

Product datasheet for **SC310325**

P2X2 (P2RX2) (NM_170683) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2X2 (P2RX2) (NM_170683) Human Untagged Clone
Tag:	Tag Free
Symbol:	P2RX2
Synonyms:	DFNA41; P2X2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC310325 representing NM_170683.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCCCGCCAGCCCAAGTACCCCGCGGGGCGACCGCCCGGCCTGGCCCGGGCTGCTGGTCC
GCCCTCTGGGACTACGAGACGCCCAAGGTGATCGTGGTGGAGGAACCGGCCTGGGGTCTGTACCGC
GCCGTGCAGCTGCTCATCTGCTACTTCGTGTGGTACGTATTTCATCGTGCAGAAAAGCTACCAGGAG
AGCGAGACGGGCCCGAGAGCTCCATCATCACCAAGGTCAAGGGGATCACACGTCCGAGCACAAGTG
TGGGACGTGGAGGAGTACGTGAAGCCCCCGAGGGGGCAGCGTGTTCAGCATCATCACAGGGTCGAG
GCCACCCACTCCCAGACCCAGGGAACCTGCCCGAGAGCATAAGGGTCCACAACGCCACCTGCCTCTCC
GACGCCGACTGCGTGGCTGGGGAGCTGGACATGCTGGAAACGGCCTGAGGACTGGGCGCTGTGTGCC
TATTACCAGGGGCCCTCAAGACCTGCGAGGTGTTCCGGCTGGTCCCGGTGGAAGATGGGGCCTCTGTC
AGCCAATTTCTGGTACGATGGCCCAATTTCCACATCCTCATCAAGAACAGCATCCACTACCCAAA
TTCACCTTCTCCAAGGGCAACATCGCCGACCGCACAGACGGGTACCTGAAGCGCTGCACGTTCCACGAG
GCCTCCGACCTCTACTGCCCATCTTCAAGCTGGGCTTTATCGTGGAGAAGGCTGGGGAGAGCTTACA
GAGCTCGCACACAAGGGTGGTGTATCGGGTCATTATCAACTGGGACTGTGACCTGGACCTGCCTGCA
TCGGAGTGCAACCCCAAGTACTCCTTCCGGAGGCTTGACCCCAAGCACGTGCCTGCCTCGTACGGCTAC
AACTTCAGGTTTGCCAAATACTACAAGTCAATGGCACCACCACCCGACGCTCATCAAGGCCTACGGG
ATCCGCATTGACGTCATTGTGCATGGACAGGCCGGGAAGTTCAGCCTGATCCCACCATTATTAATCTG
GCCACAGCTCTGACTTCCGTCCGGGTGGTAAGGAACCTCTCTGGGGTCCCAGCGGTGCCGGGGTCC
ACCAGGCCCTTACACACCGGTCTCTGCTGGCCCCAGGGCTCCTTCTGTGCGACTGGATCTTGCTAACA
TTCATGAACAAAAACAAGGTCTACAGCCATAAGAAATTTGACAAGGTGTGTACGCCGAGCCACCCCTCA
GGTAGCTGGCCTGTGACCTTGCCCGTGTATTGGGCCAGGCCCTCCCGAACCCGGCCACCGCTCCGAG
GACCAGCACCCAGCCCTCCATCAGGCCAGGAGGCCAACAAGGGGCAGAGTGTGCCACGCTTCCCG
CCCCTGCGGCCTTGCCCATCTCTGCCCTTCTGAGCAGATGGTGGACACTCCTGCCTCCGAGCCTGCC
CAAGCCTCCACACCCACAGACCCCAAAGGTTTGGCTCAACTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- Plasmid Map:** □
- ACCN:** NM_170683
- Insert Size:** 1494 bp
- OTI Disclaimer:** 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).
- OTI Annotation:** 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.
- Components:** 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).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_170683.3
RefSeq Size:	1945 bp
RefSeq ORF:	1494 bp
Locus ID:	22953
UniProt ID:	Q9UBL9
Cytogenetics:	12q24.33
Protein Families:	Druggable Genome, Ion Channels: ATP Receptors, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction
MW:	54.5 kDa
Gene Summary:	<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 (4) encodes the longest isoform (D).</p>