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Product datasheet for RC210158

GJD2 (NM_020660) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJD2 (NM_020660) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GJD2
Synonyms:	CX36; GJA9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC210158 representing NM_020660
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGAATGGACCATCTTGGAGAGGCTGCTAGAAGCCGCGGTGCAGCAGCACTCCACTATGATCGGGA
GGATCCTGTTGACTGTGGTGGTGATCTTCCGGATCCTCATTGTGGCCATTGTGGGGGAGACGGTGTACGA
TGATGAGCAGACCATGTTTGTGTGCAACACCCTGCAGCCCGGCTGTAACCAGGCCTGCTATGACCGCGCC
TTCCCCATCTCCCACATACGTTACTGGGTCTTCCAGATCATAATGGTGTGTACCCCCAGTCTTTGCTTCA
TCACCTACTCTGTGCACCAGTCCGCCAAGCAGCGAGAACGCCGCTACTCTACAGTCTTCCTAGCCCTGGA
CAGAGACCCCCCTGAGTCCATAGGAGGTCCTGGAGGAACTGGGGGTGGGGGCAGTGGTGGGGGCAAACGA
GAAGATAAGAAGTTGCAAAATGCTATTGTGAATGGGGTGCTGCAGAACACAGAGAACACCAGTAAGGAGA
CAGAGCCAGATTGTTTAGAGGTTAAGGAGCTGACTCCACACCCATCAGGTCTACGCACTGCATCAAAATC
CAAGCTCAGAAGGCAGGAAGGCATCTCCCGCTTCTACATTATCCAAGTGGTGTTCCGAAATGCCCTGGAA
ATTGGGTTCCTGGTTGGCCAATATTTTCTCTATGGCTTTAGTGTCCCAGGGTTGTATGAGTGTAACCGCT
ACCCCTGCATCAAGGAGGTGGAATGTTATGTGTCCCGGCCAACTGAGAAGACTGTCTTTCTAGTGTTCAT
GTTTGCTGTAAGTGGCATCTGTGTTGTGCTCAACCTGGCTGAACTCAACCACCTGGGATGGCGCAAGATC
AAGCTGGCTGTGCGAGGGGCTCAGGCCAAGAGAAAGTCAATCTATGAGATTCGTAACAAGGACCTGCCAA
GGGTCAGTGTTCCCAATTTTGGCAGGACTCAGTCCAGTGACTCTGCCTATGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC210158 representing NM_020660
Red=Cloning site Green=Tags(s)

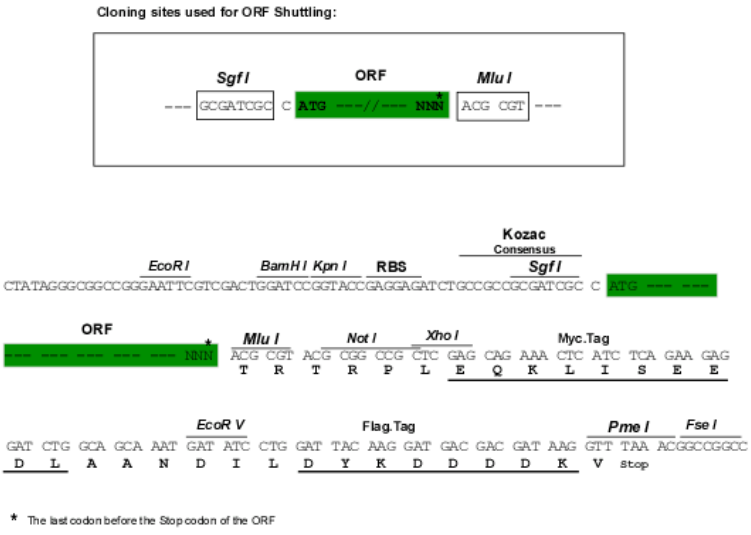
MGEWTILERLLEAAVQQHSTMIGRILLTVVVIFRILIVAIVGETVYDDEQTMFVCNTLQPGCNQACYDRA
FPISHIRYWVFQIIMVCTPSLCFITYSVHQSAKQRERRYSTVFLALDRDPPESIGGPGGTGGGGSGGGKR
EDKKLQNAIVNGVLQNTENTSKETEPDCLEVKELTPHPSGLRTASKSKLRRQEGISRFYIIQVVFRNALE
IGFLVGQYFLYGFSVPGLYECNRYPCIKEVECYVSRPTEKTVFLVFMFAVSGICVVLNLAELNHLGWRKI
KLAVRGAQAKRKSIYEIRNKDLPRVSVPNFGRTQSSDSAYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3623_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020660

ORF Size: 963 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_020660.3

RefSeq Size: 966 bp

RefSeq ORF: 966 bp

Locus ID: 57369

UniProt ID: Q9UKL4

Cytogenetics: 15q14

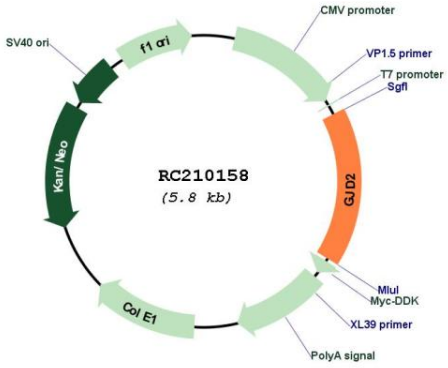
Protein Families: Ion Channels: Other, Transmembrane

Protein Pathways: Gap junction

MW: 35.9 kDa

Gene Summary: This gene encodes a member of the connexin protein family. Connexins are gap junction proteins which are arranged in groups of 6 around a central pore to form a connexon, a component of the gap junction intercellular channel. The channels formed by this protein allow cationic molecule exchange between human beta cells and may function in the regulation of insulin secretion. [provided by RefSeq, Oct 2012]

Product images:



Circular map for RC210158