

Product datasheet for **MR227219**

P2rx7 (NM_001038839) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2rx7 (NM_001038839) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P2rx7
Synonyms:	A1467586; P2X(7); P2X7R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227219 representing NM_001038839
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGCTTGCTGCAGCTGGAACGATGCTTGCAGTATGAGACAAACAAAGTCACCCGGATCCAGAGCA
 CGAATTATGGCACCGTCAAGTGGGTCTTGACATGATCGTCTTTTCTACATTAGCTTTGCTTTGGTGAG
 CGATAAGCTGTACCAGCGGAAAGAGCCTGTTATCAGCTCCGTGCACACCAAGGTCAAAGGCATAGCAGAG
 GTGACGGAGAATGTCACAGAGGGTGGGGTGACGAAGTTAGGACACAGCATCTTTGACACTGCAGACTACA
 CCTTCCCTTTCAGGGGAACTATTCTTTGTCATGACAACTATGTCAAGTCAGAAGGCCAAGTGCAGAC
 GCTGTGCTCCTGAGTATCCAGGCGCGGTGCACAGTGTCTTCTGACCGCGGTGTAAAAAGGGTGGATG
 GACCCACAGAGCAAAGGAATCCAGACTGGCAGGTGTGTTCCATATGACAAGACAAGGAAGACCTGTGAAG
 TCTCTGCCTGGTGTCTACTGAGGAGGAGAAAGAAGTCCCCGACCTGCCTCTTGAGGAGCGCCGAAAA
 CTTCCCGTACTCATCAAGAATAATATCCACTTCCCCGGCCAACTATACCACGAGAAACATCTTGCCA
 ACTATGAACGGCTCTGTACCTTTCACAAGACTTGGGACCCTCAGTGTTCCATCTCCGACTAGGGGACA
 TCTCCAGGAAGCAGGAGAGAATTTACAGAGGTGGCAGTTCAGGGAGGAATCATGGGTATCGAGATCTA
 CTGGGATTGCAACCTAGACAGCTGGTCCCACACTGCCGACCCAGGTACAGCTTCCGCCCGCTGGATGAC
 AAGAACACGGATGAGTCTTCGTCGCCGGCTACAACCTCAGATATGCCAAGTACTATAAGGAGAACAATG
 TGGAAAAGCGGACGTTGATCAAAGCCTTCGGCATCCGTTTTGACATCCTGGTTTTCGGCACTGGAGGAAA
 ATTTGACATCATCCAGCTGGTTGATACATTGGATCCACCCTGTCCTACTTTGGCTTGGCCACTGTGTGC
 ATTGACTTGCTCATCAACACATACTCCAGTGCTTCTGCAGGTGGGGGTTTACCCTACTGTAAGTGCT
 GTGAGCCCTGCACAGTGAACGAGTATTACTACAGAAAGAAGTGTGAGTCCATCATGGAACCCAAGCCGAC
 GTTGAAGTATGTGTCCTTTGTCGACGAGCCGACATTTCGATGGTGGACCAGCAGCTGCTGGGAAAAGT
 CTGCAAGTTGTCAAAGGCCAAGAAGTTCCAACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227219 representing NM_001038839
 Red=Cloning site Green=Tags(s)

MPACCSWNDVLQYETNKVTRIQSTNYGTVKWVLHMIVFSYISFALVSDKLYQRKEPVISSVHTKVKGIAE
 VTEENVTEGGVTKLGHSIFDTADYTFPLQGNSFFVMTNIVKSEGQVQTLCPYPRRGAQCSSDRRCKKGM
 DPQSKGIQTGRCPYDKTRKTCEVSAWCPTEEKEAPRALLRSAENFTVLKNNIHFPGHNYTTRNILP
 TMNGSCTFHKTWDPQCSIFRLGDIHQEAGENFTEVAVQGGIMGIEIYWDCNLDWSHHCRPRYSFRRLDD
 KNTDESFPVPGYNFRYAKYYKENVKRTLKAFGIRFDILVFGTGGKFDIIQLVVIYIGSTLSYFGLATVC
 IDLLINTYSSAFCRSGVYPYCKCCEPCTVNEYYYRKKCESIMEPKPTLKYVSFVDEPHIRMVDQQLLGS
 LQVVKGQEVPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9031_b07.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001038839

ORF Size: 1293 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:**
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_001038839.3](#)

RefSeq Size: 2563 bp

RefSeq ORF: 1296 bp

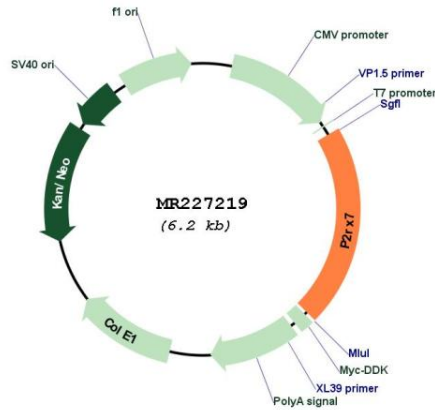
Locus ID: 18439

Cytogenetics: 5 F

MW: 49.8 kDa

Gene Summary:

Receptor for ATP that acts as a ligand-gated ion channel. Responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules. Could function in both fast synaptic transmission and the ATP-mediated lysis of antigen-presenting cells. In the absence of its natural ligand, ATP, functions as a scavenger receptor in the recognition and engulfment of apoptotic cells.[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MR227219