

Product datasheet for SC123980

P2X3 (P2RX3) (NM_002559) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | P2X3 (P2RX3) (NM_002559) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | P2X3 |
| Synonyms: | P2X3 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |

Fully Sequenced ORF: >OriGene sequence for NM_002559 edited
 CCTGTCCTGTAGGACCTCCCTCTCCTGAGGCCACCACTGGGCCCCCTTCTGAGTGTCCCC
 TGAGCACTCTCTCAGCATGAATGCATATCCGACTTCTTACCTATGAGACCACCAAGTC
 GGTGGTTGTGAAGAGCTGGACCATCGGGATCATCAACCGAGTAGTTCAGCTTCTGATCAT
 CTCTACTTTGTAGGGTGGGTTTTCTTGACGAGAAGGCTTACCAGGTACGGGACACAGC
 CATTGAGTCTCGGTGGTAACCAAGGTGAAGGGCTCCGGACTCTACGCCAACAGAGTCAT
 GGATGTGTCTGATTACGTGACGCCACCTCAGGGCACCTCGGTCTTTGTCATCATACCAA
 GATGATTGTTACTGAAAATCAGATGCAAGGATTCTGCCCAGAGAGTGAGGAGAAAACCG
 CTGTGTATCAGACAGCCAGTCCGGGCTGAGCGCTTGCCAGGTGGGGGATCCTCACTGG
 CCGCTCGCTGAACTACAGCTCTGTGCTCCGGACCTGTGAGATCCAGGGCTGGTCCCCAC
 GGAGGTGGACACAGTGGAAACGCCCATCATGATGGAAGCTGAGAACTTCACTATTTTCAT
 CAAGAACAGCATCCGTTTCCCCCTTTCAACTTTGAGAAGGGAAACCTCCTTCCCAACCT
 GACAGCCAGGGACATGAAGACCTGCCGCTTCCACCCGGACAAGGACCCTTCTGCCCCAT
 CTTGCGGGTAGGGGACGTGGTCAAGTTTGCAGGGCAGGATTTTGCCAACTGGCGCGCAC
 GGGGGGAGTTCTGGGCATTAAGATCGGCTGGGTGTGCGACTTGGACAAGGCTGGGACCA
 GTGCATCCCCAAATACTCCTTCAACCCGGCTCGACAGCGTTTCTGAGAAAAGCAGCGTGC
 CCCAGGCTACAACCTCAGGTTTGCCTCAAGTACTACAAAATGGAAAATGGCAGTGAGTACC
 CACCTCCTGAAGGCTTTTGGCATCCGCTTCGACGTGCTGGTATACGGGAATGCTGGCAA
 GTTCAACATCATCCCACCATCATCAGCTCTGTGGCGGCTTTACTTCTGTGGAGTGGG
 AACTGTTCTCTGTGACATCATCCTGCTCAACTTCTCAAGGGGGCCGACAGTACAAAGC
 CAAGAAGTTTGAAGAGGTGAATGAGACTACACTGAAAATCGCGGCTTTGACCAACCCAGT
 GTACCCAGCGACCAGACCACAGTGGAGAAGCAGTCCACCGATTCCGGGGCCTTCTCCAT
 AGGCCACTAGGGCCTCTTCCAGGGCCCCACACTCACAAGGCTCCAGGCCTCCCCACAG
 AGGACCTGCCTGAGCAAGGGGGCATGGGACCTGTCTGTAGGACCTCCCTCTCCTGAGG
 CCACCACTGGGCCCTTCTGAGTGTCCCCTGAGCACTCTCTCAGCATGAATGCATATC
 CGACTTCTCACCTATGAGACCACCAAGTCGGTGGTTGTGAAGAGCTGGACCATCGGGAT
 CATCAACCGAGTAGTTCAGCTTCTGATCATCTCCTACTTTGTAGGGTGGGTTTTCTTGCA



