

Product datasheet for **MR226893**

Gja3 (NM_016975) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gja3 (NM_016975) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gja3
Synonyms:	Cnx46; Cx43; Cx46; Gja-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226893 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGACTGGAGCTTCTGGGGCGGCTGCTGGAGAACGCACAGGAGCACTCTACAGTCATCGGCAAAG
TGTGGCTGACCGTGTTCATCTTCCGCATTCTGGTGTAGGGGCGGCAGCCGAGGAGGTGTGGGCGA
CGAGCAATCGGACTTCACCTGCAACACACAGCAGCCAGGCTGTGAGAACGTCTGTACGACCGCGCTTTC
CCCATTTGCGACATCCGCTTCTGGGCGCTGCAAATCATCTTCGTGTCTACGCCACCCCTCATCTATCTGG
GCCACGTGCTACACATCGTGCATGGAGGAGAAGAAGAAGAGCGGGAGGAAGAGCTGCTGAGGAGAGA
CAACCCTCAGCACGGCCGTGGTTCGCGAGCAATGCGTACAGGGAGCCCGGGGACCTCCACTACCGCAT
GACCGTGGCAAGGTGCGCATCGCAGGTGCGCTGCTGCGGACCTACGTCTTCAACATCATCTTCAAGACAC
TCTTCAAGTGGGTTTCTCGCGGGCCAGTACTTTCTATACGGCTTCCAGCTGCAGCCACTTTACCGCTG
CGACCGCTGGCCCTGCCCAACTGTGGACTGTTTCTATCTCCAGGCCACAGAGAAGACCATCTTTGTC
ATCTTCATGCTGGCTGTGGCCTGTGCGTCACTGGTACTCAACATGCTGGAGATTTACCACCTGGGCTGGA
AGAAGCTCAAGCAGGGAGTTACTAACCCTTCAACCCAGATGCCTCAGAAGCCAGGCACAAGCCCTTGG
CCCCCTACCCACGGCCACCAGCTCTGGCCCGCCAGCGTCTCCATCGGGTTCACCTTATTACACACAC
CCTGCCTGTCCCACAGTACAGGCAAAGGCCATAGGGTTTCTGGGGCCCCACTATCACAGCAGACTTCA
CAGTGGTGACTCTAAACGATGCTCAAGGCAGAAACCACCGTCAAACTGCAATGGCCACCACCTGAC
GACAGAGCAGAACTGGACCAGGCAAGTGGCAGAGCAGCAGACTCCAGCCAGCAAGCCCTTTCAGCAGCA
TCCAGCCCTGATGGCCGAAGGGGCTCATTGACAGCAGTGGCAGCAGTTACAGGAGAGTGCCTTGGTAG
TGACGCCAGAGGAGGGGAACAGGCTTTGGCCACCACAGTGGAGATGCACTCGCCACCGTTGGTCTCTCT
GGACCCAGGAAGGTCCAGCAAGTCCAGCAACGGACGTGCCAGACCAGGTGACTTGGCCATC

ACGGTACGGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226893 protein sequence
 Red=Cloning site Green=Tags(s)

MGDWSFLGRLLENAQEHSTVIGKVWLTVLFIFRILVLGAAAEVWGDEQSDFTCNTQQPGCENVCYDRAF
 PISHIRFWALQIIFVSTPTLIYLGHVLIHVRMEEKKEREELLRRDNPQHGRGREPMRTGSPRDPPLRD
 DRGKVIAGALLRTYVFNIIFKTLFEVGF IAGQYFLYGFQLQPL YRCDRWPCPNTVDCFISRPTKTI FV
 IFMLAVACASLVNMLEIYHLGWKLLKQGVTNHFNPDASEARHKPLDPLPTATSSGPPSVSIGFPPYYTH
 PACPTVQAKAIGFPGAPLSPADFVVTLLNDAQGRNHPVKHCNGHLLTTEQNWTRQVAEQQTPASKPSSAA
 SSPDGRKGLIDSSGSSLQESALVVTPEEGEQALATTVMHSPPLVLLDPGRSSKSSNGRARPGDLAI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_016975

ORF Size: 1254 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: [NM_016975.3](#), [NP_058671.2](#)

RefSeq Size: 2696 bp

RefSeq ORF: 1254 bp

Locus ID: 14611

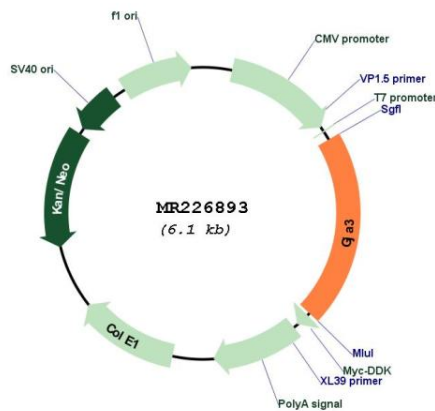
UniProt ID: [Q64448](#)

Cytogenetics: 14 29.82 cM

MW: 46.3 kDa

Gene Summary: Structural component of lens fiber gap junctions. Gap junctions are dodecameric channels that connect the cytoplasm of adjoining cells. They are formed by the docking of two hexameric hemichannels, one from each cell membrane. Small molecules and ions diffuse from one cell to a neighboring cell via the central pore.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226893