

Product datasheet for **RC208195**

GJA9 (NM_030772) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJA9 (NM_030772) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GJA9
Synonyms:	CX58; CX59; GJA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208195 representing NM_030772
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGGGGACTGGAATCTCCTTGAGATACTCTGGAGGAAGTTCACATCCACTCCACCATGATTGGAAGA
 TCTGGCTCACCATCCTGTTTCATATTTTCAATGCTTGTCTGGGTAGCAGCTGAAGATGTCTGGAATGA
 TGAGCAGTCTGGCTTCATCTGCAATACAGAACCAACAGGCTGCAGAAATGTATGTACGACCAGGCCTTT
 CCTATCTCCCTCATTAGATACTGGGTTCTGCAGGTGATATTTGTGTCTTCACCATCCCTGGTCTACATGG
 GCCATGCATTGTACCGACTGAGAGTTCTTGAGGAAGAGAGGCAAAGGATGAAAGCTCAGTTAAGAGTAGA
 ACTGGAGGAGGTAGAGTTTGAATGCCTAGGGATCGGAGGAGATTGGAGCAAGAGCTTTGTCAGCTGGAG
 AAAAGGAACTAAATAAGCTCCACTCAGAGGAACCTTGCTTTGCACTTATGTGATACACATTTTCACTC
 GCTCTGTGGTTGAAGTTGGATTGATTGACAGTACCTTTTATATGGATTTCACTTAGAGCCGCTATT
 TAAGTGCCATGGCCACCGTGTCCAAATATAATCGACTGTTTTGTCTCAAGACCAACAGAAAAGACAATA
 TTCTATTATTTATGCAATCTATAGCCACTATTTCACTTTTCTTAAACATTCTTGAAATTTTCCACCTAG
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 GCCCTGATTATAATCTGTTAGTGGAAAAGCAAACACACACTGCAGTGTACCCTAGTTTAAATTCATCCT
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 AGGGCCAGTTCAGAAAGGACAGTCAAGACCTTCTCCTTCAAGGAGATTCTCAATCACTTGACAT
 TCCAAACACTGCTGATTCTTTGGGAGGGCTGTCTTTGAGCCAGGGTTGGTCAGAACCTGTAATAATCCT
 GTTTGTCTCCAAATCACGTAGTGTCCCTAACGAACAATCTATTGGTAGGCGGGTCCACAGATCTTC
 AGATC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208195 representing NM_030772
 Red=Cloning site Green=Tags(s)

MGDWNLLGDTLEEVHISTMIGKIWLITLIFRMLVLGVAAEDVWNEQSGFICNTEQPGCRNVCDQAF
 PISLIRYWVLQVIFVSSPSLVYMGHALYRLRVLEERQRMKAQLRVELEEVEFEMPRDRRRLQELCQLE
 KRKLNKAPLRGTLCTYVIHIFTRSVVEVGFMIQYLLYGFHLEPLFKCHGHPCPNIIDCFVSRPTEKTI
 FLLFMQSIATISLFLNILEIFHLGFKKIKRGLWGKYKLKEHNEFHANKAKQNVAKYQSTSANSKRLPS
 APDYNLLVEKQHTAVYPSLNSSSVFQPNPDNHSVNDEKILDEQETVLSNEISTLSTSCSHFQHISSNN
 NKDTHKIFGKELNGNQLMEKRETEGKDSKRNYYSRGHRSIPGVAIDGENNMRQSPQTVFSLPANCWKP
 WLRATWGSSTEHNRGSPPKGNLKGQFRKGTVRTLPPSQGDSQSLDIPNTADSLGGLSFEPGLVRTCNNP
 VCPPNHVVSLLNNLIGRRVPTDLQI

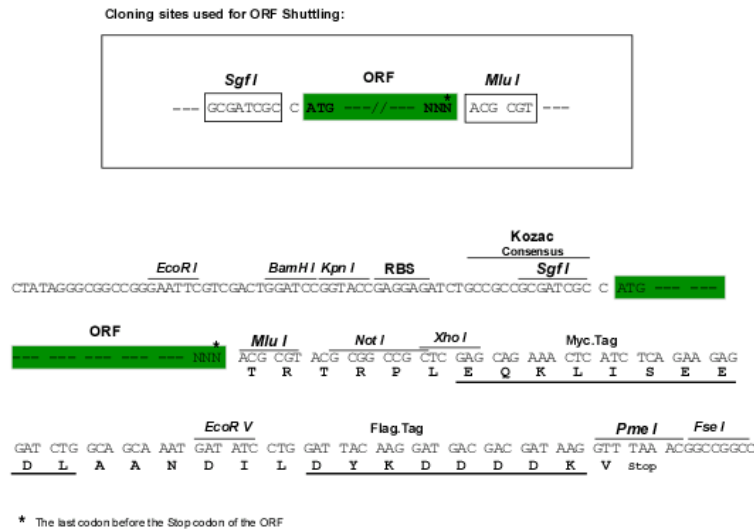
TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6352_g11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_030772

ORF Size: 1545 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_030772.5](#)

RefSeq Size: 2331 bp

RefSeq ORF: 1548 bp

Locus ID: 81025

UniProt ID: [P57773](#)

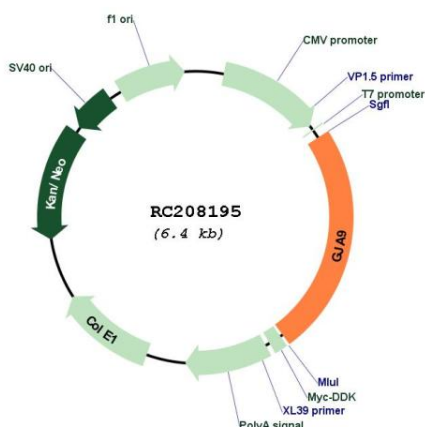
Cytogenetics: 1p34.3

Protein Families: Transmembrane

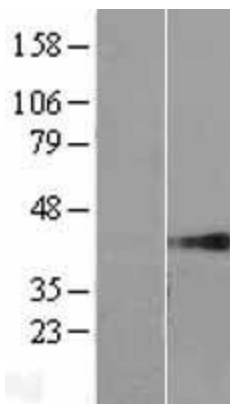
MW: 58.7 kDa

Gene Summary: Connexins, such as GJA9, are involved in the formation of gap junctions, intercellular conduits that directly connect the cytoplasm of contacting cells. Each gap junction channel is formed by docking of 2 hemichannels, each of which contains 6 connexin subunits (Sohl et al., 2003 [PubMed 12881038]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC208195



Western blot validation of overexpression lysate (Cat# [LY410722]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208195 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).