

## Product datasheet for **SC327150**

### Pannexin 2 (PANX2) (NM\_001160300) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pannexin 2 (PANX2) (NM_001160300) Human Untagged Clone
Tag:	Tag Free
Symbol:	Pannexin 2
Synonyms:	hPANX2; PX2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001160300, the custom clone sequence may differ by one or more nucleotides

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ATGCACCACCTCCTGGAGCAGTCGGCGGACATGGCGACCGCGCTGCTGGCGGGAGAGAAG
CTGCGGGAGCTGATCCTGCCGGGCGCGCAGGACGACAAGGCGGGCGCGCTGGCCCGCTG
CTTCTGCAGCTGAAGCTGGAGCTGCCGTTCCGACCGGTGGTCACCATCGGCACCGTGTG
GTGCCCCATCCTGCTGGTACCCTGGTCTTACCAAGAATTTCGAGAGGAACCCATTTAC
TGTTACACCCCGCACAACTTACACGCGCACCAGGCGCTGTACGCCCGGCTACTGCTGG
ACGGAGCTGCGGGACCGCTGCCCGCGTGGACGCCAGCCTGTGGCCGTGCTGTTTGGAG
CACAAGTTCCTGCCCTACGCGCTGCTGGCCTTCGCCGCCATCATGTACGTGCCCGCGCTG
GGCTGGGAGTTCTGGCCTCCACGCGCCTCACCTCCGAGCTCAACTTCCTGCTGCAGGAG
ATCGACAAGTGTACCACCGGGCGGCCGAGGGCCGCGGCCAAGATCGAGAAGCAGATC
CAGTCCAAGGGCCCGGCATCACGGAGCGGAGAAAGCGGAGATCATCGAGAACGCGGAG
AAGGAGAAGAGCCCGGAGCAGAACCTGTTGAGAAGTACCTGGAGCGCCGCGGCCGAGC
AACTTCCTGGCCAAGCTGTACCTGGCGCGCACGTGCTGATCCTGCTGCTGAGCGCCGTG
CCCATCTCTACCTGTGCACCTACTACGCCACGAGAAGCAGAACGAGTTCACCTGCGCG
CTGGGCGCGTCCCGGACGGGGCGGAGGTGCGGGGCCCGCGGTGCGCGTGTGAGTCAAG
CTCCCGTCCGTGCAACTGCAGCGCATCATCGCGGGCGTGGACATCGTGTGCTGTGCGTC
ATGAACCTCATATCCTCGTCAACCTCATCCACCTCTTCATCTTCGCAAGGCAACTTC
ATCTTCGACAAGTGCACAAGGTGGGCATCAAGACGCGCCGCGCAGTGGCGCCGCTCGCAG
TTCTGGCAGATCAACATCCTGGCCATGTTCTGCAACGAGAACCAGCGACCACATCAAGTGC
CTCAACCGGCTGGACTTCATACCAACGAGAGCGACCTCATGTACGACAACGTGGTCCGG
CAGCTGCTGGCGCGCTGGCGCAGTCCAACCACGACGCCACCCCAACGGTGGCGGACTCG
GGGTGACAGACCGTGGACCCAGCGCAAGAAAGTGAAGTGGATCCCCACAGCAACCCGTTCCG
CCCGTGGTCAAGCGGCCGCGCAAGAAGTGAAGTGGATCCCCACAGCAACCCGTTCCG
CAGCCCTTCAAGGAGCCGCTGGCCATCATGCGCGTGGAGAAGCAAGGCGGAGAAGCCG
AAGCCCGCGCGCAGGAAGACGGCCACGGACACGCTGATCGCGCCGCTGCTGGACCGCTCC
GCCCAACTACAAGGGCGGAGGGGGGACCCGGGCCCGGCCCGCCCTGCCCGCGC
CCGCCGCCCGCCCTGACAAGAAGCAGCGCGCCACTTCTCCCTGGACGTGCACCCCTAC
ATCCTCGCACCAAGAAGGCCAAGGCCGAGGCGGTGCCCGCCGCTGCCCGCTCCCGG
AGCCAGGAGGGGGCTTCTGTCCAGGCGGAGGACTGTGGGCTAGGCCTGGCCCGGCG
CCCATCAAGATGCTCCGCTCCCGAGAAGGAAATCCCGTACCCACAGAGCCAGCCCGG
GCAGGGCTTCCCTCGGGGGGCCGTTCCACGTCCGCTACCTCCCGCCGCCCTGCTGTG
GCCCTCTGACACCAGCCAGCCTGGGCAAGGCGGAGCCCTCACCATCCTGAGCCGAAAC
GCCACACACCCGCTGCTGCACATCAACACGCTATCCTCATCGCCACCTTCGACGAGCCGA
GAACGGTCG
    
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**Restriction Sites:** Please inquire

**ACCN:** NM\_001160300

**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).

<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>NM_001160300.1, NP_001153772.1</u>
<b>RefSeq Size:</b>	2984 bp
<b>RefSeq ORF:</b>	1932 bp
<b>Locus ID:</b>	56666
<b>UniProt ID:</b>	<u>Q96RD6</u>
<b>Cytogenetics:</b>	22q13.33
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>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 <i>Xenopus</i> 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]</p> <p>Transcript Variant: This variant (2), also known as PANX2alt1, lacks an alternate segment in the 3' coding region resulting in a frameshift, compared to variant 1. The resulting isoform (2) has a shorter and distinct C-terminus, compared to isoform 1.</p>