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Product datasheet for MC205621

Gja1 (NM_010288) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gja1 (NM_010288) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gja1
Synonyms:	AU042049; AW546267; Cnx43; connexin43; Cx43; Cx43alpha1; Gja-1; Npm1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

Fully Sequenced ORF:

>BC006894
CAGCACTTTTCTTTCATTGGGGGAAAGGCGTGAGGGAAGTACCCAACAGCAGCAGACTTTGAAACTTTAA
ACAGACAGGTCTGAGAGCCCGAACTCTCCTTTTCCTTTGACTTCAGCCTCCAAGGAGTTCCACCACTTTG
GCGTGCCGGCTTCACTTTCATTAAGTGAAAGAGAGGTGCCCAGACATGGGTGACTGGAGCGCCTTGGGGA
AGCTGCTGGACAAGGTCCAAGCCTACTCCACGGCCGGAGGGAAGGTGTGGCTGTCGGTGCTCTTCATTTT
CAGAATCCTGCTCCTGGGGACAGCGGTTGAGTCAGCTTGGGGTGATGAACAGTCTGCCTTTCGCTGTAAC
ACTCAACAACCCGGTTGTGAAAATGTCTGCTATGACAAGTCCTTCCCCATCTCTCACGTGCGCTTCTGGG
TCCTTCAGATCATATTCGTGTCTGTGCCCACACTCCTGTACTTGGCTCACGTGTTCTATGTGATGAGAAA
GGAAGAGAAGCTGAACAAGAAAGAAGAGGAGCTCAAAGTGGCGCAGACCGACGGGGTCAACGTGGAGATG
CACCTGAAGCAGATTGAAATCAAGAAGTTCAAGTATGGGATTGAAGAACACGGCAAGGTGAAGATGAGAG
GTGGCCTGCTGAGAACCTACATCATCAGCATCCTCTTCAAGTCTGTCTTCGAGGTGGCCTTCCTGCTGAT
CCAGTGGTACATCTATGGGTTCAGCCTGAGTGCGGTCTACACCTGCAAGAGAGATCCCTGCCCCCACCAG
GTGGACTGCTTCCTCTCACGTCCCACGGAGAAAACCATCTTCATCATCTTCATGCTGGTGGTGTCCTTGG
TGTCTCTCGCTCTGAATATCATTGAGCTCTTCTATGTCTTCTTCAAGGGCGTTAAGGATCGCGTGAAGGG
AAGAAGCGATCCTTACCACGCCACCACCGGCCCACTGAGCCCATCCAAAGACTGCGGATCTCCAAAATAT
GCTTACTTCAATGGCTGCTCCTCACCAACGGCCCCACTCTCACCTATGTCTCCTCCTGGGTACAAGCTGG
TCACTGGTGACAGAAACAATTCCTCCTGCCGCAATTACAACAAGCAAGCCAGCGAGCAAAACTGGGCGAA
TTACAGCGCAGAGCAAAATCGAATGGGGCAGGCCGGAAGCACCATCTCCAACTCCCACGCCCAGCCGTTT
GATTTCCCTGACGACAGCCAAAATGCCAAAAAAGTTGCTGCTGGACACGAACTCCAGCCCTTAGCTATCG
TGGATCAGCGACCTTCCAGCAGAGCCAGCAGCCGCGCCAGCAGCAGACCTCGGCCTGATGACCTGGAGAT
TTAAACAGGCTTGAACATCAAGCTGCCAATCGATTGTGGAGGAGAAAAAAAAGGGTGCTTGCAGAACGTG
CACCTGGGGTGTTCATTTCGTTCCCGTGGAGGTGGTACTCAACAACCTCAGTAATGAGGCGTAGAAAACA
AAGACATTACAATATCTAGGTTCCTTGGGGGGTGTTTTGGGATAGCTAGGCGGCAAAAGTAGGGAAAGGG
GAGGTATGTAACGGTATTTAATGTAGAAGATTCAAAGAGCTTAAATTCTAGTAAGAGTCTCATTGGATGA
AACATAGATAGGGCTTTCTCTCTCTGCCCCCCAACTGAACCTTAAGAATGGTTCTGTATACATGAGTGAG
TGGGTGATATATATTTTTTTTAATTTTTGTTTTACTGAGATTCTGCCATAGAGCTTTGAGCAGGAATCCA
AGTCCTCAACATGGCATTTCCTTTATGAAAAGACAGGTTGTCCTACATCCCCGCTAAAAAACATTCCAGT
GTTTAAAAACTTGGCAGTTTGCAGGCGAGCTTCCCTGGCCTGACCCTCTAGGTGTGGATGGACCTTATGC
TACTATACACGATTTTCATTCTTGGTAGGTATCAATTCGAAGTTCAGACAAGGTTCAAAGAAAAAGATTG
CCCATGTATTTGCATCTCAGTGGGTTCTTTTTCAAATCTGTCCCACCTTTGTGTCTTCCATATATTATCC
TCAGCTGGTCCTCACCCTCACCAAATGATTTCTATCGACATTTTTAAAACAGTGAGAAAGTCTTTTTTTT
TTTTTTTTGAGTTAGCATCAGGGAGGCAAGCCATGCTCAATATTTAACAATCGCTTCTGTCTATGTGTGG
GTGTGCAAGTGTGTAAGCGTGTGTTTTGTCATTATTGGTACAAGCAGAGGCAGTATAAACTCACAGATTT
GAATCGAATTCACACAGTGTTCAAATTTGAACCTTCCTCATGGATCTTTGTGGTGTGGGCCAACGTGGTG
TTTACATTATAGAATTCCTGCCGTGCAAAAGTGTAAAGCACACACTTTTTCCCTAAAATATTTTTTCCAC
GTATCCTATTATGGATACTGGTTTTGTTAATTATGATTTTTTTTTCTTTTTTAGAATGTAGCAGTAATAG
CCATTACTGAAATGAATGATTTCCTTTTTCTGAAATATAATCATTGATGCTTGAATGATAGAATTTTAGT
ACTGTAAACAGGCTTTAGTCATTAATGTGAGAGACTTAGAAGAGGGTTGCTTAGAGTGGACTATCAAGTG
AGCCTAAAGGAACTTTGTAGTAACTGGTAATCTGGTAATTTTTGTCCTACTTAACTACACATTAACTCAG
AACTTGTATTCTGAGTTTAACAGTCTTTTAGATTGACGAGCAACTTGGATGTTTGCACTAAGATTTTCTT
TGAGATACTAGAGGGGGTGAAGGAGTTTTCAGCAGTGCACATGTAACTAATTTATTTGAACTGTAAGCTA
AAGACACCTACCAGTTTCTTCAAGTGACTTAAAAAAACTCATCACAGATGATTGAAATGTCGAGTTATCA
TGTTTCCTCTTGCGCGCCAGCTACACAAGGAGTTTTTGGACAATGAGAAACTAATTTGTTTGACATTCCA
TGTTAAACTACTGTCATGTTCAGCTTCATTGCATGTAATGTAGACCTAGCCCATCCAATCAATGTGCTCG
GGAAAGTGTTCTTTATTCAATAAAATTTTAATTTAGTATAATAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_010288

Insert Size: 1149 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
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:	BC006894, AAH06894
RefSeq Size:	3071 bp
RefSeq ORF:	1149 bp
Locus ID:	14609
UniProt ID:	P23242
Cytogenetics:	10 28.64 cM
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]