

Product datasheet for **MG226893**

Gja3 (NM_016975) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gja3 (NM_016975) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gja3
Synonyms:	Cnx46; Cx43; Cx46; Gja-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226893 representing NM_016975 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGACTGGAGCTTCTGGGGCGGCTGCTGGAGAACGCACAGGAGCACTCTACAGTCATCGGCAAAG
TGTGGCTGACCGTGTTCATCTTCCGCATTCTGGTGTAGGGGCGGCAGCCGAGGAGGTGTGGGGCGA
CGAGCAATCGGACTTCACCTGCAACACACAGCAGCCAGGCTGTGAGAACGTCTGTACGACCGCGCTTTC
CCCATTTCGCACATCCGCTTCTGGGCGCTGCAAATCATCTTCGTGTCTACGCCACCCCTCATCTATCTGG
GCCACGTGCTACACATCGTGCATGGAGGAGAAGAAGAAGAGCGGGAGGAAGAGCTGCTGAGGAGAGA
CAACCCTCAGCACGGCCGTGGTTCGCGAGCCAATGCGTACAGGGAGCCCGGGGACCTCCACTACCGCAT
GACCGTGGCAAGGTGCGCATCGCAGGTGCGCTGCTGCGGACCTACGTCTTCAACATCATCTTCAAGACAC
TCTTCAAGTGGGTTTCAATCGCGGGCCAGTACTTTCTATACGGCTTCCAGCTGCAGCCACTTTACCGCTG
CGACCGCTGGCCCTGCCCAACTGTGGACTGTTTCACTCCAGGCCACAGAGAAGACCATCTTTGTC
ATCTTCATGCTGGCTGTGGCCTGTGCGTCACTGGTACTCAACATGCTGGAGATTTACCACCTGGGCTGGA
AGAAGCTCAAGCAGGGAGTTACTAACCCTTCAACCCAGATGCCTCAGAAGCCAGGCACAAGCCCTTGG
CCCCCTACCCACGGCCACCAGCTCTGGCCCGCCAGCGTCTCCATCGGGTTCACCTTATTACACACAC
CCTGCCTGCCACAGTACAGGCAAAGGCCATAGGGTTTCTGGGGCCCACTATCACCAGCAGACTTCA
CAGTGGTGACTCTAAACGATGCTCAAGGCAGAAACCACCGTCAAACTGCAATGGCCACCACCTGAC
GACAGAGCAGAAGTGGACCAGGCAAGTGGCAGAGCAGCAGACTCCAGCCAGCAAGCCCTTTCAGCAGCA
TCCAGCCCTGATGGCCGCAAGGGGCTCATTGACAGCAGTGGCAGCAGTTACAGGAGAGTGCCTTGGTAG
TGACGCCAGAGGAGGGGAAACAGGCTTTGGCCACCACAGTGGAGATGCACTCGCCACCGTTGGTCTCTCT
GGACCCAGGAAGTCCAGCAAGTCCAGCAACGGACGTGCCAGACCAGGTGACTTGGCCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226893 representing NM_016975
 Red=Cloning site Green=Tags(s)

MGDWSFLGRLLENAQEHSTVIGKVWLTVLFIFRILVLGAAAEVWGDEQSDFTCNTQQPGCENVCYDRAF
 PISHIRFWALQIIFVSTPTLIYLGHVLIHVRMEEKKEREELLRRDNPQHGRGREPMRTGSPRDPPLRD
 DRGKVIAGALLRTYVFNIIFKTLFEVGF IAGQYFLYGFQLQPL YRCDRWPCPNTVDCFISRPTKTI FV
 IFMLAVACASLVLNMLEIYHLGWKKLKQGVTNHFNPDASEARHKPLDPLPTATSSGPPSVSIGFPPYYTH
 PACPTVQAKAIGFPGAPLSPADFVVTNLNDAQGRNHPVKHCNGHLLTTEQNWTRQVAEQQTASKPSSAA
 SSPDGRKGLIDSSGSSLQESALVVTPEEGEQALATTVMHSPPLVLLDPGRSSKSSNGRARPGDLAI

TRTRPLE - GFP Tag - V

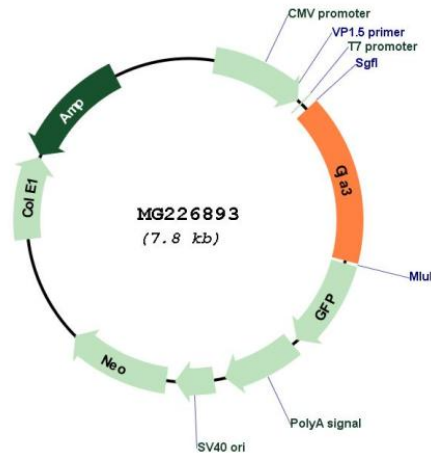
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_016975

ORF Size:	1251 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:	<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:	NM_016975.3 , NP_058671.2
RefSeq Size:	1411 bp
RefSeq ORF:	1254 bp
Locus ID:	14611
UniProt ID:	Q64448
Cytogenetics:	14 29.82 cM
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]