

## Product datasheet for **SC125602**

### **P2X2 (P2RX2) (NM\_174873) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	P2X2 (P2RX2) (NM_174873) Human Untagged Clone
Tag:	Tag Free
Symbol:	P2X2
Synonyms:	DFNA41; P2X2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_174873, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGCCGCCAGCCCAAGTACCCCGCCGGGGCGACCGCCCGGCCTGGCCCGGGGCTGCTGGTCCG
CCCTCTGGGACTACGAGACGCCAAGGTGATCGTGGTGAGGAACCGGCCTGGGGTCTGTACCGCGC
CGTGCAGTGCTCATCTGCTCTACTTCGTGTGGTACGTATTCATCGTGCAGAAAAGTACCAGGAGAGC
GAGACGGGCCCGAGAGCTCCATCATCACCAAGGTCAAGGGGATCACCACGTCCGAGCACAAAGTGTGG
ACGTGGAGGAGTACGTGAAGCCCCCGAGGGGGGACGCTGTTTCCAGCATCATCACCAGGGTCGAGGCCAC
CCACTCCCAGACCCAGGGAACCTGCCCGAGAGCATAAGGGTCCACAACGCCACCTGCCTCTCCGACGCC
GACTGCGTGGCTGGGAGCTGGACATGCTGGGAAACGGCCTGAGGACTGGGCGCTGTGTGCCCTATTACC
AGGGGCCCTCCAAGACCTGCGAGGTGTTTCGGCTGGTGCCCGTGGGAAGATGGGGCCTCTGTAGCCAATT
TCTGGGTACGATGGCCCAAAATTCACCATCCTCATCAAGAACAGCATCCACTACCCCAAATTCACCTTC
TCCAAGGGCAACATCGCCGACCGCACAGACGGGTACCTGAAGCGCTGCACGTTCCACGAGGCCTCCGACC
TCTACTGCCCCATCTTCAAGCTGGGCTTATCGTGGAGAAGGCTGGGAGAGCTTACAGAGCTCGCACA
CAAGGGTGGTGTATCGGGGTCATTATCAACTGGGACTGTGACCTGGACCTGCCTGCATCGGAGTGAAC
CCCAAGTACTCCTCCGGAGGCTTGACCCCAAGCACGTGCCTGCCTCGTCAGGCTACAATTCAGGTTTG
CCAATACTACAAGATCAATGGCACCACCACCCGACGCTCATCAAGGCCTACGGGATCCGATTGACGT
CATTGTGCATGGACAGGCCGGGAAGTTCAGCCTGATCCACCATTAATCTGGCCACAGCTCTGACT
TCCGTCCGGGTGGGCTCCTTCTGTGCGACTGGATCTTGCTAACATTATGAACAAAAACAAGGTCTACA
GCCATAAGAAATTTGACAAGATGGTGGACTCCTGCCTCCGAGCCTGCCAAGCCTCCACACCCACAGA
CCCCAAAGGTTTGGCTCAACTCTGA
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Restriction Sites:	Please inquire
ACCN:	NM_174873



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<b>Insert Size:</b>	1550 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_174873.1</a></u> , <u><a href="#">NP_777362.1</a></u>
<b>RefSeq Size:</b>	1629 bp
<b>RefSeq ORF:</b>	1215 bp
<b>Locus ID:</b>	22953
<b>UniProt ID:</b>	<u><a href="#">Q9UBL9</a></u>
<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 (2) lacks two alternate in-frame segments in the 3' end compared to variant 4. The resulting isoform (B) has the same N- and C-termini but is shorter compared to isoform D.</p>