

Product datasheet for **MG220957**

Gjc1 (NM_001159383) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gjc1 (NM_001159383) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gjc1
Synonyms:	C130009G16Rik; Cnx45; Cx45; Gja-7; Gja7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220957 representing NM_001159383 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTGGAGCTTCTGACTCGCTGCTAGAGGAGATCCACAACCATTGACATTTGTAGGAAGATCT
GGCTCACTGTGCTGATTGTCTTTTCAATTGCTCACTAAGTGTAGGAGGAGAGTCCATCTACTATGATGA
ACAAAGCAAATTTGTGTGCAACACAGAGCAGCCGGGCTGTGAGAATGTCTGCTATGATGCCTTTGCCCG
CTCTCCACGTGCGCTTCTGGGTATTCCAGATCATCCTGGTTGCAACTCCCTCTGTGATGTACCTGGGAT
ATGCTATTCATAAGATTGCCAAAATGGAGCATGGCGAGGCAGACAAGAAGGCAGCTCGGAGCAAACCTA
TGCCATGCGTTGGAAACAGCACCCGGGCTCTGGAAGAAACGGAAGAGGACCATGAAGAGGATCCTATGATG
TATCCAGAGATGGAGTTAGAAAGCGAAAAAGAAAATAAAGAGCAGAGCCAACCAAAACCTAAGCATGATG
GCCGACGACGAATTCGAGAGGATGGGCTCATGAAAATCTATGTGTTGCAGCTGCTGGCCAGGACTGTGTT
TGAGGTGGGCTTTCTAATAGGGCAGTATTTCTGTATGGCTTCCAAGTCCACCCATTTTATGTGTGCAGC
AGACTTCTTGCCTCATAAGATAGACTGCTTTATTTCTAGACCCACTGAAAAGACCATCTTCTTCTGA
TAATGTATGGTGTACAGGCCTCTGCCTATTGCTTAACATTTGGGAGATGCTTCACTTAGGGTTGGGAC
AATTCGAGACTCACTAACAGTAAAAGGAGGGAACCTTGATGATCCGGGTGCTTATAATTATCCTTCACT
TGAACACACCCCTCTGCTCCCCCTGGCTATAACATTGCTGTCAAACCAGATCAGATCCAGTACACTGAGC
TGTCGAATGCTAAGATTGCCTACAAGCAAAAACAAGCCAATATTGCCAGGAACAGCAGTACGGCAGCCA
CGAGGAACACCTCCCGGCTGATCTGGAGACTCTGCAGCGGGAGATCAGAATGGCTCAGGAACGCTTGGAC
CTAGCAATCCAGGCCTACCATCACAAAACAACCCCATGGTCCTCGGAAAAGAAGGCCAAAGTGGGGT
CCAATCTGGGTCCAACAAAAGCAGTATTAGTAGCAAAATCAGGGGATGGGAAGACCTCCGTCTGGATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220957 representing NM_001159383
Red=Cloning site Green=Tags(s)

MSWSFLTRLLEEIHNHSTFVGKIWLTVLIVFRIVLTAVGGESIYYDEQSKFVCNTEQPGCENVCYDAFAP
 LSHVRFWVFQIILVATPSVMYLGAIHKIAKMEHGEADKKAARSKPYAMRWKQHRALTEEDHEEDPMM
 YPEMELESEKENEQSQPKPKHDGRRRIREDGLMKIYVLQLLARTVFEVGFLLIGQYFLYGFVHPFYVCS
 RLPCKPHKIDCFISRPTKTIIFLLIMYGVTLCLLLNIWEMLHLGFGTIRDLSLNSKRRELDGPGAYNYPFT
 WNTPSAPPYNIAYKPDQIQYTELSNAKIAKQNKANIAQEQQYGSHEEHLPADLETLQREIRMAQERLD
 LAIQAYHHQNNPHGPREKKAKVGSKSGSNKSSISSKSGDGKTSVWI

TRTRPLE - GFP Tag - V

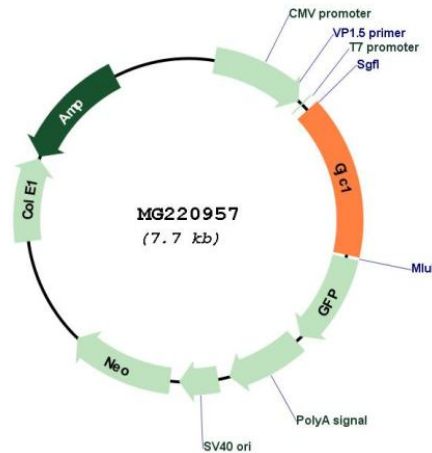
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001159383

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_001159383.1 , NP_001152855.1
RefSeq Size:	1977 bp
RefSeq ORF:	1191 bp
Locus ID:	14615
UniProt ID:	P28229
Cytogenetics:	11 E1
Gene Summary:	One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell.[UniProtKB/Swiss-Prot Function]