

Datasheet for ABIN4929271

## Human GJA9 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	GJA9
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PEXP)

### Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human GJA9 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1548 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGGGGACT GGAATCTCCT TGGAGATACT CTGGAGGAAG TTCACATCCA CTCCACCATG ATTGAAAGA TCTGGCTCAC CATCCTGTTC ATATTTGAA TGCTTGTCT GGGTGTAGCA GCTGAAGATG TCTGGAATGA TGAGCAGTCT GGCTTCATCT GCAATACAGA ACAACCAGGC TGCAGAAATG TATGCTACGA CCAGGCCTTT CCTATCTCCC TCATTAGATA CTGGGTTCTG CAGGTGATAT TTGTGTCTTC ACCATCCCTG GTCTACATGG GCCATGCATT GTACCGACTG

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## Product Details

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AGAGTTCTTG AGGAAGAGAG GCAAAGGATG AAAGCTCAGT TAAGAGTAGA ACTGGAGGAG  
GTAGAGTTTG AAATGCCTAG GGATCGGAGG AGATTGGAGC AAGAGCTTTG TCAGCTGGAG  
AAAAGGAAAC TAAATAAAGC TCCACTCAGA GGAACCTTGC TTTGCACTTA TGTGATACAC  
ATTTTCACTC GCTCTGTGGT TGAAGTTGGA TTCATGATTG GACAGTACCT TTTATATGGA  
TTTCACTTAG AGCCGCTATT TAAGTGCCAT GGCCACCCGT GTCCAAATAT AATCGACTGT  
TTTGTCTCAA GACCAACAGA AAAGACAATA TTCCTATTAT TTATGCAATC TATAGCCACT  
ATTTCACTTT TCTTAAACAT TCTTGAATTT TTCCACCTAG GTTTTTAAAAA GATTA AAAAGA  
GGGCTTTGGG GAAAATACAA GTTGAAGAAG GAACATAATG AATTCCATGC AAACAAGGCA  
AAACAAAATG TAGCCAAATA CCAGAGCACA TCTGCAAATT CACTGAAGCG ACTCCCTTCT  
GCCCCTGATT ATAATCTGTT AGTGGAAAAG CAAACACACA CTGCAGTGTA CCCTAGTTTA  
AATTCATCTT CTGTATTCCA GCCAAATCCT GACAATCATA GTGTAATGA TGAGAAATGC  
ATTTTGGATG AACAGGAAAC TGTACTTTCT AATGAGATTT CCACACTTAG TACTAGTTGT  
AGTCATTTTC AACACATCAG TTCAAACAAT AACAAAGACA CTCATAAAAT ATTTGGAAAA  
GAACTTAATG GTAACCAGTT AATGGAAAAA AGAGAACTG AAGGCAAAGA CAGCAAAGG  
AACTACTACT CTAGAGGTCA CCGTTCTATT CCAGGTGTTG CTATAGATGG AGAGAACAAC  
ATGAGGCAGT CACCCCAAAC AGTTTTCTCC TTGCCAGCTA ACTGCGATTG GAAACCGCGG  
TGGCTTAGAG CTACATGGGG TTCCTCTACA GAACATGAAA ACCGGGGGTC ACCTCCTAAA  
GGTAACCTCA AGGGCCAGTT CAGAAAGGGC ACAGTCAGAA CCCTTCCTCC TTCACAAGGA  
GATTCTCAAT CACTTGACAT TCCAAACACT GCTGATTCTT TGGGAGGGCT GTCCTTTGAG  
CCAGGGTTGG TCAGAACCTG TAATAATCCT GTTTGTCTC CAAATCACGT AGTGTCCCTA  
ACGAACAATC TCATTGGTAG GCGGGTTCCC ACAGATCTTC AGATCTAA

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Specificity: ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology

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Characteristics: Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.

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Sequencing Primer: 

- Forward primer: 5'-TAATACGACTCACTATAGGG-3'
- Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'

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Grade: End-sequenced

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Components: The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

## Target Details

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Gene: GJA9

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## Target Details

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Alternative Name: GJA9 ([GJA9 Products](#))

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Background: 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].

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Gene ID: 81025

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NCBI Accession: [NM\\_030772](#)

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Storage: RT/-20 °C

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Storage Comment:

- Keep the vial sealed and store at -20°C for long-term storage.
- Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C.
- Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA.
- If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA.
- Close the lid and vortex the vial for 1 minute.
- Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.

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Expiry Date: 12 months

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## Publications

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Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)