

## Product datasheet for **SC108214**

### **GJA5 (NM\_005266) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GJA5 (NM_005266) Human Untagged Clone
Tag:	Tag Free
Symbol:	GJA5
Synonyms:	ATFB11; CX40
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005266, the custom clone sequence may differ by one or more nucleotides

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ATGGGCGATTGGAGCTTCTGGGAAATTCCTGGAGGAAGTACACAAGCACTCGACCGTGGTAGGCAAGG
TCTGGCTCACTGTCTCTTCATATTCGGTATGCTCGTGTCTGGGCACAGCTGCTGAGTCTTCTGGGGGA
TGAGCAGGCTGATTTCCGGTGTGATACGATTCAGCCTGGCTGCCAGAATGTCTGCTACGACCAGGCTTTC
CCCATCTCCACATTCGCTACTGGGTGCTGCAGATCATCTTCGTCTCCACGCCCTCTCTGGTGTACATGG
GCCACGCCATGCACACTGTGCGCATGCAGGAGAAGCGCAAGCTACGGGAGGCCGAGAGGGCCAAAGAGGT
CCGGGGCTCTGGCTCTTACGAGTACCCGGTGGCAGAGAAGGCAGAACTGTCTGTGGGAGGAAGGGAAT
GGAAGGATTGCCCTCCAGGGCACTCTGCTCAACACCTATGTGTGCAGCATCCTGATCCGCACCACCATGG
AGGTGGGCTTCATTGTGGGCCAGTACTTACATCTACGGAATCTTCCTGACCACCCTGCATGTCTGCCGCG
GAGTCCCTGTCCCCACCCGGTCAACTGTTACGTATCCCGCCACAGAGAAGAATGTCTTATTGTCTTT
ATGCTGGCTGTGGCTGCACTGTCCCTCCTCTTAGCCTGGCTGAACTCTACCACCTGGGCTGGAAGAAGA
TCAGACAGCGATTTGTCAAACCGCGGCAGCACATGGCTAAGTGCCAGCTTCTGGCCCCTCTGTGGGCAT
AGTCCAGAGCTGCACACCACCCCGACTTTAATCAGTGCCTGGAGAATGGCCCTGGGGGAAAATTTCTTC
AATCCCTTCAGCAATAATATGGCCTCCCAACAAAACACAGACAACCTGGTCACCGAGCAAGTACGAGGTC
AGGAGCAGACTCCTGGGGAAGGTTTCATCCAGGTTCTGTTATGGCCAGAAGCCTGAGGTGCCAATGGAGT
CTCACCAGGTCACCGCCTCCCCATGGCTATCATAGTGACAAGCGACGTCTTAGTAAGGCCAGCAGCAAG
GCAAGGTCAGATGACCTATCAGTGTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005266 unedited  
 GTCACATTTTGTATACGACTCACTTAGGCGGCCGCGATTCCGCCGAGGAACAACACTGACAGG  
 CTCAGAGCAAAAGCGTGGGCAGTTGGAGAAGAAGCAGCCAGAGTGTGAAGAAGCCACGG  
 AAGGAAAGTCCAGGGAGGAGGAAAAGAAGCAGAAGTTTTGGCATCTGTTCCCTGGCTGTG  
 CCAAGATGGGCGATTGGAGCTTCTGGGAAATTTCTGGAGGAAGTACACAAGCACTCGA  
 CCGTGGTAGGCAAGGCTGGCTCACTGTCTCTCATATTCGGTATGCTCGTGTGGGCA  
 CAGCTGCTGAGTCTTCTGGGGGATGAGCAGGCTGATTTCCGGTGTGATACGATTCAGC  
 CTGGCTGCCAGAATGTCTGCTACGACCAGGCTTTCCCATCTCCACATTCGCTACTGGG  
 TGCTGCAGATCATCTTCGTCTCCACGCCCTCTCTGGTGTACATGGGCCACGCCATGCACA  
 CTGTGCGCATGCAGGAGAAGCGCAAGCTACGGGAGGCCGAGAGGGCCAAAGAGGTCGGG  
 GCTCTGGCTCTTACGAGTACCCGGTGGCAGAGAAGGCAGAACTGTCTGTGGGAGGAAG  
