

## Product datasheet for **RR202517**

### Gja5 (NM\_019280) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gja5 (NM_019280) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gja5
Synonyms:	Cx40
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR202517 representing NM_019280 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGTGACTGGAGCTTCTGGGGAGTTCCTGGAGGAGTCCACAAGCACTCTACGGTCATCGGCAAGG  
TCTGGCTACCGTCTGTTCATTTCCGCATGCTGGTCTCGGCACCGTCTGAGTCTCTGGGGAGA  
TGAGCAGGCTGATTTCCGGTGTGATACCATTACGCTGGTTGCCAAAATGTCTGCTACGACCAAGCCTTC  
CCCATCTCCACATTCGTTACTGGTACTGCAGATCATCTTTGTGTCCACACCATCTCTGGTGTACATGG  
GCCACGCCATGCACACTGTGCGCATGCAGGAAAAGCAGAAGCTGCGGGAGGCTGAGAAAAGCTAAAGAGGC  
CGGTGGCACCGGCACCTATGAGTACTTGGCGGAGAAAAGCCGAGCTGTCCTGCTGGAAGAGGTGAACGGG  
AAGATTGCTCCAGGGCACCTACTCAACACCTATGTCTGCACCATTCTCATCCGACCGCTATGGAGG  
TGGCCTTCATGGTGGCCAGTACCTCCTCTATGGGATCTTCTGGACACCCTGCATGTCTGCCGAGAAG  
TCCCTGTCCCCACCCGTCAACTGTTATGTCTCGAGGCCACAGAGAAGAAGCTTTCATTGTCTTTATG  
ATGGCTGTGGCTGGACTGTCTGTCTCAGCCTGGCTGAAGTCTACCACCTGGGCTGGAAGAAGATCC  
GACAGCGCTGGCAAGTCACGGCAGGGTGACAAGCACCAGCTTCTTGGCCCTCCACCAGCTGGTCCA  
GGCCTCACTCCTCCTGACTTCAACCAGTGCCTAAAGAAGCCAGATGAGAAATTCCTCAGTGAC  
TTCAGTAATAACATGGGCTCCCGAAGAATCCAGACCCTCTGGCCACTGAGGAAGTGCCAAACCAGGAGC  
AGATCCCGGAGGAAGTTTCATCCACACACAGTATGGCCAGAAGCCGAGCAGCCAGTGGCGCCTCTGC  
AGGCCACCGCTTCTCAGGGCTACCACAGTGACAAGCGCCGCTTAGTAAGGCCAGCAGCAAAGCAAGG  
TCAGATGACCTGTCAGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR202517 representing NM\_019280  
 Red=Cloning site Green=Tags(s)

MGDWSFLGEFLEEVHKHSTVIGKVWLTVLFIFRMLVLGTA AESSWGDEQADFRCDTIQPGCQNVCDQAF  
 PISHIRYWVLQIIFVSTPSLVYMGHAMHTVRMQEKQLREAEKAKEAGGTGTYEYLAEKAEKELSCWKEVNG  
 KIVLQGTLLNTYVCTILIRTAMEVAFMVGQYLLYGFIFDLTHVCCRSPCHPVPVNCVSRPTEKNVFIIVFM  
 MAVAGLSLFLSLAELYHLGWKKIRQRLAKSRQGDQKQLLGPSTSLVQGLTPPPDFNQCLKNSPDEKFFSD  
 FSNMMSRKNPDPLATEEVPNQEQIPEEGFIHTQYQKPEQPSGASAGHRFPQGYHSDKRRLSKASSKAR  
 SDDLVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

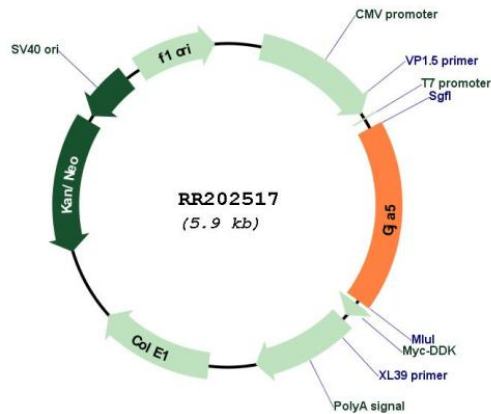
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_019280

<b>ORF Size:</b>	1068 bp
<b>OTI Disclaimer:</b>	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>
<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_019280.1</a> , <a href="#">NP_062153.1</a>
<b>RefSeq Size:</b>	3115 bp
<b>RefSeq ORF:</b>	1071 bp
<b>Locus ID:</b>	50563
<b>UniProt ID:</b>	<a href="#">P28234</a>
<b>Cytogenetics:</b>	2q34
<b>MW:</b>	40.2 kDa
<b>Gene Summary:</b>	forms intercellular connoxin channels in gap junctions; mediates cell-cell communication [RGD, Feb 2006]