

Product datasheet for **RG218725**

GJC1 (NM_001080383) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJC1 (NM_001080383) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GJC1
Synonyms:	CX45; GJA7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218725 representing NM_001080383 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTGGAGCTTCCTGACTCGCCTGCTAGAGGAGATTCACAACCATTCCACATTTGTGGGAAGATCT
GGCTCACTGTTCTGATTGTCTCCGGATCGTCCTTACAGCTGTAGGAGGAGAATCCATCTATTACGATGA
GCAAAGCAAATTTGTGTGCAACACAGAACAGCCGGGCTGTGAGAATGTCTGTTATGATGCGTTTGACCT
CTCTCCCATGTACGTTCTGGGTGTTCCAGATCATCCTGGTGGCAACTCCCTCTGTGATGTACCTGGCT
ATGCTATCCACAAGATTGCCAAAATGGAGCAGGTTGAAGCAGACAAGAAGGCAGCTCGGAGCAAGCCCTA
TGCAATGCGCTGGAAACAACACCCGGGCTCTGGAAGAAACGGAGGAGGACAACGAAGAGGATCCTATGATG
TATCCAGAGATGGAGTTAGAAAAGTATAAGGAAAATAAAGAGCAGAGCCAACCCAAAACCTAAGCATGATG
GCCGACGACGGATTCCGGGAAGATGGGCTCATGAAAATCTATGTGCTGCAGTTGCTGGCAAGGACCGTGT
TGAGGTGGGTTTTCTGATAGGGCAGTATTTCTGTATGGCTTCCAAGTCCACCCGTTTTATGTGTGCAGC
AGACTTCTTGTCTCATAAGATAGACTGCTTTATTTCTAGACCCACTGAAAAGACCATCTTCTTCTGA
TAATGTATGGTGTACAGGCCTTTGCCTTGTGCTTAACATTTGGGAGATGCTTCATTTAGGGTTGGGAC
CATTGAGACTCACTAACAGTAAAAGGAGGGAACCTTGAAGATCCGGGTGCTTATAATTATCCTTTCACT
TGAATACACCATCTGCTCCCCGGCTATAACATTGCTGTCAAACAGATCAAATCCAGTACACCGAAC
TGTCCAATGCTAAGATCGCCTACAAGCAAACAAGGCCAACACAGCCAGGAACAGCAGTATGGCAGCCA
TGAGGAGAACCTCCAGCTGACCTGGAGGCTCTGCAGCGGGAGATCAGGATGGCTCAGGAACGCTTGGAT
CTGGCAGTTACAGGCTACAGTCACCAAACAACCCCTCATGGTCCCCGGGAGAAGAAGGCCAAAGTGGGGT
CCAAAGCTGGGTCCAACAAAAGCACTGCCAGTAGCAAATCAGGGGATGGGAAGACCTCCGTCTGGATT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218725 representing NM_001080383
 Red=Cloning site Green=Tags(s)

MSWSFLTRLLEEIHNHSTFVGKIWLTVLIVFRIVLTAVGGESIYYDEQSKFVCNTEQPGCENVCYDAFAP
 LSHVRFWVFQIILVATPSVMYLGAIHKIAKMEHGEADKKAARSKPYAMRWKQHRALTEEDNEEDPMM
 YPEMELESDKENKEQSQPKPKHDGRRRIREDGLMKIYVLQLLARTVFEVGFLLIGQYFLYGFVHPFVYCS
 RLPCHPKIDCFISRPEKTIIFLLIMYGTGLCLLLNIWEMLHLGFGTIRDLSLNSKRRELEDPGAYNYPFT
 WNTPSAPPGYNIAVKPDQIQYTELSNAKIAKQNKANTAQEQQYGSHEENLPADLEALQREIRMAQERLD
 LAVQAYSHQNNPHGPREKKAKVGSKAGSNKSTASSKSGDGKTSVWI

TRTRPLE - GFP Tag - V

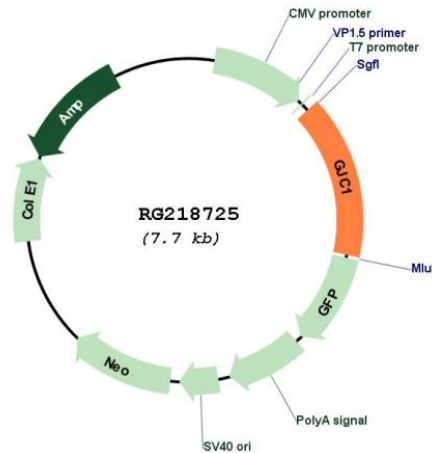
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001080383

ORF Size:	1188 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:	<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_001080383.1 , NP_001073852.1
RefSeq Size:	7640 bp
RefSeq ORF:	1191 bp
Locus ID:	10052
UniProt ID:	P36383
Cytogenetics:	17q21.31
Protein Families:	Ion Channels: Other, Transmembrane
Gene Summary:	This gene is a member of the connexin gene family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. Alternatively spliced transcript variants encoding the same isoform have been described. [provided by RefSeq, Jul 2008]