

Product datasheet for **RG212096**

GJC2 (NM_020435) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJC2 (NM_020435) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GJC2
Synonyms:	CX46.6; Cx47; GJA12; HLD2; LMPH1C; LMPHM3; PMLDAR; SPG44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212096 representing NM_020435 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCAACATGAGCTGGAGCTTCTGACGCGGCTGCTGGAGGAGATCCACAACCACTCCACCTTCGTGG
GCAAGGTGTGGCTCACGGTGTGGTGTCTCCGCATCGTGTGACGGCTGTGGGCGCGAGGCCATCTA
CTCGGACGAGCAGGCCAAGTTCACTTGAACACGCGGCAGCCAGGCTGCGACAACGTCTGCTATGACGCC
TTCGCGCCCTGTGCGACGTGCGCTTCTGGTCTTCCAGATTGTGGTCTCTCCACGCCCTCGGTATGT
ACCTGGGTACGCGTGCACCGCTGGCCCGTGCCTGTGAGCAGGAGCGGCGCCGCGCCCTCCGCCGCC
CCCGGGCCACGCGCGCGCCCGAGCGCACCTGCCGCCCGCACGCGCGCTGGCTGAGCCCGCCGAC
CTGGGCGAGGAGGCCATGCTGGCCTGGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
GCGCCGCGAGGAAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
GGCGGACGGGACCCCGGGCCGACCGGGCAACACGATGGGCGGAGGCGCATCCAGCGGGAGGGCCTGATG
CGCGTGTACGTGGCCAGCTGGTGGCCAGGGCAGCTTTCGAGGTGGCCTTCTGGTGGGCCAGTACCTGC
TGTACGGCTTCGAGGTGCGACCGTTCTTCCCTGCAGCCGCCAGCCCTGCCCGCAGTGGTGGACTGCTT
CGTGTGCGGCCCTACTGAAAAGACGGTCTTCTGCTGGTATGTACGTGGTCACTGCTGTGCCTGTGCCTGCTG
CTCAACCTCTGTGAGATGGCCACCTGGGCTTGGCAGCGCGCAGGACGCGGTGCGCGGCCCGCGGCC
CCCGGGCCTCCGCCCCCGCCCCGCGCCCGCCCGCCCGCCCTGCGCCTTCCCTGCGGCGGCCGCTGGCTT
GGCCTGCCCGCCGACTACAGCCTGGTGGTGGGCGGCCGAGCGCGCTCGGGCGCATGACCAGAACCTG
GAAACCTGGCCCTGCAGGCGCTGCGGACGGGCGAGCGGCTGGGACCGCGACCGGGACAGTTCGCCGT
GCGTGGCCTCCCTGCGGCTCCCGGGGCCCCCAGAGCAGGCGCCCGCGTCCCGGACGGGACAGTGC
TACCTCTGCGGGCACTGTGGGAGCAGGGCCGGCCCGCACCCACGAGCGGCCAGGAGCCAGCCAGG
GCTGGCTCCGAGAAGGGCAGTGCCAGCAGCAGGGACGGGAAGACCACCGTGTGGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212096 representing NM_020435
Red=Cloning site Green=Tags(s)

MTNMSWSFLTRLLEEIHNHSTFVGKVLTVLVFRIVL TAVGGEAIYSDEQAKFTCNTRQPGCDNVCYDA
 FAPLSHVRWFVFIIVVISTPSVMYLGAVHRLARASEQERRRALRRRPGPRRAPRAHLPPPHAGWPEPAD
 LGEEEPMLGLGEEEEEEETGAAEGAGEEAEEAGAEAEACTKAVGADGKAAGTPGPTGQHDGRRRIQREGLM
 RYYVAQLVARAAFEVAFVLVGYLLYGFVVRPFFPCSRQPCPHVVDVCFVSRPTEKTVFLLVMYVVSCLCLL
 LNLCEMAHLGLGSAQDAVRGRRPPASAPAPAPRPPPCAFPAAAAGLACPPDYSLVVRAAERARAHDQNL
 ANLALQALRDGAAAGDRDRDSSPCVGLPAASRGPPRAGAPASRTGSATSAGTVGEQGRPGTHERPGAKPR
 AGSEKGSASSRDGKTTVWI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020435

ORF Size: 1317 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_020435.4](#)

RefSeq Size: 2411 bp

RefSeq ORF: 1320 bp

Locus ID: 57165

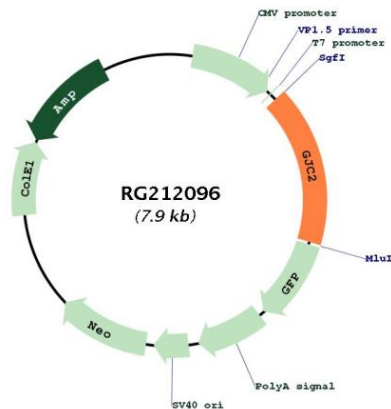
UniProt ID: [Q5T442](#)

Cytogenetics: 1q42.13

Protein Families: Ion Channels: Other

Gene Summary: This gene encodes a gap junction protein. Gap junction proteins are members of a large family of homologous connexins and comprise 4 transmembrane, 2 extracellular, and 3 cytoplasmic domains. This gene plays a key role in central myelination and is involved in peripheral myelination in humans. Defects in this gene are the cause of autosomal recessive Pelizaeus-Merzbacher-like disease-1. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG212096