 GGAATGGAAGGATTGCCCTCCAGGGCACTCTGCTCAACACCTATGTGTGCAGCATCTGA  
 TCCGCACCACCATGGAGGTGGGCTTCATTGTGGGCCAGTACTTCATCTACGGAATCTTCC  
 TTGACACCCTGCATGTCTGCCGAGGAGTCCCTGTCCCCACCCGGCAACTGGTACGTATC  
 CCGGCCCCAGAAAAAAGTCTCCTTGTCTTTATGCGCTTGGGCTGCATTGTCCCTCTTCT  
 TAACTGGCTGACTCTACACCTTGCTGGAAAAGACAGACGCCATTGTCCAACCCCGAGTA  
 CTTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005266 unedited  
 AGCGATAGCATTTATTAAGCCAAATTACACATTTTACTATATTTTTCTTTCTAAAACCC  
 TCACCATCAAAGATTGATCCACAGAATTTCTAATTCAAGAACACTCATTTTATAAAACA  
 TTTTCCAGAGATAGAAGGAGAGAAAATATTAATGCTAGGCAATAGATTAAGGTTGCCCT  
 CCAGGGACCCGGGATGATCAGACATTCCTTCTAAATGGCATCCTAGTCACTTTCTCCA  
 CCTCTCCACTCTATTTATCTTTCCACCAACAATAGCATCCAAGTGTACAGCAGAGGGCC  
 CAGAGATGGGCAGGTGAGTCAGAGGTTGAACCTCCTTCTGAGCCTTTACCCTCCTGTG  
 CCAACCTCTTGTGGCTATCTGTTTAGGTTAATAACTGCCAGGCAGCCGGAGAGGAGCA  
 GGAAGACACAAGTTTCTCTGTGGTTTCTTTCTTATTTCAGGACTCCCCAAGCCTTTAC  
 CCATCCCATCAGCACCCACACACACACACAGTGCATTTAATAATGTAATAATCTCTCT  
 ATAAGTCTCAGTTCCAATTCGAAGCATCGTTTACCTTCATCCAAAACAACAGCAACCCA  
 TTATGGATCCAGTGAATACAGAGACCAGGCAATCCCTGGGGAAGGCAAGGCTTTTCTAC  
 AGCCCCACTTGGCAGTCTCATTAGGGCACTAGGGAGACATAGGAATCTCTGCGCTCTT  
 TAAATAAGGCCCTGCCAAGAGAGCTGGAGATTCCCTACTATNTCCTTGGCCCNCTGTA  
 GCCTNCAGGAGAGAGATCTGGNGCCTNCATAGCTGTCATCACACCTNCTCTTGGCAC  
 TAAGNTGGCAGTCAGCANAGGGAAGTAATAGGAGGGGAAAAATAGTTTCGNGGTTTCTCT  
 CATTNTATTTTCTCCAGCAGATTTTTTTTTTACAGGGGATTGAGAGTCAAGCTTTCTT  
 GTTTACAAGCCTGGGAANTCACTGNCTCAGGCCTGAGACTGGCN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005266

**Insert Size:**

3740 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_005266.4](#), [NP\\_005257.2](#)

**RefSeq Size:** 3201 bp

**RefSeq ORF:** 3201 bp

**Locus ID:** 2702

**UniProt ID:** [P36382](#)

**Cytogenetics:** 1q21.2

**Domains:** CNX

**Protein Families:** 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. Mutations in this gene may be associated with atrial fibrillation. Alternatively spliced transcript variants encoding the same isoform have been described. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (A) represents the longer transcript. Variants A and B encode the same protein.