

Product datasheet for SC118594

P2X1 (P2RX1) (NM_002558) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2X1 (P2RX1) (NM_002558) Human Untagged Clone
Tag:	Tag Free
Symbol:	P2RX1
Synonyms:	P2X1
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC118594 sequence for NM_002558 edited (data generated by NextGen Sequencing)

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ATGGCACGGCGGTTCCAGGAGGAGCTGGCCGCTTCTCTTCGAGTATGACACCCCCCGC
ATGGTGTGTTGCGTAATAAGAAGGTGGGCGTTATCTTCCGACTGATCCAGCTGGTGGTC
CTGGTCTACGTACCGGGTGGGTGTTTCTCTATGAGAAGGGCTACCAGACCTCGAGCGGC
CTCATCAGCAGTGTCTGTGAACTCAAGGGCCTGGCCGTGACCCAGCTCCCTGGCCTC
GGCCCCAGGTCTGGGATGTGGCTGACTACGTCTCCAGCCCAGGGGACAACCTCTTC
GTGGTCATGACCAATTTTCATCGTGACCCGAAGCAGACTCAAGGCTACTGCGCAGAGCAC
CCAGAAGGGGGCATATGCAAGGAAGACAGTGGCTGTACCCTGGGAAGGCCAAGAGGAAG
GCCAAGGCATCCGCACGGGCAAGTGTGTGGCCTTCAACGACACTGTGAAGACGTGTGAG
ATCTTTGGCTGGTGCCCCGTGGAGTGGATGACGACATCCCGCGCCCTGCCCTTCTCCGA
GAGGCCGAGAACTTCACTCTTTTCATCAAGAACAGCATCAGCTTCCACGCTTCAAGGTC
AACAGGGCAACCTGGTGGAGGAGTGAATGCTGCCACATGAAGACCTGCCTCTTTTAC
AAGACCTGCACCCCTGTGCCAGTCTTCCAGCTTGGCTACGTGGTGAAGAGTCAGGC
CAGAACTCAGCACCCCTGGCTGAGAAGGGTGGAGTGGTTGGCATCACCATCGACTGGCAC
TGTGACCTGGACTGGCACGTACGGCACTGCAGACCCATCTATGAGTTCCATGGGCTGTAC
GAAGAGAAAAATCTCTCCCAGGCTTCAACTTCAGTTTTGCCAGGCACTTTGTGGAGAAC
GGGACCAACTACCGTACCTCTTCAAGGTGTTTGGGATTCGCTTTGACATCCTGGTGGAC
GGCAAGGCCGGGAAGTTTACATCATCCCTACAATGACCACCATCGGCTCTGGAATTGGC
ATCTTTGGGGTGGCCACAGTTCTCTGTGACCTGCTGCTTTCACATCCTGCCTAAGAGG
CACTACTACAAGCAGAAGAAGTTCAAATACGCTGAGGACATGGGGCCAGGGGCGGCTGAG
CGTGACCTCGCAGCTACCAGCTCCACCCTGGGCCTGCAGGAGAACATGAGGACATCTGA

