

Product datasheet for **SC324305**

P2RX4 (NM_002560) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2RX4 (NM_002560) Human Untagged Clone
Tag:	Tag Free
Symbol:	P2RX4
Synonyms:	P2X4; P2X4R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002560.2
 GGACTGGGAGCGGGCGGCGGGCCATGGCGGGCTGCTGCGCCGCGCTGGCGGCCTTCCTG
 TTCGAGTACGACACGCCGCGCATCGTGCTCATCCGCAGCCGAAAGTGGGGCTCATGAAC
 CGCGCCGTGCAACTGCTCATCCTGGCCTACGTCATCGGGTGGGTGTTGTGTGGGAAAAG
 GGCTACCAGGAAACTGACTCCGTGGTCAGCTCCGTTACGACCAAGGTCAAGGGCGTGGCT
 GTGACCAACACTTCTAAACTTGGATTCCGGATCTGGGATGTGGCGGATTATGTGATACCA
 GCTCAGGAGGAAAACCTCCTCTTCGTGTCATGACCAACGTGATCCTCACCATGAACCAGACA
 CAGGGCCTGTGCCCGAGATCCAGATGCGACCACTGTGTGATAAATCAGATGCCAGCTGT
 ACTGCCGGCTCTGCCGGCACCCACAGCAACGGAGTCTCAACAGGCAGGTGCGTAGCTTTC
 AACGGGTCGCTCAAGACGTGTGAGGTGGCGGCCTGGTGCCCGGTGGAGGATGACACACAC
 GTGCCACAACCTGCTTTTTAAAGGCTGCAGAAAACCTCACTCTTTTGGTTAAGAACAAC
 ATCTGGTATCCCAAATTAATTTACGCAAGAGGAATATCCTTCCCAACATCACCCTACT
 TACCTCAAGTCGTGCATTTATGATGCTAAAACAGATCCCTTCTGCCCATATTCCGTCTT
 GGCAAAATAGTGGAGAACGCAGGACACGGTTTCCAGGACATGGCCGTGGAGGGAGGCATC
 ATGGGCATCCAGGTCAACTGGGACTGCAACCTGGACAGAGCCGCCTCCCTCTGCTTGCCC
 AGGTACTCCTTCCGCCGCTCGATACACGGGACGTTGAGCACAACGTATCTCCTGGCTAC
 AATTTTCAGGTTTGCCTAAGTACTACAGAGACCTGGCTGGCAACGAGCAGCGCACGCTCATC
 AAGGCCTATGGCATCCGCTTCGACATCATTGTGTTTGGGAAGGCAGGGAAATTTGACATC
 ATCCCCACTATGATCAACATCGGCTCTGGCCTGGCACTGCTAGGCATGGCGACCGTGGCTG
 TGTGACATCATAGTCTCTACTGCATGAAGAAAAGACTCTACTATCGGGAGAAGAAATAT
 AAATATGTGGAAGATTACGAGCAGGGTCTTGTCTAGTGAGCTGGACCAGTGAGGCCTACCC
 CACACCTGGGCTCTCCACAGCCCATCAAGAACAGAGAGGAGGAGGAGGAGAAATGGC
 CACCACATCACCCAGAGAAAATTTCTGGAATCTGATTGAGTCTCCACTCCACAAGCACTC
 AGGGTTCCCGCAGCAGCTCCTGTGTGTTGTGTGAGGATCTGTTTCCCACTCGGCCCAGG
 AGGTCAGCAGTCTGTTCTTGGCTGGGTCAACTCTGCTTTTCCCGAACCTGGGGTTGTGCG
 GGGGAGCGCTGGCCCGACGCAGTGGCACTGCTGTGGCTTTCAGGGCTGGAGCTGGCTTTG
 CTCAGAAGCCTCCTGTCTCCAGCTCTCTCCAGGACAGGCCAGTCTCTGAGGCACGGCG
 GCTCTGTTCAAGCACTTTATGCGGCAGGGGAGGCCGCCTGGCTGCAGTCACTAGACTTGT
 AGCAGGCCTGGGCTGCAGGCTTCCCCCGACCATTCCCTGCAGCCATGCGGCAGAGCTGG
 CATTTCTCCTCAGAGAAGCGCTGTGCTAAGGTGATCGAGGACCAGACATTAAGCGTGAT
 TTTCTTAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_002560
- 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_002560.2 , NP_002551.2
RefSeq Size:	2043 bp
RefSeq ORF:	1167 bp
Locus ID:	5025
UniProt ID:	Q99571
Cytogenetics:	12q24.31
Domains:	P2X_receptor
Protein Families:	Druggable Genome, Ion Channels: ATP Receptors, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction
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 with high calcium permeability. The main pharmacological distinction between the members of the purinoceptor family is the relative sensitivity to the antagonists suramin and PPADS. The product of this gene has the lowest sensitivity for these antagonists. Multiple alternatively spliced transcript variants, some protein-coding and some not protein-coding, have been found for this gene. [provided by RefSeq, Feb 2012]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the 5' coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1.</p> <p>Sequence Note: Translation provided for the transcript variants two and three is predicted. The start codon is the same as in the predominant transcript variant (1).</p>