

Product datasheet for RR213232

Gja1 (NM_012567) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gja1 (NM_012567) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gja1
Synonyms:	Cx43
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR213232 representing NM_012567 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGACTGGAGTGCCTTGGGAAGCTTCTGGACAAGGTCCAAGCCTACTCCACCGCTGGAGGAAGG
TGTGGCTGTCAGTGCTTTCATATTCAGAATCCTGCTCCTGGGGACAGCTGTTGAGTCAGCTTGGGGTGA
TGAACAGTCTGCCTTTCGCTGTAACACTCAACAACCTGGCTGCGAAAACGTCTGCTATGACAAGTCCTTC
CCCATCTCTCACGTGCGCTTCTGGTCTTCAGATCATATTCGTGTCTGTGCCACCCCTCCTGTACTTGG
CCCATGTGTTCTATGTGATGAGGAAGGAAGAGAAGCTAAACAAGAAAGAAGAGGAGCTCAAAGTGGCCCA
GACTGACGGGGTCAACGTGGAGATGCACCTGAAGCAGATTGAAATCAAGAAGTTCAGTACGGGATTGAA
GAGCACGGCAAGGTGAAAATGAGGGGCGGCTTGTGAGAACCTACATCATCAGCATCCTCTTCAAGTCTG
TCTTCGAGGTGGCCTTCTGCTCATCCAGTGGTACATCTATGGGTTACAGCTTGGAGCGGCTACACCTG
CAAGAGAGATCCCTGCCCCACCAGGTAGACTGCTTCTCCTCACGTCCCACGGAGAAAACCATCTTCATC
ATCTTCATGCTGGTGGTGCCTTGGTGTCTCTCGCTTGAACATCATTGAGCTCTTCTACGTCTTCTTCA
AAGGCGTTAAGGATCGCGTGAAGGAAGAAGCGATCCTTACCACGCCACCACTGGCCACTGAGCCCATC
AAAAGACTGCGGATCTCCAAAATACGCCACTTCAATGGCTGCTCCTACCAACGGCTCCACTCTCGCCT
ATGTCTCCTCCTGGGTACAAGCTGGTACTGGTGACAGAAACAATCCTCGTGGCCTCAATTACAACAAGC
AAGCTAGCGAGCAAAAACCTGGGCGAACTACAGCGCAGAGCAAAAATCGCATGGGGCAGGCCGGAAGCACC
CTCCAACCTCGCACGCCACGCCGTTTCGATTTCCCGACGACAACCAGAATGCCAAAAAAGTTGCTGTGGA
CATGAACTCCAGCCATTAGCCATCGTGGACCAACGACCTTCCAGCAGAGCCAGCAGCCGCGCCAGCAGCA
GGCCTCGGCTGATGACCTGGAGATTGGCTCGGCTGATGACCTGGAGATT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213232 representing NM_012567
Red=Cloning site Green=Tags(s)

MGDWSALGKLLDKVQAYSTAGGKVWLSVLFIFRILLGLTAVESAWGDEQSAFRCNTQQPGCENVCYDKSF
 PISHVRFWVLQIIFVSVPTLLYLAVHFVYMRKEEKLNKKEELKVAQTDGNNVEMHLKQIEIKFKFYGIE
 EHGVKMRGGLLRITYIISILFKSVFEVAFLLIQWYIYGFSLSAVYTKRDPCHQVDCFLSRPTEKTFIF
 IFMLVSVLSLALNIIELFYVFFKGVKDRVKGRSDPYHATTGPLSPSKDCGSPKYAYFNGCSSPTAPLSP
 MSPPGYKLVTDGRNNSCRNKNQASEQNWANYSAEQNRMQAGSTISNSHAQPFDFPDDNQNAKKVAAG
 HELQPLAIVDQRPSSRASSRASSRPRPDDLEIGLGLMTWR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1654_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_012567

ORF Size: 1146 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 Size: 3148 bp

RefSeq ORF: 1149 bp

Locus ID: 24392

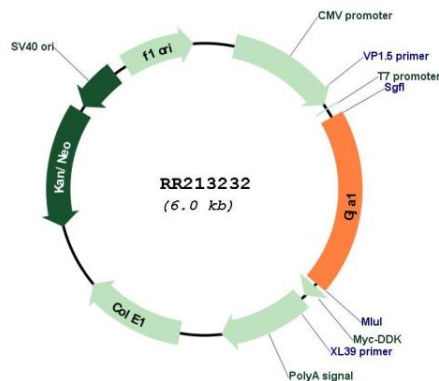
UniProt ID: [P08050](#)

Cytogenetics: 20q11

MW: 43 kDa

Gene Summary: gap junction component; plays a role in cell-cell communication [RGD, Feb 2006]

Product images:



Circular map for RR213232