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Clone variation with respect to NM_002558.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002558 unedited CAGAAATTTGTAATACGAACTCACTATAGGGCGGCCGGAATTCGCACCAGGCCAAGAGC TGCTCTGATCACCCAGGGATTCTCTCCAACCAAGTGCCTCCAGCTGACCTCTGGCTC CTGTCCTCTGGCTCCACCTGCACCGCCCTGCTCTTCTAAGGGGCCAGGAAGCCCCAGA AGCTCTACCATCGACGTGGTGGTGGCACCCGGCTCACCTGAGAGCAGAGGCCGTGCAG GGGGCTCAGTTCTGAGCCCCAGCCGGCCACCATTGGCACGGCGGTTCCAGGAGGAGCTGG CCGCTTCTCTTCGAGTATGACACCCCGCATGGTGTGGTGGTAAATAAGAAGGTGG GGTTATCTTCCGACTGATCCAGCTGGTGGTCTGGTCTACGTCAATCGGGTGGGGTGT CTCTATGAGAAGGGCTACCAGACCTCGAGCGGCCTCATCAGCAGTGTCTGTGAAACTC AAGGGGCTGGCCGTGACCCAGCTCCCTGGCTCGGCCCCANGTCTGGGGATGGTGGCT GACTACGTCTTCCAGCCAGGGGACAACCTCTNCTGGTGTGATGACCAATTTTCATCGT GACCCCGAAGCAGACTCAAGGCTACTGCGCAGAGCACCCANAAGGGGGCATATGCAAGG AAGACAGTGGCTGTACCCTGNGAAGGCCAGNAGGAAGGCCAAGGCATCCGCCGGGCAA GTTGTGTGGCCTTACGACACTGTGGAGACGTGTGAGATCTTTGGCTGTGCCCCGNGNA GGTGGATGACGACATCCCGCCCTGCCCTTCTCCGAGAGGCCGAGAACTCACTTTTT CATCAAGACAGCATCAGCTTTCCAGCTTCAAGTCAACAGCGCACCTGGGGAAGGAGGGG AATGCTGGCCAATGAAGACTGCCTTTTTACAAGACTGCACCCCTGTGCCAGCCTCACT TGCTACGTGGCCAGAGTCAGCCAACTCACACCTGTCCGAA
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002558 unedited CGGGGGGAACAGACCAGACNTCTTCCNNCNCCTCAATCGTAGNACCNCGGNNCCGC ATTTTANGATCGAGTT TTTTTTGGGCCAATCCCTTTATTGGACCCACCCTCGGTTTCCCAAAACTTTTGTTT AAAAAAAACCAGGCAGCCTTGGGAGCTGGGGTGAACCACAGGCAGGGGCCAAGATT TGGGTGGGGTCCACCCCAACCCAGGGAGCTGAGTAAGGTTTATGGGTGGGAGGGT GTCTGGCTGGCACACTTGGAAAAAACCTTTTCTTTGGGGGGACATGGGCCGACC ATGTGGGGGGCTTGGGGGGGAAAAGTGGGTAAGGGTGGGTTTGCAGGGCCAACT GTTACATACACAATGGGGAAGGAAGCCTGGTGCATTTAAGGGGGGGTACAACGGGGT GGGCATGAAAAACTGGGGGGGACGTGAGCACCCAAAACACATGCTGAAGGGGGTGA ACCTGTTCAATGGTTGTCCCTTAACAGGAAATGGCGGGCTCAGGGTTAATCTGACCCCC CTTAAGGGCTTAAATCAAAAAGTTCGAGGACGGCCCTTTTAAAATTAAGCCCCAAAG GCCCCGGGGGGTGGCCATTACCACAAAAAACGGGCACCCCTTGGAACTTTTGGGTTA GGAAGGCTGGGGGGGGGCCACGAGACTTGCATTTGCCAAAAATTTCCCCAGGGG AAACCAAGGGGCACGGAAAAACAAGGCTTTAAAACAGGGCGTGGTTAATAAAAAA CTTTTTTTGTAAGAAAGAAAAAGCNCNCCAGACTCGTTACCATGTGGGGCCACTCAC CCCCCTTTATTTCTCGCCCTTGAATGGGTTTTCTCCCCGAGGAAAAGAAATT TGGGGTCCCTTTTATTTATTTACGTTAAATTTAACCCCTGGGTTATGCGCGG CCCACGCGGAG
Restriction Sites:	ECORI-NOT
ACCN:	NM_002558
Insert Size:	2870 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).
RefSeq:	NM_002558.2 , NP_002549.1
RefSeq Size:	2910 bp

RefSeq ORF:	1200 bp
Locus ID:	5023
UniProt ID:	P51575
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 protein encoded by this gene belongs to the P2X family of G-protein-coupled receptors. These proteins can form homo- and heterotimers and function as ATP-gated ion channels and mediate rapid and selective permeability to cations. This protein is primarily localized to smooth muscle where it binds ATP and mediates synaptic transmission between neurons and from neurons to smooth muscle and may be responsible for sympathetic vasoconstriction in small arteries, arterioles and vas deferens. Mouse studies suggest that this receptor is essential for normal male reproductive function. This protein may also be involved in promoting apoptosis. [provided by RefSeq, Jun 2013]</p>