

Product datasheet for **RG212089**

GJA10 (NM_032602) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	GJA10
Synonyms:	CX62
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG212089 representing NM_032602
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGGACTGGAACCTATTGGGTGGCATCCTAGAGGAAGTTCACCTCCCACTCAACCATAGTGGGAAAA
 TCTGGCTGACCATCCTCTTCATCTCCGAATGCTGGTACTTCGTGTGGCTGCTGAGGATGTCTGGGATGA
 TGAACAGTCAGCATTTCGCTGCAACACCCGGCAGCCAGGTTGCAACAATATCTGTTATGATGATGCATT
 CCTATCTCTTTGATCAGGTTCTGGGTTTTACAGATCATCTTTGTGTCTTCTCTTCTTTGGTCTATATGG
 GCCATGCACCTTTATAGGCTCAGGGCCTTTGAGAAAGACAGGCAGAGGAAAAAGTCACACCTTAGAGCCCA
 GATGGAGAATCCAGATCTTGACTTGGAGGAGCAGCAAGAATAGATAGGGAACGAGGAGGTTAGAGGAG
 CAGAAGAGGATCCATAAAGTCCTCTGAAAGGATGTCTGCTGCGTACTTATGTCTTACACATCTTGACCA
 GATCTGTGCTGGAAGTAGGATTCATGATAGGCAATATATTCTCTATGGGTTTCAAATGCACCCCTTTA
 CAAATGCACCTCAACCTCCTTGCCCAATGCGGTGGATTGCTTTGTATCCAGGCCCACTGAGAAGACAATT
 TTCATGCTTTTTATGCACAGCATTGCAGCCATTTCTTGTTACTCAATATACTGGAATATTTTCATCTAG
 GCATCAGAAAAATTATGAGGACACTTTATAAGAAATCCAGCAGTGAGGGCATTGAGGATGAAACAGGCC
 TCCATTCCATTGAAGAAATATTCTGTGGCCAGCAGTGATGATTGCTCTTCATTGCCTGAAAGAATC
 TCTCCACTTCAAGCTAACAAATCAACAGCAAGTCATTCGAGTTAATGTGCCAAAGTCTAAACCATGTGGC
 AAATCCACAGCCAAGGCAACTTGAAGTAGACCTTCCAATGGGAAAAAGGACTGGTCTGAGAAGGATCA
 GCATAGCGGACAGCTCCATGTTACAGCCCGTGTCCCTGGGCTGGCAGTGCTGGAATCAGCACCTGGGA
 CAGCAATCAGACCATTCCTATTGGCCTGCAGAATAAATGTCTCAGTCTGGCTAGGTACAACACGG
 CTCCTAGAACTGTCCATCCTTGCAGTAGGAACCTGGGAGCAGTCCAGGACCCAGAACCTCAGGTGA
 GCCTCTCACAGATCTCATAGTCACTGCAGAGACAGTGAAGGCAGCATGAGAGAGAGTGGGGTCTGGATA
 GACAGATCTCGCCAGGCAGTCGAAAGGCCAGCTTTCTGTCCAGATTGTTGTCTGAAAAGGCACATCTGC
 ACAGTGACTCAGGAAGCTCTGGTCTCGGAATAGCTCCTGCTTGGATTTTCTCACTGGGAAACAGCCC
 CTCACCTCTGCCTTCAGTCACTGGGCACAGAATCAATGGTAAGACAGGCAGCCCTACCGATCATGGAA
 CTATCACAAAGAGCTGTTCCATTCTGGATGCTTTCTTTTCTTTCTTTCTTCTTCTGGGGTGTGTATGTATG
 TTTGTGTTGACAGAGAGGCAGATGGAGGGGAGATTATTTATGGAGAGATAAAATTATTCATTCGATACA
 TTCAGTTAAATTCAATCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG212089 representing NM_032602
 Red=Cloning site Green=Tags(s)

MGDWNLLGGILEEVHSHSTIVGKIWLITLIFRMLVLRVAAEDVWDDEQSAFACNTRQPGCNNICYDDAF
 PISLIRFWLQIIFVSSPSLVYMGHALYRLRAFEKDRQRKSHLRAQMPNPDLDLEEQRIDRELRRLEE
 QKRIHKVPLKGCLLRITYVLHILTRSVLEVFMIGQYILYGFQMHPLYKCTQPPCPNAVDCFVSRPTEKTI
 FMLFMHSIAAISLLLNILEIFHLGIRKIMRTLYKSSSEIEDETGPFFHLKKYSVAQQCMICSSLPERI
 SPLQANNQQVIRVNVKSKTMWQIPQPRQLEVDPSNGKKDWSEKDQHSQQLHVHSPCPWAGSAGNQHLG
 QQSDHSSFGLQNTMSQSWLGTTTAPRNCPSFAVGTWEQSDPEPSGEPLTDLHSHCRDSEGSMSRESGVWI
 DRSRPGSRKASFLSRLLSEKRHLHSDSGSSGRNSSCLDFPHWENSPSPLPSVTGHRTSMVRQAALPIME
 LSQELFHSGCFLFPFFLPGVCMYVCVDREADGGGDYLRWDKIIHSIHSVKFNS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032602

ORF Size: 1629 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.

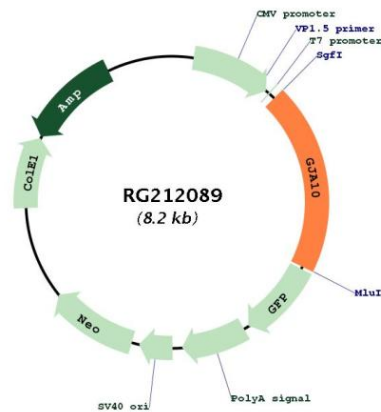
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032602.2](#)

RefSeq Size: 1632 bp

RefSeq ORF:	1632 bp
Locus ID:	84694
UniProt ID:	Q969M2
Cytogenetics:	6q15
Protein Families:	Transmembrane
Gene Summary:	Connexins, such as GJA10, are involved in the formation of gap junctions, intercellular conduits that directly connect the cytoplasm of contacting cells. Each gap junction channel is formed by docking of 2 hemichannels, each of which contains 6 connexin subunits (Sohl et al., 2003 [PubMed 12881038]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG212089