

Product datasheet for **RG211939**

GJC1 (NM_005497) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJC1 (NM_005497) 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:	>RG211939 representing NM_005497 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTGGAGCTTCCTGACTCGCTGCTAGAGGAGATTCACAACCATTCCACATTTGTGGGAAGATCT
GGCTCACTGTTCTGATTGTCTCCGGATCGTCCTTACAGCTGTAGGAGGAGAATCCATCTATTACGATGA
GCAAAGCAAATTTGTGTGCAACACAGAACAGCCGGGCTGTGAGAATGTCTGTTATGATGCGTTTGCACCT
CTCTCCCATGTACGTTCTGGGTGTTCCAGATCATCCTGGTGGCAACTCCCTCTGTGATGTACCTGGCT
ATGCTATCCACAAGATTGCCAAAATGGAGCACGGTGAAGCAGACAAGAAGGCAGCTCGGAGCAAGCCCTA
TGCAATGCGCTGGAAACAACACCCGGGCTCTGGAAGAAACGGAGGAGGACAACGAAGAGGATCCTATGATG
TATCCAGAGATGGAGTTAGAAAAGTATAAGGAAAATAAAGAGCAGAGCCAACCCAAAACCTAAGCATGATG
GCCGACGACGGATTCCGGGAAGATGGGCTCATGAAAATCTATGTGCTGCAGTTGCTGGCAAGGACCGTGT
TGAGGTGGGTTTTCTGATAGGGCAGTATTTCTGTATGGCTTCCAAGTCCACCCGTTTTATGTGTGCAGC
AGACTTCTTGTCTCATAAGATAGACTGCTTTATTTCTAGACCCACTGAAAAGACCATCTTCTTCTGA
TAATGTATGGTGTACAGGCCTTTGCCTTGTGCTTAACATTTGGGAGATGCTTCATTTAGGGTTTGGGAC
CATTGAGACTCACTAACAGTAAAAGGAGGGAACCTTGAAGATCCGGGTGCTTATAATTATCCTTTCACT
TGAATACACCATCTGCTCCCCCTGGCTATAACATTGCTGTCAAACAGATCAAATCCAGTACACCGAAC
TGTCCAATGCTAAGATCGCCTACAAGCAAAACAAGGCCAACACAGCCAGGAACAGCAGTATGGCAGCCA
TGAGGAGAACCTCCAGCTGACCTGGAGGCTCTGCAGCGGGAGATCAGGATGGCTCAGGAACGCTTGGAT
CTGGCAGTTCAGGCCTACAGTCACCAAAACAACCTCATGGTCCCAGGAGAGAAGAAGGCCAAAGTGGGGT
CCAAAGCTGGGTCCAACAAAAGCACTGCCAGTAGCAAAATCAGGGGATGGGAAGACCTCCGTCTGGATT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211939 representing NM_005497
 Red=Cloning site Green=Tags(s)

MSWSFLTRLLEEIHNHSTFVGKIWLTVLIVFRIVLTAVGGESIYYDEQSKFVCNTEQPGCENVCYDAFAP
 LSHVRFWVFQIILVATPSVMYLGAIHKIAKMEHGEADKKAARSKPYAMRWKQHRALTEEDNEEDPMM
 YPEMELESDKENKEQSQPKPKHDGRRRIREDGLMKIYVLQLLARTVFEVGFLLIGQYFLYGFVHPFYVCS
 RLPCHPKIDCFISRPTKTIIFLLIMYGVTLCLLLNIWEMLHLGFGTIRDSLNSKRRELEDPGAYNYPFT
 WNTPSAPPGYNIAYKPDQIQYTELSNAKIAYKQNKANTAQEQQYGSHEENLPADLEALQREIRMAQERLD
 LAVQAYSHQNNPHGPREKKAKVGSKAGSNKSTASSKSGDGKTSVWI

TRTRPLE - GFP Tag - V

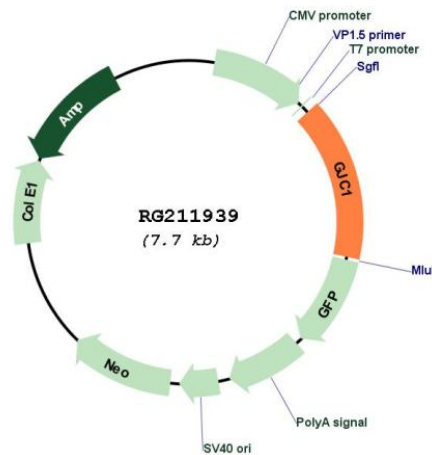
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_005497

ORF Size:	1188 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_005497.4
RefSeq Size:	1889 bp
RefSeq ORF:	1191 bp
Locus ID:	10052
UniProt ID:	P36383
Cytogenetics:	17q21.31
Domains:	CNX
Protein Families:	Ion Channels: Other, Transmembrane
Gene Summary:	<p>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]</p>