGCTTCCGCGTGGCCC
CGCACTTCGCGTGCGCCGGTCCGCCCTGCCCGCACACGGTCGACTGCTTCGTGAGCCGGCCCACCGAGAA
GACCGTCTTCGTGCTCTTCTATTTCGCGGTGGGGCTGCTGTCGGCGCTGCTCAGCGTAGCCGAGCTGGGC
CACCTGCTCTGGAAGGGCCGCCCGCGCGCCGGGGAGCGTGACAACCGCTGCAACCGTGCACACGAAGAGG
CGCAGAAGCTGCTCCCGCCGCCGCCGCCGCCACCTCCGCCACCGGCCCTGCCCTCCCGGCGCCCCGGCCC
CGAGCCGTGCGCCCCGCCGGCCTATGCGCACCCGGCGCCGGCCAGCCTCCGCGAGTGCGGCAGCGGCCGC
GGCAAGGCGTCACCGGCCACCGGCCGCCGAGATCTGGCCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC218491 representing NM_152219
Red=Cloning site Green=Tags(s)

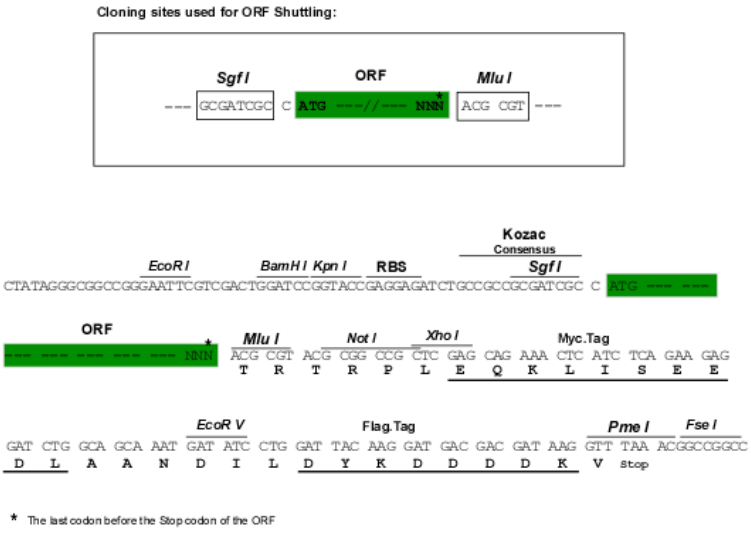
MGEWAFLGSLLDAVQLQSPLVGRLWLVVMLIFRILVLATVGGAVFEDEQEEFVCNTLQPGCRQTCYDRAF
PVSHYRFWLFHILLLSAPPVLFVVYSMHRAGKEAGGAEAAAQCAPGLPEAQCAPCALRARRARRCYLLSV
ALRLLAELTFLGGQALLYGFRVAPHFACAGPPCPHTVDCFVSRPTEKTVFVLFYFAVGLLSALLSVAELG
HLLWKGRPRAGERDNRCNRAHEEAQKLLPPPPPPPPPPALPSRRPGPEPCAPPAYAHPAPASLRECGSGR
GKASPATGRRDLAI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8121_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152219

ORF Size: 882 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_152219.4

RefSeq Size: 4042 bp

RefSeq ORF: 885 bp

Locus ID: 125111

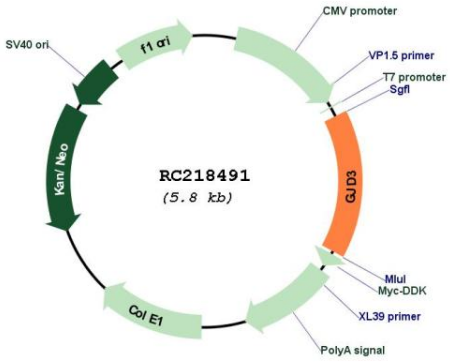
UniProt ID: Q8N144

Cytogenetics: 17q21.2

MW: 32.4 kDa

Gene Summary: This gene is a member of the large family of connexins that are required for the formation of gap junctions. Six connexin monomers form a hemichannel, or connexon, on the cell surface. This connexon can interact with a connexon from a neighboring cell, thus forming a channel linking the cytoplasm of the 2 cells. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218491