

Product datasheet for **SC306680**

P2X2 (P2RX2) (NM_170682) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2X2 (P2RX2) (NM_170682) Human Untagged Clone
Tag:	Tag Free
Symbol:	P2X2
Synonyms:	DFNA41; P2X2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_170682 edited
GGCCGCGATTGCGCCCTTATGGCCGCGCCAGCCCAAGTACCCCGCGGGGCGACCGCCC
GGCGCCTGGCCCGGGCTGCTGGTCCGCCCTCTGGGACTACGAGACGCCCAAGGTGATCG
TGGTGAGGAACCGCGCCTGGGGTCTGTACCGCGCCGTGCAGCTGCTCATCCTGCTCT
ACTTCGTGTGGTACGTATTCATCGTGCAGAAAAGCTACCAGGAGAGCGAGACGGGCCCG
AGAGCTCCATCATCACC AAGGTCAAGGGGATCACCACGTCGAGCACAAGGTGTGGGACG
TGGAGGAGTACGTGAAGCCCCCGAGGGGGCAGCGTGTTCAGCATCATCACCAGGGTGC
AGGCCACCACTCCAGACCCAGGGAACCTGCCCGAGAGCATAAGGGTCCACAACGCCA
CCTGCCTCTCCGACGCCGACTGCGTGGCTGGGGAGCTGGACATGCTGGGAAACGGCCTGA
GGACCGGGCGCTGTGTGCCCTATTACCAGGGGCCCTCCAAGACCTGCGAGGTGTTCCGGCT
GGTGCCCGGTGGAAGATGGGGCCTCTGTACGCCAATTTCTGGGTACGATGGCCCCAATT
TCACCATCCTCATCAAGAACAGCATCCACTACCCAAATTCCACTTCTCCAAGGGCAACA
TCGCCGACCGCACAGACGGGTACCTGAAGCGCTGCACGTTCCACGAGGCCTCCGACCTCT
ACTGCCCATCTTCAAGCTGGGCTTTATCGTGGAGAAGGCTGGGGAGAGCTTACAGAGC
TCGCACACAAGGGTGGTGTATCGGGGTCAATTCAACTGGGACTGTGACCTGGACCTGC
CTGCATCGGAGTGCAACCCCAAGTACTCCTCCGGAGGCTTGACCCCAAGCACGTGCCTG
CCTCGTCAAGCTACAACCTCAGGTTTGCCAAATACTACAAGATCAATGGCACCACCACC
GCACGCTCATCAAGGCCTACGGGATCCGCATTGACGTCAATGTGCATGGACAGGCCGGGA
AGTTCAAGCCTGATCCCACATTATTAATCTGGCCACAGCTGTGACTTCCGTGCGGGTGG
GCTCCTTCTGTGCGACTGGATCTTGCTAACATTCATGAACAAAACAAGGTCTACAGCC
ATAAGAAATTTGACAAGGTGTGTACGCCGAGCCACCCCTCAGGTAGCTGGCCTGTGACCC
TTGCCCGTGATTGGGCCAGGCCCTCCCGAACCCGGCCACCGCTCCGAGGACCAGCACC
CCAGCCCTCCATCAGGCCAGGAGGGCCAACAAGGGGCAGAGTGTGGCCAGCCTTCCCGC
CCCTGCGGCCCTTGCCCCATCTCTGCCCTTCTGAGCAGATGGTGGACACTCCTGCCTCCG
AGCCTGCCAAGCCTCCACACCCACAGACCCCAAGGTTTGGCTCAACTCTGAGCTCCTT
TCCATCTCACTGGACTGCAGAAAGGGCAATTCAGATCTGGTACCGATATCAAGCTTGTG
GACTCTAGATTGGGCCGCGGTATAGCTGTTTCTGAACG



