

## Product datasheet for **RG218171**

### **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:                      | TurboGFP                                                                    |
| Symbol:                   | GJE1                                                                        |
| Synonyms:                 | CX29; CX30.2; CX31.3; GJE1                                                  |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >RG218171 representing NM_181538<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGTGGCAGGTTCTGCGGCGGCTGCTGGCGGAGGAGAGCCGGCGCTCCACCCCGTGGGGCGCCTCT  
TGCTTCCCGTGCTCCTGGGATCCGCCTTGCTGCTGGCTGCCAGTGGGCCTGGAGTCTATGGTGATGA  
GCAGAGTGAATTCGTGTGTACACCCAGCAGCCGGGCTGCAAGGCTGCCTGCTTCGATGCCTTCACCCC  
CTCTCCCGCTGCGTTTCTGGGTCTTCCAGGTCATCTTGGTGGCTGTACCCAGCGCCCTCTATATGGGTT  
TCACTCTGTATCACGTGATCTGGCACTGGGAATTATCAGGAAAGGGGAAGGAGGAGAGACCTGATCCA  
GGGACGGGAGGGCAACACAGATGTCCAGGGGCTGGAAGCCTCAGGCTGCTCTGGGCTTATGTGGCTCAG  
CTGGGGGCTCGGCTTGTCTGGAGGGGCGAGCCCTGGGGTTGCAGTACCACCTGTATGGGTTCCAGATGC  
CCAGCTCCTTTGCATGTCGCCGAGAACCTTGCCTTGGTAGTATAACCTGCAATCTGTCCCGCCCTCTGA  
GAAGACCATTTTCTAAAGACCATGTTTGGAGTCAGCGGTTTCTGTCTTGTCTTACTTTTTGGAGCTT  
GTGCTTCTGGGTTTGGGAGATGGTGGAGGACCTGGAAGCACAAATCTTCTCTTCTAAATACTTCTAA  
CTTCAGAGAGCACCAGAAGACACAAGAAAGCAACCGATAGCCTCCAGTGGTGGAAACCAAGAGCAATT  
TCAAGAAGCAGTTCCAGGAAGAAGCTTAGCCCAGGAAAAACAAAGACCAGTTGGACCCAGAGATGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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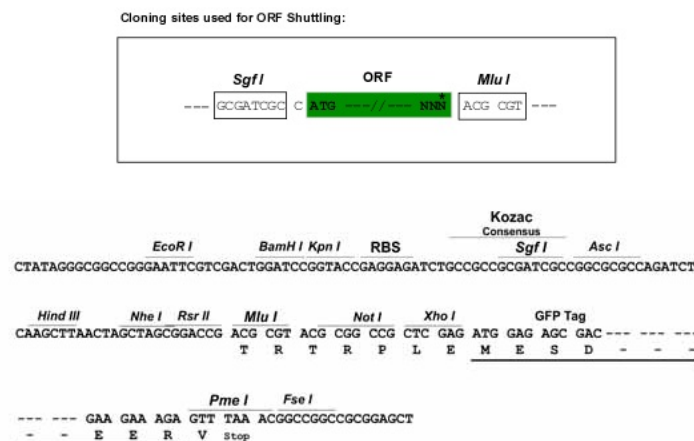
**Protein Sequence:** >RG218171 representing NM\_181538  
 Red=Cloning site Green=Tags(s)

MCGRFLRRLLAESRRSTPVGRLLLPVLLGFRLVLLAASGPGVYGDEQSEFVCHTQQPGCKAACFDAPH  
 LSPLRFWVFQVILVAVPSALYMGFTLYHVIHWWELSGKGKEETLIQGREGNTDVPAGSLRLLWAYVAQ  
 LGARLVLEGAALGLQYHLYGFQMPSSFACRREPCLGSITCNLSRPSEKIFLKTMTFGVSGFCLLFTFLEL  
 VLLGLGRWWRTWKHKSSSSKYFLTSESTRRHKKATDSLPPVETKEQFQEAVPGRSLAQEKQRPVGPRDA

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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.

**RefSeq:** [NM\\_181538.3](#)

**RefSeq Size:** 840 bp

**RefSeq ORF:** 840 bp

**Locus ID:** 349149

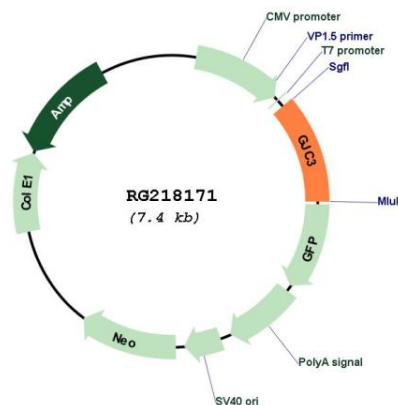
**UniProt ID:** [Q8NFK1](#)

**Cytogenetics:** 7q22.1

**Protein Families:** Transmembrane

**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 RG218171