

## **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

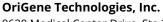
**Synonyms:** hPANX2; PX2

Mammalian Cell None

Selection:

Vector: pCMV6-XL5

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

ATGCACCACCTCCTGGAGCAGTCGGCGGACATGGCGACCGCGCTGCTGGCGGGAGAGAAG CTTCTGCAGCTGAAGCTGGAGCTGCCGTTCGACCGGGTGGTCACCATCGGCACCGTGCTG GTGCCCATCCTGCTGGTCACCCTGGTCTTCACCAAGAACTTCGCAGAGGAACCCATTTAC TGTTACACCCCGCACAACTTCACGCGCGACCAGGCGCTGTACGCCCGCGGCTACTGCTGG ACGGAGCTGCGGGACGCCTGCCCGGCGTGGACGCCAGCCTGTGGCCGTCGCTGTTTGAG CACAAGTTCCTGCCCTACGCGCTGCTGGCCTTCGCCGCCATCATGTACGTGCCCGCGCTG GGCTGGGAGTTCCTGGCCTCCACGCGCCTCACCTCCGAGCTCAACTTCCTGCTGCAGGAG ATCGACAACTGTTACCACCGGGCGGCCGAGGGCCGCGCGCCCAAGATCGAGAAGCAGATC CAGTCCAAGGGCCCGGGCATCACGGAGCGCGAGAAGCGCGAGATCATCGAGAACGCGGAG AAGGAGAAGAGCCCGGAGCAGAACCTGTTCGAGAAGTACCTGGAGCGCCGCGGCCGCAGC AACTTCCTGGCCAAGCTGTACCTGGCGCGCGCACGTGCTGATCCTGCTGCTGAGCGCCGTG CCCATCTCCTACCTGTGCACCTACTACGCCACGCAGAAGCAGAACGAGTTCACCTGCGCG CTGGGCGCGTCCCCGGACGGGGCGGCAGGTGCGGGGGCCCGCGGTGCGCGTGAGCTGCAAG CTCCCGTCCGTGCAACTGCAGCGCATCATCGCGGGCGTGGACATCGTGCTGCTGTGCGTC ATGAACCTCATCCTCGTCAACCTCATCCACCTCTTCATCTTCCGCAAGAGCAACTTC ATCTTCGACAAGCTGCACAAGGTGGGCATCAAGACGCGCCGGCAGTGGCGCCGCTCGCAG TTCTGCGACATCAACATCCTGGCCATGTTCTGCAACGAGAACCGCGACCACATCAAGTCG CTCAACCGGCTGGACTTCATCACCAACGAGAGCGACCTCATGTACGACAACGTGGTCCGG CAGCTGCTGGCGCGCTGGCGCAGTCCAACCACGACGCCACCCCCACGGTGCGCGACTCG CCCGTGGTCAAGCGGCCGCGCAAGAAGATGAAGTGGATCCCCACCAGCAACCCGCTTCCG CAGCCCTTCAAGGAGCCGCTGGCCATCATGCGCGTGGAGAACAGCAAGGCGGAGAAGCCG AAGCCCGCGCGCAGGAAGACGGCCACGGACACGCTGATCGCGCCGCTGCTGGACCGCTCC GCCCACCACTACAAGGGCGGAGGGGGCGACCCGGGCCCCGGCCCCTGCCCCGCC CCGCCGCCCCTGACAAGAAGCACGCGCGCCACTTCTCCCTGGACGTGCACCCCTAC AGCCAGGAGGGGGCTTCCTGTCCCAGGCGGAGGACTGTGGGCTAGGCCTGGCCCCGGCG GCAGGGCTTCCCTCGGGGGGCCCGTTCCACGTCCGCTCACCTCCCGCCGCCCCCTGCTGTG GCCCCTCTGACACCAGCCAGCCTGGGCAAGGCGGAGCCCCTCACCATCCTGAGCCGAAAC GCCACACCCCGCTGCTGCACATCAACACGCTATCCTCATCGCCACCTTCGACGAGCCGA GAACGGTCG

**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).



**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: <u>NM 001160300.1</u>, <u>NP 001153772.1</u>

 RefSeq Size:
 2984 bp

 RefSeq ORF:
 1932 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

RefSeg, May 2009]

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.

This was dust is to be used for laboratory only. Not for