

## Product datasheet for **SC310439**

### **P2X2 (P2RX2) (NM\_012226) Human Untagged Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Product Name:</b>	P2X2 (P2RX2) (NM_012226) Human Untagged Clone
<b>Tag:</b>	Tag Free
<b>Symbol:</b>	P2RX2
<b>Synonyms:</b>	DFNA41; P2X2
<b>Vector:</b>	<u>pCMV6 series</u>
<b>Fully Sequenced ORF:</b>	>NCBI ORF sequence for NM_012226, the custom clone sequence may differ by one or more nucleotides ATGGCCGCGCCAGCCCAAGTACCCCGCGGGGCGACCGCCGCGCCTGGCCCGGGC TGCTGGTCCGCCCTCTGGGACTACGAGACGCCAAGGTGATCGTGGTACGTATTTCATCGT GCAGAAAAGCTACCAGGAGAGCGAGACGGGCCCGAGAGCTCCATCATCACAAGGTCAA GGGGATCACCACGTCCGAGCACAAAGTGTGGGACGTGGAGGAGTACGTGAAGCCCCCGA GGCCTGAGGACTGGGCGCTGTGTGCCCTATTACCAGGGGCCCTCAAGACCTGCGAGGTG TTCGGCTGGTGCCGGTGAAGATGGGGCCTCTGTGAGCAATTTCTGGGTACGATGGCC CCAAATTTCAACATCCTCATCAAGAACAGCATCCACTACCCCAAATTCACCTTCTCCAAG GGCAACATCGCCGACCGACAGACGGGTACCTGAAGCGCTGCACGTTCCACGAGGCTCC GACCTCTACTGCCCATCTTCAAGCTGGGCTTTATCGTGGAGAAGGCTGGGGAGAGCTTC ACAGAGCTCGCACACAAGGGTGGTGTGCATCGGGGTCAATTCAACTGGGACTGTGACCTG GACCTGCCTGCATCGGAGTGCAACCCCAAGTACTCCTTCCGGAGGCTTGACCCCAAGCAC GTGCCTGCCTCGTCAGGCTACAACCTCAGGTTTGCCAAATACTACAAGATCAATGGCACC ACCACCCGACGCTCATCAAGGCTACGGGATCCGCATTGACGTCATTGTGCATGGACAG GCCGGGAAGTTTCAGCCTGATCCACCATTATTAATCTGGCCACAGCTCTGACTTCCGTC GGGTGGGCTCCTTCTGTGCGACTGGATCTTGCTAACATTCATGAACAAAAACAAGGTC TACAGCCATAAGAAATTTGACAAGGTGTGTACGCCGAGCCACCCCTCAGGTAGCTGGCCT GTGACCCTTGCCCGTGTATTGGGCCAGGCCCTCCCGAACCCGGCCACCGCTCCGAGGAC CAGCACCCAGCCCTCCATCAGGCCAGGAGGGCCAACAAGGGGCAGAGTGTGGCCAGCC TTCCCGCCCTGCGGCCTTGCCCATCTCTGCCCTTCTGAGCAGATGGTGGACTCTCT GCCTCCGAGCCTGCCAAGCCTCCACACCCACAGACCCCAAAGGTTTGGCTCAACTCTGA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_012226
<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).



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<b>OTI Annotation:</b>	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.
<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>	<a href="#">NM_012226.3</a> , <a href="#">NP_036358.2</a>
<b>RefSeq Size:</b>	1614 bp
<b>RefSeq ORF:</b>	1200 bp
<b>Locus ID:</b>	22953
<b>UniProt ID:</b>	<a href="#">Q9UBL9</a>
<b>Cytogenetics:</b>	12q24.33
<b>Protein Families:</b>	Druggable Genome, Ion Channels: ATP Receptors, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	<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 (6) lacks an alternate in-frame segment in the 3' end and two alternate exons in the 5' end, that cause a frameshifts. The resulting isoform (I) has an alternate internal segment in the 5' end and and lacks an alternate in-frame segment in the 3' end compared to isoform D.</p>