

Product datasheet for MR205964

Gja1 (NM_010288) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gja1 (NM_010288) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gja1
Synonyms:	AU042049; AW546267; Cnx43; connexin43; Cx43; Cx43alpha1; Gja-1; Npm1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205964 representing NM_010288 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGACTGGAGCGCCTTGGGGAAGCTGCTGGACAAGGTCCAAGCCTACTCCACGGCCGGAGGGAAGG
TGTGGCTGTCGGTGTCTTCATTTTCAGAATCTGCTCCTGGGGACAGCGGTTGAGTCAGCTTGGGGTGA
TGAACAGTCTGCCTTTCGCTGTAACACTCAACAACCCGGTTGTGAAAATGTCTGCTATGACAAGTCTTC
CCCATCTCTCACGTGCGCTTCTGGTCTTCAGATCATATTCGTGTCTGTGCCACACTCCTGTACTTGG
CTCACGTGTTCTATGTGATGAGAAAGGAAGAGAAGCTGAACAAGAAAGAAGAGGAGCTCAAAGTGGCGCA
GACCGACGGGTC AACGTGGAGATGCACCTGAAGCAGATTGAAATCAAGAAGTCAAGTATGGGATTGAA
GAACACGGCAAGGTGAAGATGAGAGGTGGCCTGCTGAGAACCTACATCATCAGCATCCTCTTCAAGTCTG
TCTTCGAGGTGGCCTTCTGCTGATCCAGTGGTACATCTATGGGTTACAGCCTGAGTGCAGTCTACACCTG
CAAGAGAGATCCCTGCCCCACCAGGTGGACTGCTTCTCTCACGTCCCACGGAGAAAACCATCTTCATC
ATCTTCATGCTGGTGGTGTCTTGGTGTCTCTCGCTCTGAATATCATTGAGCTCTTCTATGTCTTCTTCA
AGGGCGTTAAGGATCGCGTGAAGGAAGAAGCGATCCTTACCACGCCACCACGGCCCACTGAGCCCATC
CAAAGACTGCGGATCTCCAAAATATGCTTACTTCAATGGCTGCTCCTCACCAACGGCCCACTCTCACCT
ATGTCTCTCTGGGTACAAGTGGTCACTGGTGACAGAAACAATCCTCTGCCGAATTACAACAAGC
AAGCCAGCGAGCAAAAACCTGGGCGAATTACAGCGCAGAGCAAAAATCGAATGGGGCAGGCCGGAAGCACCAT
CTCCAACCTCCACGCCACGCCGTTTGTATTCCTGACGACAGCCAAAATGCCAAAAAAGTTGCTGTGGA
CACGAACTCCAGCCCTTAGCTATCGTGGATCAGCGACCTTCCAGCAGAGCCAGCAGCCGCCAGCAGCA
GACCTCGGCTGATGACCTGGAGATT

ACGGTACGGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205964 representing NM_010288
 Red=Cloning site Green=Tags(s)

MGDWSALGKLLDKVQAYSTAGGKVWLSVLFIFRILLGLTAVESAWGDEQSAFRCNTQQPGCENVCYDKSF
 PISHVRFWVLQIIFVSVPTLLYLAVHFVYMRKEEKLNKKEELKVAQTDGNNVEMHLKQIEIKKFKYGIE
 EHGVKMRGGLLRTYIISILFKSVFEVAFLLIQWYIYGFSLSAVYTKRDPCHQVDCFLSRPTEKTIFI
 IFMLVSVSLALNIIELFYVFFKGVKDRVKGRSDPYHATTGPLSPSKDCGSPKYAYFNGCSSPTAPLSP
 MSPPGYKLVTDGRNNSCRNRYKQASEQNWANYSAEQNRMGQAGSTISNSHAQPFDFPDDSQNAKKVAAG
 HELQPLAIVDQRPSSRASSRASSRPRPDDLEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010288

ORF Size: 1146 bp

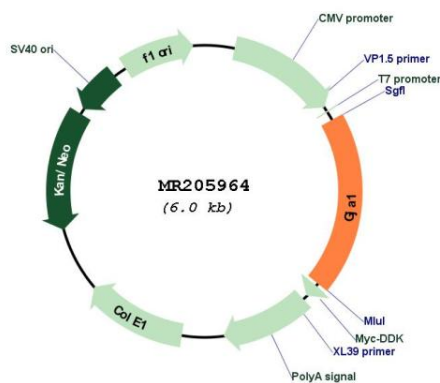
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_010288.3</u>
RefSeq Size:	3071 bp
RefSeq ORF:	1149 bp
Locus ID:	14609
UniProt ID:	<u>P23242</u>
Cytogenetics:	10 28.64 cM
MW:	43.5 kDa
Gene Summary:	Gap junction protein that acts as a regulator of bladder capacity. A 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. Negative regulator of bladder functional capacity: acts by enhancing intercellular electrical and chemical transmission, thus sensitizing bladder muscles to cholinergic neural stimuli and causing them to contract. May play a role in cell growth inhibition through the regulation of NOV expression and localization (PubMed:15181016). Plays an essential role in gap junction communication in the ventricles (PubMed:26403541).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205964