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_170682 unedited NNGGGTTGNATTTGTATACGATCATATAGGGCGGCCGCGATTTCGCCCTTATGGCCGCCGC CCAGCCCAAGTACCCCGCCGGGGCGACCGCCCGGCCTGGCCCGGGGCTGCTGGTCCGC CCTCTGGGACTACGAGACGCCCAAGGTGATCGTGGTGAGGAACCGGCCCTGGGGTCTCT GTACCGCGCCGTGCAGCTGCTCATCCTGCTCTACTTCGTGTGGTACGTATTCATCGTGCA GAAAAGCTACCAGGAGAGCGAGACGGCCCCGAGAGCTCCATCATACCAAGGTCAAGGG GATCACCACGTCCGAGCACAAAGTGTGGACGTGGAGGAGTACGTGAAGCCCCCGAGGG GGCAGCGTGTTCAGCATCATCACCAGGTCGAGGCCACCCACTCCAGACCCAGGGAAC CTGCCCGAGAGCATAAAGGTCCACAACGCCACCTGCCTCTCCGACGCCGACTGCGTGCC TGGGGAGCTGGACATGCTGGAAACGGCCTGAGGACCGGGCGCTGTGTGCCCTATTACCA GGGGCCCTCCAAGACCTGCGAGGTGTTCCGGCTGGTGCCTGGTGAAGATGGGGCTCTGT CAGCCAATTTCTGGGTACGATGGCCCCAAATTTACCATCCTCATCAAGAACAGCATCCA CTACCCCAATTTCCACTTCTCCAAGGGCAACATCGCCGACCGCACAGACGGGTACCTGAA GCGCTGCACGTTCCACGAGGCCTCCGACCTCTACTGCCCATCTTCAAGCTGGGCTTTAT CGTGGAGAAAGCTGGGGAGAGCTTACAGAGCTCGCACACCAAGGTGGTGCATCGGGGT CATTATCAACTGGGACTGTGACCTGGACCTGCCT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_170682 unedited CACCATGGNGATGGCACTTCCAGNCCAGNAAAGCACTGGGGNAGGGTCACAGGATGCCA CCCGGGATCTGTTAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGACAAGCTTG ATATCGGTACCAGATCTGAATTCGCCCTTTCTGCAGTCCAGTGAGATGAAAAGGAGCTCA GAGTTGAGCCAAACCTTTGGGGTCTGTGGGTGTGGAGGCTTGGGCAGGCTCGGAGGCAGG AGTGTCCACCATCTGCTCAGAAGGGCAGAGATGGGGCAAGGCCGAGGGGCGGGAAGGC TGGGCCCACTCTGCCCTTGTGGCCCTCTGGCCTGATGGAGGGCTGGGGTGTGGTCT CTCGGAGCGGTGGCCGGTTCGGGAGGGCCCTGGCCCAATACACGGGCAAGGGTCACAGG CCAGCTACCTGAGGGGTGGCTCGGCGTACACACCTTGTCAAATTTCTTATGGCTGTAGAC CTTGTTTTTGTTCATGAATGTTAGCAAGATCCAGTCGCACAGGAAGGAGCCACCCCGAC GGAAGTCAGAGCTGTGGCCAGATTAATAATGGTGGGAATCAGGCTGAAGTCCCGGCCTG TCCATGCAACAATGACGTCAATGCCGATCCCGTAGGCCTTGTGAGCGTGCGGGTGGTGGT GCCATTGATCTTGTAGTATTTGGCAAACCTGAAGTTGTAGCCTGACGAGGCAGGCACGTG CTTGGGGTCAAGCCTCCGGAAGGAGTACTTGGGGTTCAGTCCGATGCANGCAGTCCAG GTCACAGTCCAGTTGATAATGACCCCGATGACACCACCTTGTGTGCGAGCTCTGTGAA GCTCTCCCGACGCTTCTCCACGATAAAGCCAGCTTGAAGATGGGGCAGTAAAAGGTCCG AGCCCTG</p>
Restriction Sites:	Please inquire
ACCN:	NM_170682
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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none">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_170682.2, NP_733782.1</u>
RefSeq Size:	1830 bp
RefSeq ORF:	1416 bp
Locus ID:	22953
UniProt ID:	<u>Q9UBL9</u>
Cytogenetics:	12q24.33
Protein Families:	Druggable Genome, Ion Channels: ATP Receptors, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction
Gene Summary:	<p>The product of this gene belongs to the family of purinoceptors for ATP. This receptor functions as a ligand-gated ion channel. Binding to ATP mediates synaptic transmission between neurons and from neurons to smooth muscle. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Aug 2013]</p> <p>Transcript Variant: This variant (1) lacks an alternate in-frame segment in the 3' end compared to variant 4. The resulting isoform (A) has the same N- and C-termini but is shorter compared to isoform D.</p>