

Product datasheet for **RC218171**

GJE1 (GJC3) (NM_181538) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GJE1 (GJC3) (NM_181538) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: GJE1
Synonyms: CX29; CX30.2; CX31.3; GJE1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC218171 representing NM_181538
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTGGCAGGTTCTGCGGGGCTGCTGGCGGAGGAGAGCCGGCGCTCCACCCCGTGGGGCGCCTCT
TGCTTCCCGTGCTCCTGGGATCCGCCTTGCTGCTGGCTGCCAGTGGCCTGGAGTCTATGGTGATGA
GCAGAGTGAATTCGTGTGCACACCCAGCAGCCGGGCTGCAAGGCTGCCTGCTTCGATGCCTTCCACCCC
CTCTCCCCGCTGCGTTTCTGGGTCTTCCAGGTCATCTTGGTGGCTGTACCCAGCGCCTCTATATGGTT
TCACTCTGTATCACGTGATCTGGCACTGGGAATTATCAGGAAAGGGGAAGGAGGAGACCTGATCCA
GGGACGGGAGGGCAACACAGATGTCCCAGGGGCTGGAAGCCTCAGGCTGCTCTGGGCTTATGTGGCTCAG
CTGGGGGCTCGGCTTGTCTGGAGGGGCGACCCCTGGGGTTGCAGTACCACCTGTATGGGTTCCAGATGC
CCAGCTCCTTTGCATGTCGCCGAGAACCTTGCCTTGGTAGTATAACCTGCAATCTGTCCCGCCCTCTGA
GAAGACCATTTTCTAAAGACCATGTTTGGAGTCAGCGGTTTCTGTCTTGTACTTTTTGGAGCTT
GTGCTTCTGGGTTGGGGAGATGGTGGAGGACCTGGAAGCACAATCTTCTCTTCTAAATACTTCTCTAA
CTTCAGAGAGCACCAGAAGACACAAGAAAGCAACCGATAGCCTCCCAGTGGTGGAAACCAAAGAGCAATT
TCAAGAAGCAGTCCAGGAAGAAGCTTAGCCCAGGAAAAACAAAGACCAGTTGGACCCAGAGATGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC218171 representing NM_181538
Red=Cloning site Green=Tags(s)

MGRFLRRLLAEESSRRSTPVGRLLL PVLLGFRLVLLAASGPGVYGDEQSEFVCHTQQPGCKAACFDADFHP
 LSPLRFVWFQVILVAVPSALYMGFTLYHVIHWHWELSGKGKEEETLIQREGNTDVPGAGSLRLLWAYVAQ
 LGARLVLEGAALGLQYHLYGFQMPSSFACRREPCLGSITCNLSRPSEKIFLKTMTFVSGFCLLFTFLEL
 VLLGLGRWRTWKHKSSSSKYFLTSESTRRHKKATDSL PVVETKEQFQEAVPGRSLAQEQRPVGPGRDA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8013_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_181538

ORF Size: 837 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_181538.3](#)

RefSeq Size: 840 bp

RefSeq ORF: 840 bp

Locus ID: 349149

UniProt ID: [Q8NFK1](#)

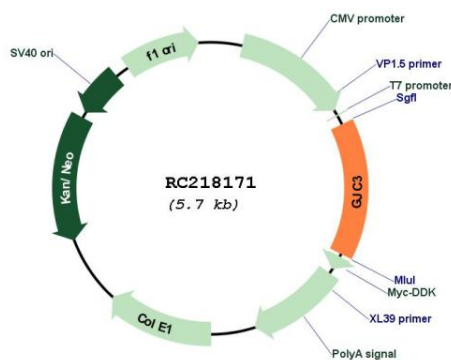
Cytogenetics: 7q22.1

Protein Families: Transmembrane

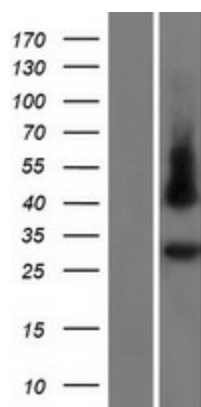
MW: 31.1 kDa

Gene Summary: This gene encodes a gap junction protein. The encoded protein, also known as a connexin, plays a role in formation of gap junctions, which provide direct connections between neighboring cells. Mutations in this gene have been reported to be associated with nonsyndromic hearing loss.[provided by RefSeq, Feb 2010]

Product images:



Circular map for RC218171



Western blot validation of overexpression lysate (Cat# [LY405699]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218171 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).