

## Product datasheet for **MC216721**

### **P2rx2 (NM\_153400) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	P2rx2 (NM_153400) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	P2rx2
Synonyms:	P2x2; P2X2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >NM\_153400.4  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGCTGCACAGCCCGGCTTCCCGCGGGGGCGGCCATGGTCCGGCGCTTGGCCCGGGGCTGCTGGT  
 CCGCGTTCCTGGGACTACGAGACGCCAAGGTGATCGTGGTGCGGAATCGGCGCCTGGGATTCGTGCACCG  
 CATGGTGCAGCTGCTCATTCTGCTTTACTTCGTGTGGTACGTCTTCATCGTGCAGAAAAGCTACCAGGAT  
 AGCGAAACCGGTCCGGAGAGCTCCATCATCACAAAGTCAAGGGGATCACCATGTCGGAACACAAAGTGT  
 GGGACGTGGAGGAATACGTAAAGCCCCGGAGGGGGCAGTGTAGTCAGCATCATCACCAGGATCGAGGT  
 TACTCCTTCCCAGACCCTGGGAACATGCCAGAGAGCATGAGGGTTCACAGCTCTACCTGCCATTTAGAT  
 GACGACTGTGTGGCCGGACAGCTGGACATGCAGGGCAATGGGATTCGGACAGGACGCTGTGTACCCTATT  
 ACCATGGGGACTCCAAGACCTGCGAGGTGTGAGCTGGTCCCGGTGGAGGATGGGACTTCTGAAAACCA  
 TTTTCTGGGTAATAAGTGGCCCAAAATTTACCATCCTCATCAAGAACAGCATCCACTATCCCAAGTTCAAG  
 TTCTCCAAGGGCAACATTGCAAGCCAGAAGAGTACTACCTGAAGCACTGCACGTTTGATCAGGACTCTG  
 ATCCATACTGTCCATCTTCAGGCTGGGCTTCATTGTAGAGCAAGCAGGAGAGAAGTTCACAGAAGTGGC  
 ACACAAGGGCGGTGTCATTGGGGTCATCATCAACTGGAAGTGTGACCTGGACTTGTCTGAATCAGAGTGC  
 AACCCCAATATTCTTTCCGGAGGCTCGACCCCAAGTATGACCCTGCCTTTCAGGCTACAAGTTCAGGT  
 TTGCCAATATTACAAGATAAACGGCACCACCACCTCGAACTCATCAAAGCCTATGGGATTCGAAT  
 TGACGTTATTGTGCATGGACAGGCAGGGAAATTCAGTCTCATTCCACCATCATCAATCTGGCCACTGCT  
 CTGACCTCCATCGGGTGGGCTCCTTTCTGTGTGACTGGATTTTGTTAACGTTTCATGAACAAAAACAAGC  
 TCTACGCCATAAGAAGTTCGACAAGGTGCGTACCCCAAGGCACCCCTCAAGTAGATGGCCTGTGACCT  
 TGCCCTTGTCTTGGGCCAGATCCCTCCCCACCTAGTCACTACTCCAGGACCAGCCACCCAGCCTTCCA  
 TCAGGTGAAGGACCAGCTTTGGGAGAAGGGCAGAGCTACCAGTGGCTGTCCAGCCTCCTCGGTCTTGTCT  
 CCAGCTCTGCTCTGACTGAGCAGGTGGTGGACTCTTGACCAGCATATGGGACAAAGGCCTCCTGTCCC  
 TGAGCCTTCCCAACAGGACTCCACATCCACGGACCCCAAGGTTTGGCCCAACTTTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2306\\_f08.zip](https://cdn.origene.com/chromatograms/ja2306_f08.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_153400

**Insert Size:** 1458 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>Components:</b>	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><a href="#">NM_153400.4</a></u> , <u><a href="#">NP_700449.2</a></u>
<b>RefSeq Size:</b>	1919 bp
<b>RefSeq ORF:</b>	1458 bp
<b>Locus ID:</b>	231602
<b>UniProt ID:</b>	<u><a href="#">Q8K3P1</a></u>
<b>Cytogenetics:</b>	5 F
<b>Gene Summary:</b>	<p>Ion channel gated by extracellular ATP involved in a variety of cellular responses, such as excitatory postsynaptic responses in sensory neurons, neuromuscular junctions (NMJ) formation, hearing, perception of taste and peristalsis. In the inner ear, regulates sound transduction and auditory neurotransmission, outer hair cell electromotility, inner ear gap junctions, and K(+) recycling. Mediates synaptic transmission between neurons and from neurons to smooth muscle.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes isoform a.</p>