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CGAGAAGGCTTACCAGGTACGGGACACAGCCATTGAGTCCTCGGTGGTAACCAAGGTGAA
GGGCTCCGGACTCTACGCCAACAGATCATGGATGTGTCTGATTACGTGACGCCACCTCA
GGGCACCTCGGTCTTTGTATCATACCAAGATGATTGTTACTGAAAAATCAGATGCAAGG
ATTCTGCCAGAGAGTGAGGAGAAAATACCGCTGTGTATCAGACAGCCAGTGCGGGCCTGA
GCGCTTGCCAGGTGGGGGATCCTCACTGGCCGCTGCGTGAACACAGCTCTGTGCTCCG
GACCTGTGAGATCCAGGGCTGGTCCCCACGGAGGTGGACACAGTGGAACGCCCATCAT
GATGGAAGCTGAGAAGCTCACTATTTTCATCAAGAACAGCATCCGTTTTCCCCTTTCAA
CTTTGAGAAGGGAAACCTCCTTCCCAACCTGACAGCCAGGGACATGAAGACCTGCCGCTT
CCACCCGGACAAGGACCTTTTCTGCCCATCTTTCGGGTAGGGGACGTGGTCAAGTTTGC
GGGGCAGGATTTTGC AAACTGGCGCGCACGGGGGAGTTCTGGGCATTAAGATCGGCTG
GGTGTGCGACTTGGACAAGGCTGGGACCAGTGCATCCCCAAATACTCCTTACCCGGCT
CGACAGCGTTTCTGAGAAAAGCAGCGTGTCCCAGGCTACAACTCAGGTTTGC AAAGTA
CTACAAAATGGAAAATGGCAGTGAGTACCGCACCTCCTGAAGGCTTTTGGCATCCGCTT
CGACGTGTGGTATACGGGAATGCTGGCAAGTTCAACATCATCCCACCATCATCAGCTC
TGTGGCGCCTTACTTCTGTGGGAGTGGGAAGTCTTCTGTGACATCATCCTGCTCAA
CTTCTCAAGGGGCGGACCAGTACAAAGCCAAGAAGTTTGAGGAGGTGAATGAGACTAC
ACTGAAAATCGCGGCTTTGACCAACCCAGTGTACCCAGCGACCAGACCAGTGGAGAA
GCAGTCCACCGATTTCGGGGCCTTCTCCATAGGCCACTAGGGCCTTTTCCAGGGCCCCA
CACTCACAAAGGCTCCAGGCCTCCCCACAGAGGACCCTGCCTGAGCAAGGGGGCATGGGA
CCTGTCTGTAGGACCTCCCTCTCTGAGGCCACCCTGGGCCCTTCTGAGTGTCCCC
TGAGCACTCTCTCAGCATGAACTGCATATCCGACTTCTTCACTATGAGACCACCAAGTC
GGTGGTTGTGAAGAGCTGGACCATCGGGATCATCAACCGAGTAGTTCAGCTTCTGATCAT
CTCCTACTTTGTAGGGTGGTTTTCTTGCACGAGAAGGCTTACCAGGTACGGGACAGC
CATTGAGTCTCGGTGGTAACCAAGGTGAAGGGCTCCGGACTCTACGCCAACAGATCAT
GGATGTGTCTGATTACGTGACGCCACCTCAGGGCACCTCGGTCTTTGTCATCATACCAA
GATGATTGTTACTGAAAATCAGATGCAAGGATTCTGCCAGAGAGTGAGGAGAAAATACCG
CTGTGTATCAGACAGCCAGTGCGGGCCTGAGCGCTTGCCAGGTGGGGGATCCTCACTGG
CCGCTGCGTGAACACAGCTCTGTGCTCCGGACCTGTGAGATCCAGGGCTGGTCCCCAC
GGAGGTGGACACAGTGGAACGCCCATCATGATGGAAGCTGAGAAGTCACTATTTTCAT
CAAGAACAGCATCCGTTTTCCCCTTTCAACTTTGAGAAGGGAAACCTCCTTCCCAACCT
GACAGCCAGGGACATGAAGACCTGCCGCTTCCACCCGGACAAGGACCCTTTCTGCCCAT
CTTGCGGGTAGGGGACGTGGTCAAGTTTGC GGCGCAGGATTTTGCCAAACTGGCGCGCAC
GGGGGGAGTTCTGGGCATTAAGATCGGCTGGGTGTGCGACTTGGACAAGGCTGGGACCA
GTGCATCCCCAAATACTCCTTACCCGGCTCGACAGCGTTTCTGAGAAAAGCAGCGTGTG
CCCAGGCTACAACCTCAGGTTTGC AAAGTACTACAAAATGGAAAATGGCAGTGAGTACCG
CACCTCCTGAAGGCTTTTGGCATCCGCTTTCGACGTGCTGGTATACGGGAATGCTGGCAA
GTTCAACATCATCCCACCATCATCAGCTCTGTGGCGCCTTACTTCTGTGGGAGTGGG
AACTGTTCTCTGTGACATCATCTGCTCAACTTCTCAAGGGGGCGGACCAGTACAAAGC
CAAGAAGTTTGGAGAGTGAATGAGACTACACTGAAAATCGCGGCTTTGACCAACCCAGT
GTACCCACGCGACCAGACCAGTGGAGAAGCAGTCCACCGATTTCGGGGGCTTCTCCAT
AGGCCACTAGGGCCTTTTCCAGGGCCCCACACTCACAAAGGCTCCAGGCCTCCCCACAG
AGGACCCTGCCTGAGCAAGGGGGCATGGGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002559 unedited
 GAATACGACAGGCTATAGGGCGGCCGGAATTCGGCACGAGCANGAGCCNANAATCTCAC
 TAGGATTGCATGGCTTAAAGGGACAGGCTCCCCATTCTCCAACCCCTCTAAGCTGCCCC
