

## Product datasheet for **RR210107**

### Gjc1 (NM\_001085381) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gjc1 (NM_001085381) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gjc1
Synonyms:	Cx45; Gja7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210107 representing NM_001085381 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGTTGGAGCTTCCTGACTCGCCTGCTAGAGGAGATACACAACCATTCGACGTTTGTAGGAAGATCT  
GGCTCACTGTGCTGATTGTCTTTTCGAATTGTCCTAACTGCGGTAGGAGGAGAGTCCATCTACTATGATGA  
GCAAAGCAAATTTGTGTGCAACACAGAGCAGCCGGCTGTGAGAACGTCTGCTATGATGCCTTTGCCCG  
CTCTCCACGTGCGCTTCTGGGTATTCCAGATCATCCTGGTTGCTACTCCCTCGGTGATGTACCTGGGAT  
ATGCTATTCACAAGATTGCCAAAATGGAGCACGGCAGGAGCAGACAAGAAGGCAGCTCGGAGCAAACCTA  
TGCCATGCGTTGGAAGCAGCACCGGGCTCTGGAAGAAACGGAAGAGGACCATGAAGAGGATCCTATGATG  
TACCCAGAGATGGAGTTAGAAAGCGAGAAAGAAAATAAAGAGCAGAGCCAACCAAAACCAAGCATGATG  
GCCGCCGACGCATTCGTGAGGATGGGCTCATGAAAATCTATGTGTTGCAGCTGTAGCCAGGACTGTGTT  
TGAGGTGGGCTTCTCATAGGGCAGTATTTCTGTATGGCTTCCAAGTACACCCATTTTATGTGTGCAGC  
AGACTTCCTTGTCTCATAAGATAGACTGCTTTATTTCTAGACCCACTGAAAAGACCATCTCCTCTGTA  
TAATGTATGGTGTACAGGCCTCTGCCTATTGCTTAACATTTGGGAGATGCTTTCATAGGTTTGGGAG  
CATTTCGAGACTCACTAAACAGTAAAAGGAGGAACTTGATGATCCGGGTGCTTATAATTATCCTTTCACT  
TGAATACACCATCTGCTCCCCAGGCTATAACATTGCTGTCAAACAGATCAAATCCAGTACACTGAGT  
TGTCCAATGCTAAGATTGCCTACAAGCAGAAACAAAGCCAATATCGCCAGGAGCAGCAGTATGGCAGCCA  
CGAGGAGCACCTCCCGCCGATCTGGAGACCCTGCAGCGGGAGATCAGAAATGGCCAGGAACGCTTGGAT  
CTAGCAATCCAGGCTACCATCACCAGAAACACCCCATGGTCTCGGAAAAGAAGGCCAAAGTGGGGT  
CCAAATCTGGTCCAACAAAAGCAGTATTAGTAGCAAATCAGGAGATGGGAAGACCTCCGCTGGATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR210107 representing NM\_001085381  
 Red=Cloning site Green=Tags(s)

MSWSFLTRLLEEIHNHSTFVGKIWLTVLIVFRIVLTAVGGESIYYDEQSKFVCNTEQPGCENVCYDAFAP  
 LSHVRFWVFQIILVATPSVMYLGAIHKIAKMEHGEADKKAARSKPYAMRWKQHRALEETEEDHEEDPMM  
 YPEMELESEKENKEQSQPKPKHDGRRRIREDGLMKIYVQLLARTVFEVGFLLIGQYFLYGFQVHPFYVCS  
 RLPCKPHKIDCFISRPEKTIIFLLIMYGVTLCLLLNIWEMLHLGFGTIRDLSLNSKRREDDPGAYNYPFT  
 WNTPSAPPGYNI AVKPDQIQYTELSNAKIA YKQNKANIAQEQQYGSHEEHL PADLET LQREIRMAQERLD  
 LAIQAYHHQNNPHGPREKKAKVGSKSGSNKSSISSKSGDGKTSVWI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

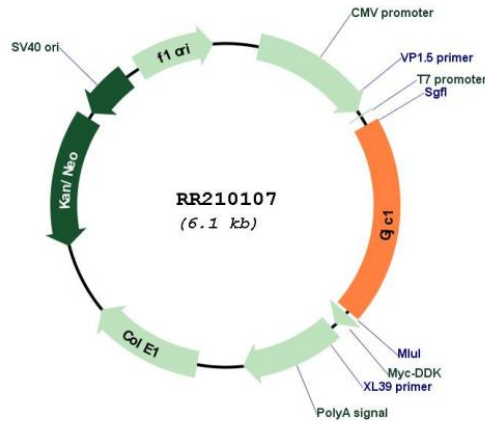
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001085381

<b>ORF Size:</b>	1188 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001085381.1</a> , <a href="#">NP_001078850.1</a>
<b>RefSeq Size:</b>	1599 bp
<b>RefSeq ORF:</b>	1191 bp
<b>Locus ID:</b>	266706
<b>UniProt ID:</b>	<a href="#">A4GG66</a>
<b>Cytogenetics:</b>	10q32.1
<b>MW:</b>	45.7 kDa
<b>Gene Summary:</b>	component of gap junctions; involved in intercellular communication in arterial smooth muscle [RGD, Feb 2006]