

## Product datasheet for **SC320311**

### **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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_005266.5  
 CCATTTTCAAACAGTCCCTCCTGGGAGAACACAGACAGGCAGAGGATTACAACACAAGGC  
 AGCAAGCACTGGGAGACGAAAGTTTTGGCATCTGTTCCCTGGCTGTGCCAAGATGGGCGA  
 TTGGAGCTTCTGGGAAATTTCTGGAGGAAGTACACAAGCACTCGACCGTGGTAGGCAA  
 GGTCTGGCTCACTGTCTCTTTCATATCCGTATGCTCGTGTCTGGGCACAGCTGCTGAGTC  
 TTCCTGGGGGATGAGCAGGCTGATTTCCGGTGTGATACGATTACGCTGGCTGCCAGAA  
 TGTCTGCTACGACCAGGCTTTCCCATCTCCACATTTCGCTACTGGGTGCTGCAGATCAT  
 CTTGCTCTCCACGCCCTCTGTTGTACATGGGCCACGCCATGCACACTGTGCGCATGCA  
 GGAGAAGCGCAAGCTACGGGAGGCCGAGAGGGCCAAAGAGGTCCGGGGCTCTGGCTTTA  
 CGAGTACCCGGTGGCAGAGAAGGCAGAAGTGTCTGCTGGGAGGAAGGAATGGAAGGAT  
 TGCCCTCCAGGGCACTCTGCTCAACACCTATGTGTGCAGCATCCTGATCCGCACCACCAT  
 GGAGGTGGGCTTTCATTGTGGCCAGTACTTTCATCTACGGAATCTTCTGACCACCCTGCA  
 TGTCTGCCGAGGAGTCCCTGTCCACCCGGTCAACTGTTACGTATCCCGGCCACAGA  
 GAAGAATGTCTTATTGTCTTTATGCTGGCTGTGGCTGCACTGTCCCTCCTCTAGCCT  
 GGCTGAAGTCTACCACCTGGGCTGGAAGAAGATCAGACAGCGATTTGTCAAACCGCGGCA  
 GCACATGGCTAAGTGCCAGCTTTCTGGCCCTCTGTGGGCATAGTCCAGAGCTGCACACC  
 ACCCCCGACTTTAATCAGTGCCTGGAGAATGGCCCTGGGGGAAAATTCTTCAATCCCTT  
 CAGCAATAATATGGCCTCCCAACAAAACACAGACAACCTGGTCACCGAGCAAGTACGAGG  
 TCAGGAGCAGACTCCTGGGAAGGTTTCATCCAGGTTTCGTTATGGCCAGAAGCCTGAGGT  
 GCCCAATGGAGTCTCACCAGGTCAACCGCTTCCCATGGCTATCATAGTGACAAGCGAGC  
 TCTTAGTAAGGCCAGCAGCAAGGCAAGGTGAGTACGATGACCTATCAGTGTGACCCTCCTTAT  
 GGGAGGATCAGGACCAGTGGGAACAAAGGAGGCTCAGAGAGGAAAGACGTGTCCCTTCT  
 GAACTGATGCTTTCTCACTGTCATCACTGCTTGGCTCCTTTGAGCCCCGGGTCTCAATGA  
 CGTTGCTCATTAAATTCTAGAAACTATAACCAGGGCTCTGGGATAGTAAGAGAGGTGACAA  
 CCCACCCAGACTGCAGTTCCTCCACCTCTACCCAGTATACGAAGCCTTTCAGATTA  
 CTCATGAAACAGGGTAGAGGAAAGAAGGGAAGCATGGCAAAAGCTGGCCTGGAAGGGAT  
 AGCCAGAGGGATAGAATGACTCTCTCTACATACCAGCAGCATACCAATGCGTTCTCT  
 AAGTTCCTACCTCCTTGACCTGATCACCCTCCCTCCTCAAGGAAGAGCTCAAAGTTCCT  
 AGCCAATAGACAGCATGAATCAAGGAAGTGCATTATATGTGCTCTTGAATCTGTGTCT  
 CCATGGACCATTCTCGGAGTAGTGGTGTGAGATGGCCTTGGGTTGCCCTTGGCTTCTCCTC  
 CCTCTACTCAGCCTTAAAAGGGCTTCTTGAAGTTCACAGCAGCCTCAGCTTTACAAA  
 TGCTTGGTATGTACCTCTGGCAAATGCCCTGGTATGTACCTCTGGCAAATGCCCAACCT  
 TGGTGATGTTGCAACCTTTCCTTCTGCTAGGGTGTACACCTAGCCTGTGCAGGTGTCAGC  
 CCTGCTAGGGAGTCACTGTACACACAACTCTACTGGAATTCCTGCCAATCTGTCCACC  
 CTGCAGCTCCTTACAGTTCAATCCAATGATAGAAACCATCCCTTCCCTTCTCCCTTGG  
 CTGTTACCCAGCCATTCCTGAAGGCCTTACCAACAGGAATATCCAAGAAGCTGTTGTC  
 CTCTCTCGAACCTGACCAGATCATCAGCCACTGAGGCCAGTGAATTTCCCAAGGCCTT  
 GTTAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_005266

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_005266.5</a></u> , <u><a href="#">NP_005257.2</a></u>
<b>RefSeq Size:</b>	3177 bp
<b>RefSeq ORF:</b>	1077 bp
<b>Locus ID:</b>	2702
<b>UniProt ID:</b>	<u><a href="#">P36382</a></u>
<b>Cytogenetics:</b>	1q21.2
<b>Domains:</b>	CNX
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<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. 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]</p> <p>Transcript Variant: This variant (A) represents the longer transcript. Variants A and B encode the same protein.</p>