 CTCCAGGTCGTGATCTCGTCTCCCTGTCTGTAGGACCTCCCTCTCTGAGGCCACCACT
 GGGCCCCCTTCTGAGTGTCCCCTGAGCACTCTCTCAGCATGAAGTGCATATCCGACTTCT
 TCACCTATGAGACCACCAAGTCGGTGGTTGTGAAGAGCTGGACCATCGGGATCATCAACC
 GAGTAGTTCAGCTTCTGATCATCTCCTACTTTGTAGGGTGGTTTTCTTGACGAGAAGG
 CTTACCAGGTACGGGACACAGCATTGAGTCTCGGTGGTAACCAAGGTGAAGGGCTCCG
 GACTCTACGCCAACAGAGTCATGGATGTGTCTGATTACGTGACGCCACCTCAGGGCACCT
 CGGTCTTTGTATCATCACCAAGATGATTGTTACTGAAAATCAGATGCAAGGATTCTGCC
 CAGAGAGTGAGGAGAAATACCGCTGTGTATCAGACAGCCAGTGCGGCCCTGAGCGTTGC
 CAGGTGGNGGGATCCTCACTGGCCGCTGCGTGAAGTACAGCTCTGTGCTCCGGACCTGTG
 AGATCCCAGGCTGGTCCCCACCGAAGTGGACACAGTTNAAACGCCCATCATGATTGGAG
 CTGGAACTTTCTATTTTTATTAACAAACAGTATCGTTCCCTTTTAAATTGAGAAGGAA
 ACCTCTTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002559 unedited
 TGTACCTGGAGGCACTGGTTGGTCAAAGCCGCGATTTTCAGTGTNGNNNNNTTACCTC
 CTCAAACCTTCTTGCTTTGTAAGTGGTTCGCCCCCTTGAGGAAGTTGAGCAGGATGATGTC
 ACAGAGAACAGTCCCCTCCACAGAAGTAAAGGCCGCCACAGAGCTGATGATGGTGGG
 GATGATGTTGAACCTGCCAGCATTCCCCTATACCAGCACGTCGAAGCGGATGCCAAAAGC
 CTTCAGGAGGGTGCCTACTCACTGCCATTTTCCATTTTGTAGTACTTGGCAAACCTGAA
 GTTGTAGCCTGGGGACACGCTGCTTTTCTCAGAAACGCTGTGAGCCGGGTGAAGGAGTA
 TTTGGGATGCACTGGTCCCAGGCCCTTGTCCAAGTCGCACACCCAGCCGATCTTAATGCC
 CAGAACTCCCCCGTGCAGCCAGTTTGGCAAATCCTGCCCGCAAACCTGACCACGTC
 CCCTACCCGCAAGATGGGGCAGAAAGGTCCTTGTCCGGGTGGAAGCGGCAGGCTTCAT
 TGCCCTGGCTGTGAGTTGGGAAGGAGGTTCCCTTCTCAAAGTTGAAGAGGGGGAAACG
 GATGCTGTTCTTGATGAAAATAGTGAAGTTCTCAGCTTCCATCATGATGGGCGTTTCCAC
 TGTGTCCACCTCCGTGGGGCACCAGCCCTGGATCTCACAGGTCCAGAGCACAGAGCTGTA
 GTTCACGCAGCGCCAGTGAGGATCCNCCACCTGCAGCGCTCAGCCCGCACTGTGTCT
 GATCACAGCGTC

Restriction Sites:

Please inquire

ACCN:

NM_002559

Insert Size:

3800 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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| 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_002559.2 , NP_002550.2 |
| RefSeq Size: | 1349 bp |
| RefSeq ORF: | 1194 bp |
| Locus ID: | 5024 |
| UniProt ID: | P56373 |
| Cytogenetics: | 11q12.1 |
| Protein Families: | Druggable Genome, Ion Channels: ATP Receptors, Transmembrane |
| Protein Pathways: | Calcium signaling pathway, Neuroactive ligand-receptor interaction |
| Gene Summary: | This gene encodes a member of the P2X purinergic receptor (purinoceptor) gene family which includes seven members (P2RX1 - P2RX7). P2X purinoceptors are a family of cation-permeable, ligand-gated ion channels that open in response to the binding of extracellular adenosine 5'-triphosphate (ATP). The encoded protein is a subunit of the trimeric P2X3 receptor ion channel which is expressed by sensory or autonomic neurons. A deficiency of the orthologous protein in mice is associated with reduced pain-related behavior and urinary bladder hyporeflexia. [provided by RefSeq, Aug 2017] |