

## Product datasheet for **SC118597**

### **P2RX7 (AB209709) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	P2RX7 (AB209709) Human Untagged Clone
Tag:	Tag Free
Symbol:	P2RX7
Synonyms:	P2X7
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >NCBI ORF sequence for AB209709, the custom clone sequence may differ by one or more nucleotides

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CTGTGGCCCTGTCAGGAAGAGTAGAGCTCTGGTCCAGCTCCGCGCAGGGAGGGAGGCTGTCACCATGCCG
GCCTGCTGCAGCTGCAGTGATGTTTTCCAGTATGAGACGAACAAAGTCACTCGGATCCAGAGCATGAATT
ATGGCACCATTAAAGTGGTTCTTCCACGTGATCATCTTTTCTACGTTTGTCTTGGCTCTGGTGAGTGACAA
GCTGTACCAGCGAAAGAGCCTGTCATCAGTTCTGTGCACACCAAGGTGAAGGGGATAGCAGAGGTGAAA
GAGGAGATCGTGGAGAATGGAGTGAAGAAGTTGGTGCACAGTGTCTTTGACACCCGAGACTACACCTTCC
CTTTGCAGGGAACTCTTTCTCGTGATGACAACTTTCTCAAAACAGAAGGCCAAGAGCAGCGTTGTG
TCCCGAGTATCCACCCGACGGACGCTCTGTTCTCTGACCGAGGTTGAAAAAGGGATGGATGGACCCG
CAGAGCAAAGGAATTAGACCCGGAAGGTGTGTAGTGCATGAAGGGAACCAAGAGCCTGTGAAGTCTCTG
CCTGGTGCCCATCGAGGCAGTGAAGAGGCCCCCGGCTGCTCTTGAACAGTGCCGAAAATTCAC
TGTGCTCATCAAGAACAATATCGACTTCCCGGCCACAACACACAGGAAACATCCTGCCAGGTTTA
AACATCACTTGTACCTTCCACAAGACTCAGAATCCACAGTGTCCATTTTCCGACTAGGAGACATCTTCC
GAGAAACAGGCGATAATTTTTAGATGTGGCAATTCAGGGCGGAATAATGGGCATTGAGATCTACTGGGA
CTGCAACCTAGACCGTTGGTTCATCACTGCCGTCCTCAAAATACAGTTTCCGTCGCTTGACGACAAGACC
ACCAACGTGTCCTTGTACCCTGGCTACAACCTCAGATACGCCAAGTACTACAAGGAAAACAATGTTGAGA
AACGGACTCTGATAAAAGTCTTCGGGATCCGTTTTGACATCCTGGTTTTTGGCACCAGGAGAAAATTTGA
CATTATCCAGCTGGTTGTGTACATCGGCTCAACCTCTCCTACTTCGGTCTGGTAAGAGATTCTCTTTTC
CATGCTTTAGGAAAATGGTTTGGAGAAGGAAGTACTAACGCAGCGCTTGTCTGCATTCTCCCGAGGCCA
CAAGTGTCTCAGCCCTGTGTGGTCAACGAATACTACTACAGGAAGAAGTGCAGTCCATTGTGGAGCCA
AAGCCGACATTAAGTATGTGTCTTTGTGGATGAATCCACATTAGGATGGTGAACCCAGCAGCTACTAG
GGAGAAGTCTGCAAGATGTCAAGGGCCAAGAAGTCCCAAGACCTGCGATGGACTTCACAGATTTGTCCAG
GCTGCCCTGGCCCTCCATGACACACCCCGATTCTGGACAACCAGAGGAGATACAGCTGCTTAGAAAAG
GAGGCGACTCCTAGATCCAGGGATAGCCCGTCTGGTGCCAGTGTGGAAGCTGCCTCCCATCTCAACTCC
CTGAGAGCCACAGGTGCCTGGAGGAGCTGTGCTGCCGAAAAAGCCGGGGGCTGCATCACACCTCAGA
GCTGTTACAGGAAGCTGGTCTGTCCAGACACGTCTGCAGTTCCTCCTGCTCTACCAGGAGCCCTTGCTG
GCGCTGGATGTGGATTCCACCAACAGCCGGCTGCGGCACTGTGCCTACAGGTGCTACGCCACCTGGCGCT
TCGGCTCCAGGACATGGCTGACTTTGCCATCTGCCAGCTGCTGCCGCTGGAGGATCCGGAAAGAGTT
TCCAAAGAGTGAAGGGCAGTACAGTGGCTTCAAGAGTCTTACTGAAGCCAGGCACCGTGGCTCACGCTCT
GTAATCCAGCGCTTTGGGAGGCCGAGGCAGGCAGATCACCTGAGGTGCGGAGTTGGAGACCCGCTGGC
TAACAAGGCGAAATCCTGTCTGTACTAAAAATACAAAAATCAGCCAGACATGGTGGCATGCACCTGCAAT
CCCAGCTACTCGGGAGGCTGAGGCACAAGAATCACTTGAACCCGGGAGGCAGAGGTTGTAGTGAGCCAG
ATTGTGCCACTGCTCTCCAGCCTGGGAGGCACAGCAAAGTGTCCC
