

Product datasheet for **RR216679**

Gjc2 (NM_001100784) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gjc2 (NM_001100784) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gjc2
Synonyms: Cx47; Gja12
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR216679 representing NM_001100784
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACCAACATGAGCTGGAGCTTCTGACGCGGCTGCTGGAGGAGATCCACAATCATTCCACCTTCGTGG
GCAAAGTTTGGCTCACTGTACTGGTGGTCTTCCGATTGTGCTAACGGCTGTCGGTGGTGGTCCATCTA
TTCAGATGAGCAATCAAGTTCACCTGCAACACGCGCCAACCGGGTTGTGACAACGTCTGCTACGACGCC
TTTGCGCCCTGTCTCATGTGCGCTTCTGGGTCTTCCAGATAGTGGTCATCTCTACACCTTCTGTATGT
ACCTGGGCTATGCTGTCCATCGCTGGCGCGCCTCGGAGCAGGAGCGCAGGCGGGCCCTCCGACGTCCG
CCCTGGCCCCCGCGCTTGGCCAGGGCGCAGCTGCCACCGCCACCACCTGGCTGGCCGGACACCACCGAT
CTGGGCGAGGCGGAGCCATACTGGCGCTGGAGGAGGATGAGGACGAGGAACCAGGGGCGCCGAGGGCC
CCGGGAAGACACGAGGAGGAGCGAACGGAAGATGTGGCTGCCAAGGGGGCGGAGGTGATGAAAGAC
GGTGGTCACTCCTGGCCCGCGGGCAGCATGACGGGCGCGCGCATCCAGAGGGAGGGCCTGATGCGC
GTGTACGTAGCTCAGCTGGTGGTTAGGGCGCCTTCGAGGTGGCCTTCTGGTGGCCAGTACCTACTGT
ATGGCTTCGAGGTGCGCCCTTCTTGGCTGCAGCCGCCAGCCTTGCCACACGTAGTGGACTGCTTCGT
GTCGCGGCAACCGAGAAGACTGCTTCTTGTGTTATGTATGTGTTAGCTGCCTATGCCTGTTGCTC
AACCTTTGTAAATGGCACACCTGGGTCTCGGCAGTGCAGGACGCTGTGCGCGCCGTCGGGGAGCCT
CAGCGGCTGGTCTGGTCCCGCGCCGCGCCACCACCCTGCGCTTCCCGGCTGCGGCGCGGGCCTGGC
TTGCCCTCCGACTACAGCCTGGTAGTGCCTGCAGCTGAGCGCGCGAGCGCACGATCAGAACCTGGCG
AACCTGGCACTGCAGGCGCTGCGTATGGGGCGCGGTGGCGCGGTTTCCGCGGATCGCGACAGTCCGC
CGTGTTCAGGGCTCAATGCAACCTCTCGGGACCACCCAGGGCGGGCGGCCAGCTTCCGGAACCGGTAG
CGCCACGTGGGGGTACCGTTGGAGAGCAGGGCAGTTCGGGAGCTCAGGAACAGCTCGCCACTAAGCCC
AGGGTTGGCTCTGAGAAGGGCAGTACAGGCAGCAGAGACGGCAAGGCCACCGTGTGGATC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR216679 representing NM_001100784
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MTNMSWSFLTRLLEEIHNHSTFVGKVVLTVLVFRIVLTAVGGESIYSDEQSKFTCNTRQPGCDNVCYDA
 FAPLSHVRFWVFQIVVISTPSVMYLGAVHRLARASEQERRRALRRRPGPRRLPRAQLPPPPGWPDTTD
 LGAEPIALALEEDEDDEEPGAPEGPGEDTEERTEDVAAKGGGGDKTVVTPGPAGQHDGRRRIQREGLMR
 VYVAQLVVRAAFEVAVFLVGQYLLYGFVPPFFACSRQPCPHVVDVCFVSRPTEKTVFLLVMYVVSCLCLLL
 NLCEMAHLGLGSAQDAVRGRRGASAAGPGPAPRPPPCAFPAAGLACPPDYSLVVRAAERARAHQNLA
 NLALQALRDGAAVAASADRDSPPCSGLNATSRGPPRAGGPASGTGSATSGGTVGEQGRSGAQEQLATKP
 RVGSEKSTGSRDGKATVWI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

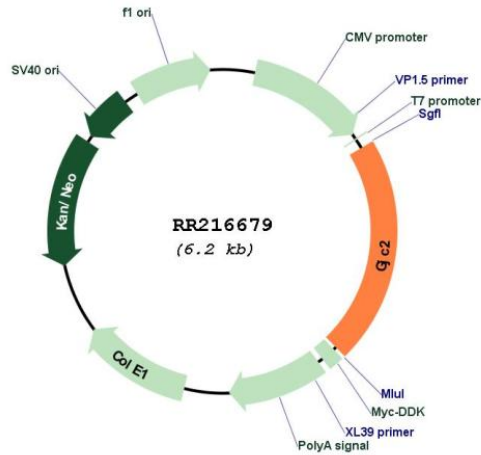
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001100784

ORF Size:	1320 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:	<ol style="list-style-type: none">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_001100784.1 , NP_001094254.1
RefSeq Size:	2081 bp
RefSeq ORF:	1323 bp
Locus ID:	497913
UniProt ID:	Q80XF7
Cytogenetics:	10q22
MW:	47 kDa
Gene Summary:	One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell. May play a role in myelination in central and peripheral nervous systems (By similarity). [UniProtKB/Swiss-Prot Function]