

## Product datasheet for MC212923

### P2rx2 (NM\_001164833) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: P2rx2 (NM\_001164833) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: P2rx2  
 Synonyms: P2x2; P2X2a  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >MC212923 representing NM\_001164833  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGCTGCACAGCCCCGGCTTCCCGCGGGGGCGGCCATGGTCCGGCCTTGGCCGGGGCTGCTGGT  
 CCGCGTCTCTGGACTACGAGACGCCAAGGTGATCGTGGTGCAGGATCGGCGCCTGGGATTCGTGCACCG  
 CATGGTGCAGCTGCTCATTCTGCTTTACTTCGTGTGGTACGTCTTCATCGTGCAGAAAAGCTACCAGGAT  
 AGCGAAACCGGTCCGGAGAGCTCCATCATCACAAAGTCAAGGGGATCACCATGTCGGAACACAAAGTGT  
 GGGACGTGGAGGAATACGTAAAGCCCCGGAGGGGGCAGTGTAGTCAGCATCATCACCAGGATCGAGGT  
 TACTCCTTCCCAGACCCTGGGAACATGCCAGAGAGCATGAGGGTTCACAGCTCTACCTGCCATTTAGAT  
 GACGACTGTGTGGCCGGACAGCTGGACATGCAGGGCAATGGGATTCGGACAGGACGCTGTGTACCCTATT  
 ACCATGGGGACTCCAAGACCTGCGAGGTGTGAGCCTGGTCCCGGTGGAGGATGGGACTTCTGAAAACCA  
 TTTTCTGGGTAAAATGGCCCCAAATTCACCATCCTCATCAAGAACAGCATCCACTATCCCAAGTTCAAG  
 TTCTCCAAGGGCAACATTGCAAGCCAGAAGAGTGACTACCTGAAGCACTGCACGTTTGATCAGGACTCTG  
 ATCCATACTGTCCCATCTTCAGGCTGGGCTTATTGTAGAGCAAGCAGGAGAGAAGTTCACAGAACTGGC  
 ACACAAGGGCGGTGCTATTGGGGTCATCATCAACTGGAAGTGTGACCTGGACTTGTCTGAATCAGAGTGC  
 AACCCCAATATTCTTTCCGGAGGCTCGACCCCAAGTATGACCCTGCCTTTCAGGCTACAACCTCAGGT  
 TTGCCAAATATTACAAGATAAACGGCACCAACCACCTCGAACTCTCATCAAAGCCTATGGGATTCGAAT  
 TGACGTTATTGTGCATGGACAGGACAGGAAATTCAGTCTCATTCCACCATCATCAATCTGGCCACTGCT  
 CTGACCTCCATCGGGTGGGCTCCTTTCTGTGACTGGATTTTGTAAACGTTTCAACAAAAACAAGC  
 TCTACAGCCATAAGAAGTTCGACAAGGTGGTGGACTCTTGACCAGCATATGGGACAAAGGCTCCTGT  
 CCCTGAGCCTTCCCAACAGGACTCCACATCCACGGACCCCAAGGTTTGGCCAACTTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001164833
<b>Insert Size:</b>	1251 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>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_001164833.1</a></u> , <u><a href="#">NP_001158305.1</a></u>
<b>RefSeq Size:</b>	1712 bp
<b>RefSeq ORF:</b>	1251 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 (2) lacks an alternate in-frame segment in the 3' coding region compared to variant 1. The encoded protein (isoform b) is shorter than isoform a.</p>