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for AB209709 unedited NGGTCAAAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGTGGCCCTG TCAGGAAGAGTAGAGCTCTGGTCCAGCTCCGCGCAGGGAGGGAGGCTGTCACCATGCCGG CCTGCTGCAGCTGCAGTGATGTTTTCCAGTATGAGACGAACAAAGTCACTCGGATCCAGA GCATGAATTATGGCACCATTAAGTGGTCTTCCACGTGATCATTTTTCTACGTTTGCT TTGCTCTGGTGAGTGACAAGCTGTACCAGCGGAAAGAGCCTGTCATCAGTTCTGTGCACA CCAAGGTGAAGGGGATAGCAGAGGTGAAAGAGGAGATCGTGGAGAATGGAGTGAAGAAGT TGGTGCACAGTGTCTTTGACACCGCAGACTACACCTTCCCTTTGCAGGGAACTCTTTCT TCGTGATGACAACTTTCTCAAAACAGAAGGCCAAGAGCAGCGTTGTGTCCCGAGTATC CCACCCGACGGACGCTCTGTTCTCTGACCGAGGTTGTAAGGAGGATGGATGGACCCGC AGAGCAAAGGAATTCAGACCGGAAGGTGTAGTGCATGAAGGGAACAGAACCTGTG AAGTCTCTGCCTGGTCCCCATCGAGGCAGTGAAGAGGCCCCCGGCCTGCTCTTTGA ACAGTGCCGAACTTTCACTGTGCTCATCAAGAACAATATCGACTTCCCCGGCCACACT ACACCAGAGAAACATCCTGCCAGGTTTAAACATCACTTGTACCTTCCACAAGACTCAGA ATCCACAGTGTCCATTTTTCGACTANGAGACATCTCCGAGAAACAGGGGATAATTTTT CAGATGTGGCAATCAGGNCCGATATGGGCCATTGAGATCTACTGGGACTGCACCTANAC CG
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for AB209709 unedited AGGTGCTTGTGTGCCCCCAGTCTGGNATACAGTGGACAATCTGGGCTCACTACAAC CTCTGCCTCCCGGTTCAAGTGATTCTTGTGCCTCAGCCTCCCGAGTAGCTGGGATTGCA GGTGCATGCCACCATGTCTGGCTGATTTTTGTATTTTTAGTACAGACAGGATTTGCTT GTTAGCCAGGCGGGTCTCCAACCTCCGACCTCAGGTGATCTGCCTGCCTCGGCCTCCCAA AGCGCTGGGATTACAGACGTGAGCCACGGTGCCTGGCTTCAGTAAAGACTCTTGAAGCCA CTGACTGCCCTTCACTCTTTGGAACTCTTCCGGATCCTCCAGCGGCAGCAGCTGGGC AGGATGGCAAAGTCAAGCATGTCTGGGAGCCGAAGCGCCAGGTGGCGTAGCACCTGTAG GCACAGTGCCGACCGGCTGTTGGTGGAAATCCACATCCAGCGCCAGCAAGGGCTCCTGG TAGAGCAGGAGGAACTGCAGGACGTGTCTGGACAGGACCAGCTTCTGAACAGCTCTGAG GTGGTGATGCAGGCCCGGCTTTTTCCGGCAGCACAGCTCCTCCAGGCACCTGTGGCTC TCANGGAGTTGAGATGGGAGGCAGCTTCCACACTGGCACCAGACGGGGTATCCCTGGAT CTAGGAGTCGCCTCCTTTCTAAGCAGCTGTATCTCCTCTGGTTGTCCAGGAATCGGGGGT GTGTCATGGAAGGCCAGGGCAGCCTGGACAAATCTGTGAAAGTCATCAAGTCCCTTGG GACTTCTTGGCCCTTTGACATCTTTGCAGAACTTCTCCTCTGATAGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AB209709
<b>Insert Size:</b>	2240 bp
<b>OTI Disclaimer:</b>	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).
<b>RefSeq:</b>	<a href="#">AB209709.1</a> , <a href="#">BAD92946.1</a>
<b>RefSeq Size:</b>	2215 bp
<b>RefSeq ORF:</b>	2215 bp
<b>Locus ID:</b>	5027
<b>Protein Families:</b>	Druggable Genome, Ion Channels: ATP Receptors, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, Neuroactive ligand-receptor interaction

**Gene Summary:**

The product of this gene belongs to the family of purinoceptors for ATP. This receptor functions as a ligand-gated ion channel and is responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules. Activation of this nuclear receptor by ATP in the cytoplasm may be a mechanism by which cellular activity can be coupled to changes in gene expression. Multiple alternatively spliced variants have been identified, most of which fit nonsense-mediated decay (NMD) criteria. [provided by RefSeq, Jul 2010]