

Product datasheet for **RR212251**

Gja3 (NM_024376) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Gja3 (NM_024376) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Gja3
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR212251 representing NM_024376
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCGACTGGAGCTTCTCTGGGGCGGCTGCTGGAGAATGCGCAGGAGCACTCTACAGTCATCGGCAAGG
 TGTGGCTGACCGTCTCTGTTTCATCTTCCGCATTCTGGTGTGGGGCGGCAGCCGAGGAGGTGTGGGGTGA
 TGAGCAGTCGGACTTCACCTGCAACACACAGCAGCCAGGCTGTGAGAACGTCTGCTACGACCGTGCCTTC
 CCCATCTCGCACATTGCTTCTGGGCGCTGCAAAATCATCTTCGTGTCCAGCCACCCCTCATCTATCTGG
 GCCACGTGCTGCACATCGTGCATGGAGGAGAAGAAGAAAGAGCGGGAGGAGGAGCTGCTGAGGAGAGA
 CAACCCTCAGCACGGCCGTGGTCCGGAACCAATGCGTACAGGGAGCCCGGGACCCGCCACTGCGCGAT
 GACCGTGGCAAGGTGCGNATCGCAGGCGCGCTGCTGCGGACCTACGTCTTCAACATCATCTTCAAGACGC
 TCTTGAAGTGGGTTTCATCGCGGGCCAGTACTTTCTATATGGCTTCCAGCTGCAGCCGCTTTACCGCTG
 CGACCGCTGGCCCTGCCCAACACCGTGGACTGCTTCACTCCAGGCCACGGAGAAGACCATCTTTGTT
 ATCTTCATGTTGGCTGTGGCCTGTGCGTCACTGGTGTCAACATGCTAGAGATTTACCACCTGGGCTGGA
 AGAAGCTCAAGCAGGGAGTTACCAACCACTTCAACCAGATGCCTCAGAAGTCAGGCACAAGCCCTTGGA
 CCCCTATCCGAGGCCGCAACTCTGGCCCTCCAGCGTCTCCATTGGGTTGCCACCTTATTACACACAC
 CCTGCCTGTCCCACAGTACAGGAAAGGCCACAGGGTTTCTGGGGCCCCACTGCTACCAGCAGACTTCA
 CAGTGGTGACCTAAACGATGCGCAAGGCAGAGGCCACCCGGTCAAGCACTGCAATGGCCACCACCTGAC
 GACAGAGCAGAAGTGGGCCAGCCTAGGGGCAGAGCCGAGACTCCAGCCAGCAAGCCCTTTCAGCAGCC
 TCCAGCCCTCATGGCCGAAGGGCTCACTGACAGCAGTGGCAGCAGCTTAGAGGAGAGTGCCTTGGTGG
 TGACACCAGAGGGAGAGCAGGCTTTGGCGACCACAGTGGAGATGCACTCCCACCGTTGGTCTCTCTGGA
 CCCAGAAAGTCCAGCAAGTCCAGCAGCGGACGAGCCAGACCAGGTGACTTGCCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR212251 representing NM_024376
 Red=Cloning site Green=Tags(s)

MGDWSFLGRLLENAQEHSTVIGKVWLTVLFIFRILVLGAAAEVWGDEQSDFTCNTQQPGCENVCYDRAF
 PISHIRFWALQIIFVSTPTLIYLGHVLIHVRMEEKKEREELLRRDNPQHGRGREPMRTGSPRDPPLRD
 DRGKVXIAGALLRTYVFNIFKTLFEVGF IAGQYFLYGFQLQPL YRCDRWPCPNTVDCFISRPTKIFV
 IFMLAVACASLVLNMLEIYHLGWKKLKQGVTNHFNPDASEVRHKPLDPLSEAANSPPSVSISGLPPYYTH
 PACPTVQKATGFPGAPLLPADFTVVTLNDAQGRGHPVKHCNGHHLTTEQNWASLGAEPQTPASKPSSAA
 SSPHGRKGLTSSSGSSLEESALVVTPEGEQALATTVMHSPPLVLLDPERSSKSSSSGRARPGDLAI

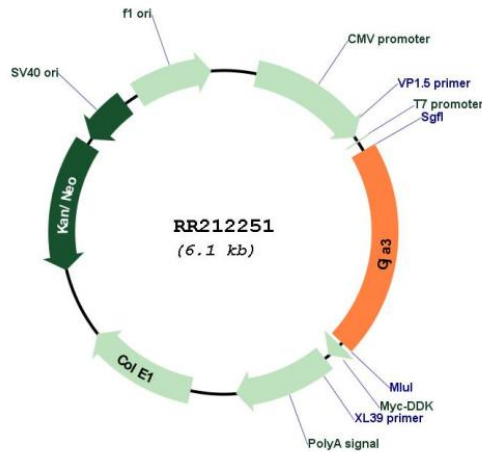
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_024376

ORF Size:	1248 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_024376.2 , NP_077352.1
RefSeq Size:	1590 bp
RefSeq ORF:	1251 bp
Locus ID:	79217
UniProt ID:	P29414
Cytogenetics:	15p12
MW:	46 kDa
Gene Summary:	lens gap junction protein; oligomerizes into intercellular channels and functions to exchange low molecular weight metabolites and ions between adjacent cells; induces voltage-gated currents in nonjunctional plasma membrane [RGD, Feb 2006]