

Product datasheet for SC122124

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC122124 sequence for NM_002560 edited (data generated by NextGen Sequencing)

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ATGGCGGGCTGCTGCGCCGCGCTGGCGGCCTTCCTGTTTCGAGTACGACACGCCGCGCATC
GTGCTCATCCGCAGCCGCAAAGTGGGGCTCATGAACCGCGCCGTGCAACTGCTCATCCTG
GCCTACGTCATCGGGTGGGTGTTTGTGTGGAAAAGGGCTACCAGGAACTGACTCCGTG
GTCAGCTCCGTTACGACCAAGGTCAAGGGCGTGGCTGTGACCAACTTCTAACTTGGAA
TTCCGGATCTGGGATGTGGCGGATTATGTGATACCAGCTCAGGAGGAAAACCTCCCTCTTC
GTCATGACCAACGTGATCCTCACCATGAACCAGACACAGGGCCTGTGCCCGAGATTCCA
GATGCGACCACTGTGTAAATCAGATGCCAGCTGTACTGCCGGCTCTGCCGGCACCCAC
AGCAACGGAGTCTCAACAGGCAGGTGCGTAGCTTTCAACGGGTCCGTCAAGACGTGTGAG
GTGGCGGCTGGTGCCCGTGGAGGATGACACACACGTGCCACAACCTGCTTTTTTAAAG
GCTGCAGAAAACCTCACTCTTTTGGTTAAGAACAACATCTGGTATCCCAAATTTAATTTT
AGCAAGAGGAATATCCTTCCCAACATCACCCTACTTACCTCAAGTCGTGCAATTTATGAT
GCTAAAACAGATCCCTTCTGCCCATATTCCTGTTGGCAAAATAGTGGGAAACGCAGGA
CACAGTTTCCAGGACATGGCCGTGGAGGGAGGCATCATGGGCATCCAGGTCAACTGGGAC
TGCAACCTGGACAGAGCCGCCTCCCTCTGCTTGCCAGGTAATCCTTCCGCCGCCTCGAT
ACACGGGACGTTGAGCACAACGTATCTCCTGGCTACAATTTGAGGTTTGCCAAGTACTAC
AGAGACCTGGCTGGCAACGAGCAGCGCACGCTCATCAAGGCCTATGGCATCCGTTTCGAC
ATCATTGTGTTTGGGAAGGCAGGAAAATTTGACATCATCCCCTACTGATCAACATCGGC
TCTGGCCTGGCACTGCTAGGCATGGCGACCGTGTGTGTGACATCATAGTCTCTACTGC
ATGAAGAAAAGACTCTACTATCGGGAGAAGAAATATAAATATGTGGAAGATTACGAGCAG
GGTCTTGCTAGTGAGCTGGACCAAGTGA

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Clone variation with respect to NM_002560.2
465 t=>c;954 c=>t



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002560 unedited TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCAGACCGACTAGG GGACTGGGAGCGGGCGGCCGGTTCATGGCGGGCTGCTGCGCCGCTGGCGGCCTTCCTG TTCGAGTACGACACGCCGCGCATCGTGCTATCCGCAGCCGAAAGTGGGGCTCATGAAC CGCGCCGTGCAACTGCTCATCTGGCCTACGTCATCGGGTGGGTGTTTGTGTGGGAAAAG GGCTACCAGGAAACTGACTCCGTGGTCAGCTCCGTTACGACCAAGGTCAAGGGCGTGGCT GTGACCAACTTCTAAACTTGGATTCCGGATCTGGGATGTGGCGGATTATGTGATACCA GCTCAGGAGGAAAACCTCCTCTTCGTATGACCAACGTGATCCTACCATGAACCAGACA CAGGGCCTGTGCCCGAGATTCCAGATGCGACCACTGTGTGATAAATCAGATGCCAGCTGT ACTGCCGGCTCTGCCGGCACCCACAGCAACGGAGTCTCAACAGGCAGGTGCGTAGCTTTC AACGGTCCGACAAGACGTGTGAGGTGGCGGCCTGGTGCCTGTGGCAGATGACACACAC GTGCCACAACCTGCTTTTTAAAGGCTGCAGAAAACCTCACTCTTTGTGGTTAACAAACA CATCTGGTATCCAAATGTAATTCAGGAAGAGGAGTATTCTTTCAACATCCCCACTAC TGACCTAAAGTCGTGCATTTTTGATGCTAAAACACATCCCTTCTCGCCATTATTCGGCC TGGCAACATAGTGAAAACGCAGAACAGTTTTCCAGACATGGCCGCGGAGGGAAGCCTT ATGGGCATCCACGCAACTTGGGACTGCAACCTGGACAAAAGCCGTCTCTTTTGGTTGCCA AG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002560 unedited CCGCGGCCGAATCNATAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTAAAAAAATCACGCTTAATGTCTGGGCCTCGATCACCTTAGCCCAGC CCTTTTTTGGAGAAAAATGCCAACTTCCCATGGCTTCAGGGAATGGGCGGGGGGAAA CCTGCACCCCAACCTGTACAAATTTAGTTTCTGGAACCAGGCGGCCTCCCTGGGGGA TAAATGCTTGAACAAACCCCTGCCTAAAAGGACTGGGCCTGTCTGGAAAAAGCTG GAAACCGGAGGCCTCTGAACAAAACCGGTTCCACCCCTGAAACCCCAATAGTGCCACCGT GCGTGGCCACCGCTCCCCCAAACCCCAAGGGCGGGGAAAAACCTAAGTCCCCCATCA AGAACAGACTGCTTCTCTTGTGGCGAGTGGGCAACCCCTCCCTGCCACCACTCCAAAG CACCCTTGGGGCACCTGTGTCTCCCGCTCGGCCCATCCCAATTCAAACAGCCTCT GCGAGAGTTGGGGCCCTTCCCCCTTCTCCTCTTTTTCTCCCCGGGCGCCTCCGT ATCCCCCTCCTCGGTCCCCCCCCCTTCTCCCCCGCTCACCCACATCTCCATACTA CTCACCAATTTCTCCTCCCCCACTTCCACTCTTTACCTCCCTCTCCACGCCCCT CCTTCCCAATCTCCCCGCCACCCTCCCTCCTCCCTCCCCCATTCCCTTTCCCT TTCGCCACCTCTATCCCGTGTCTTTTATCCATTCCCCCTTTTACCCTACCTATTCCC ACTCCACACTATTTGTCTCTTTACACCTCCTGTTACCCCCCTCCCTTTCTTTTGT AGCGTGTGACCCCCCTGCCCTTCCCCCTCTCT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002560
Insert Size:	1910 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).
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:	<u>NM_002560.2, NP_002551.2</u>
RefSeq Size:	2043 bp
RefSeq ORF:	1167 bp
Locus ID:	5025
UniProt ID:	<u>Q99571</u>
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>