

## Product datasheet for **SC318148**

### Pannexin 2 (PANX2) (NM\_052839) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pannexin 2 (PANX2) (NM_052839) Human Untagged Clone
Tag:	Tag Free
Symbol:	Pannexin 2
Synonyms:	hPANX2; PX2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_052839 edited  
 ATGCACCACCTCCTGGAGCAGTCGGCGGACATGGCGACCGCGCTGCTGGCGGGAGAGAAG  
 CTGCGGGAGTGATCCTGCCGGGCGCGCAGGACGACAAGGCGGGCGCGCTGGCCGCGCTG  
 CTTCTGCAGCTGAAGCTGGAGCTGCCGTTGACCCGGGTGGTCACCATCGGCACCGTGTG  
 GTGCCCATCCTGCTGGTACCCTGGTCTTACCAAGAACTTCGCAGAGGAACCCATTTAC  
 TGTTACACCCCGCACAACCTTACGCGCGACAGGCGCTGTACGCCCGCGGCTACTGCTGG  
 ACGGAGTGCGGGACCGCTGCCCGCGTGGACGCCAGCCTGTGGCCGCTGCTGTTGAG  
 CACAAGTTCCTGCCCTACGCGCTGCTGGCCTTCGCCGCCATCATGTACGTGCCCGCGCTG  
 GGCTGGGAGTTCCTGGCCTCCACGCGCCTCACCTCCGAGCTCAACTTCCTGCTGCAGGAG  
 ATCGACAACCTGTTACCACCGGGCGGCGAGGGCCGCGCGCCAAGATCGAGAAGCAGATC  
 CAGTCCAAGGGCCCGGCATCACGGAGCGGAGAAAGCGGAGATCATCGAGAAGCGGGAG  
 AAGGAGAAGAGCCCGGAGCAGAACCTGTTGAGAAGTACCTGGAGCGCCGCGCCGCGAGC  
 AACTTCCTGGCCAAGCTGTACCTGGCGCGCACGTGCTGATCCTGCTGCTGAGCGCCGTG  
 CCCATCTCTACCTGTGCACCTACTACGCCACGCAGAAGCAGAACGAGTTCACCTGCGCG  
 CTGGGCGCGTCCCGGACGGGGCGGAGGTGCGGGGCCCGCGGTGCGCGTGTGAGTCAAG  
 CTCCTCGTCAACTGCAGCGCATCATCGCGGGCGTGGACATCGTGTGCTGTGCGTTC  
 ATGAACCTCATATCCTCGTCAACCTCATCCACCTCTTCACTTCCGCAAGGCAACTTC  
 ATCTTCGACAAGTGCACAAGGTGGGCATCAAGACGCGCCGCGAGTGGCGCCGCTCGCAG  
 TTCTGCGACATCAACATCCTGGCCATGTTCTGCAACGAGAACCAGCGACCATCAAGTGC  
 CTCAACCGGCTGGACTTCATCACAACGAGAGCGACCTCATGTACGACAACGTGGTCCGG  
 CAGCTGCTGGCGGCGTGGCGCAGTCCAACCACGACGCCACCCACGGTGGCGGACTCG  
 GGGGTGCAGACCGTGGACCCAGCGCAACCCCGCGAGCCGACGGCGCCGCGGAGCCG  
 CCCGTGGTCAAGCGGCGCGCAAGAAGATGAAGTGGATCCCACCAGCAACCCGTTCCG  
 CAGCCCTTCAAGGAGCCGCTGGCCATCATGCGCGTGGAGAACAGCAAGGCGGAGAAGCCG  
 AAGCCCGCGCGCAGGAAGACGGCCACGGACACGCTGATCGCGCCGCTGCTGGACCCTCC  
 GCCCACCCTACAAGGGCGGAGGGGGGACCCGGGCCCGGCCCGCCCTGCCCGCGC  
 CCGCGCCCGCCCTGACAAGAAGCAGCGCGCCACTTCTCCCTGGACGTGCACCCTAC  
 ATCCTCGGCACCAAGAAGGCCAAGGCCGAGGCGGTGCCCGCCGCTGCCCGCTCCCGG  
 AGCCAGGAGGGGGGCTTCTGTCCAGGCGGAGGACTGTGGGCTGGGCTGGCCCGGGC  
 CCCATCAAAGATGCTCCGCTCCCGAGAAGGAAATCCCGTACCCACAGAGCCAGCCCGG  
 GCAGGGCTTCCCTCGGGGGCCCGTCCACGTCCGCTCACCTCCCGCCGCCCTGCTGTG  
 GCCCTCTGACACCAGCCAGCCTGGGCAAGGCGGAGCCCTCACCATCCTGAGCCGAAAC  
 GCCACACACCCGCTGCTGCACATCAACACGCTGTACGAGGCCCGGAGGAGGAGGACGGG  
 GGCCCCGCGCTGCCGAGGACGTGGGGACCTCATCGCCATCCCTGCCCCACAGCAGATC  
 CTCATCGCCACCTTCGACGAGCCGAGAACGGTCTGTGAGTACTGTGGAGTTTTGA

- Restriction Sites:** Please inquire
- ACCN:** NM\_052839
- Insert Size:** 3000 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).
- 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.
- 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\\_052839.3](#), [NP\\_443071.2](#)

**RefSeq Size:** 3069 bp

**RefSeq ORF:** 2034 bp

**Locus ID:** 56666

**UniProt ID:** [Q96RD6](#)

**Cytogenetics:** 22q13.33

**Protein Families:** Transmembrane

**Gene Summary:** The protein encoded by this gene belongs to the innexin family. Innexin family members are the structural components of gap junctions. This protein and pannexin 1 are abundantly expressed in central nervous system (CNS) and are coexpressed in various neuronal populations. Studies in *Xenopus* oocytes suggest that this protein alone and in combination with pannexin 1 may form cell type-specific gap junctions with distinct properties. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).