

Product datasheet for **MR227216**

P2rx7 (NM_011027) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | P2rx7 (NM_011027) 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:

>MR227216 representing NM_011027
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGCTTGCAGCTGGAACGATGCTTGCAGTATGAGACAAACAAAGTCACCCGGATCCAGAGCA
 CGAATTATGGCACCGTCAAGTGGGTCTTGCACATGATCGTCTTTTCTACATTAGCTTTGCTTTGGTGAG
 CGATAAGCTGTACCAGCGGAAAGAGCCTGTTATCAGCTCCGTGCACACCAAGGTCAAAGGCATAGCAGAG
 GTGACGGAGAATGTCACAGAGGGTGGGGTACGAAGTTAGGACACAGCATCTTTGACACTGCAGACTACA
 CCTTCCCTTTCAGGGGAACTATTCTTTGTCATGACAACTATGTCAAGTCAGAAGGCCAAGTGCAGAC
 GCTGTGCTCCTGAGTATCCAGGCGCGGTGCACAGTGTCTTCTGACCGCGCTTGTAAAAAGGGTGGATG
 GACCCACAGAGCAAAGGAATCCAGACTGGCAGGTGTGTTCCATATGACAAGACAAGGAAGACCTGTGAAG
 TCTCTGCCTGGTGTCTACTGAGGAGGAGAAAGAAGTCCCCGACCTGCACCTTTGAGGAGCGCCGAAAA
 CTTCCCGTACTCATCAAGAATAATATCCACTTCCCCGGCCAACTATACCACGAGAAACATCTTGCCA
 ACTATGAACGGCTCTTGTACCTTTCACAAGACTTGGGACCTCAGTGTTCCATCTCCGACTAGGGGACA
 TCTTCCAGGAAGCAGGAGAGAATTTACAGAGGTGGCAGTTCAGGGAGGAATCATGGGTATCGAGATCTA
 CTGGGATTGCAACCTAGACAGCTGGTCCCATCACTGCCGACCCAGGTACAGCTTCCGCCCGCTGGATGAC
 AAGAACACGGATGAGTCTTCGTCGCCGGCTACAACCTCAGATATGCCAAGTACTATAAGGAGAACAATG
 TGGAAAAGCGGACGTTGATCAAAGCCTTCGGCATCCGTTTTGACATCCTGGTTTTCGGCACTGGAGGAAA
 ATTTGACATCATCCAGCTGGTTGATACATTGGATCCACCCTGTCCTACTTTGGCTTGGCCACTGTGTGC
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 GTTGAAGTATGTGTCCTTTGTCGACGAGCGCACATTTCGATGGTGGACCAGCAGCTGCTTGGGAAAAGT
 CTGCAAGTTGTCAAAGGCCAAGAAGTTCCAAGACCCAGATGGACTTCTCCGACCTGTCTAGGCTGTCCC
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 CCCTAAGTCCGGGACAGCCCGAGTTGGTGGCAGTGTGAAATTCCTCCCGTCTCGCTACCGGAGCAA
 CGCAGGGCCCTGGAGGAGCTGTGCTGCCGAGGAAGCCGGGGCGGTGCATCACCACCTCCAAGCTTTCC
 ATAAGCTCGTGTGTCCGAGACACCCTGCAGCTCCTCCTGCTTACCAGGATCCCTTGTGGTGTGGG
 GGAAGAGGCCACCAACAGCAGGCTGCGACACCGTCTTACAGGTGCTATGCCACCTGGCGCTTCGGCTCC
 CAGGACATGGCCGACTTTGCCATTCTGCCAGCTGTTGCCGCTGGAGGATCCGGAAGGAGTCCCCAAGA
 CCGAGGGCAGTATAGTGCTTCAAGTATCCCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227216 representing NM_011027
 Red=Cloning site Green=Tags(s)

MPACCSWNDVLQYETNKVTRIQTSTNYGTVKWLHMIIVFSYISFALVSDKLYQRKEPVISSVHTKVKGIAE
 VTEENVTEGGVTKLGHSIFDTADYTFPLQNSFFVMTNIVKSEGQVQTLCPYPRRGAQCSSDRRCKKGM
 DPQSKGIQTGRCVPYDKTRKTCEVSAWCPTEEEKEAPRPALLRSAENFTVLKNNIHFPGHNYTTRNILP
 TMNGSCTFHKTWDPOCSIFRLGDIHQEAGENFTEVAVQGGIMGIEIYWDCNLDSSWHCRPRYSFRRLDD
 KNTDESFPVPGYNFRYAKYYKENVKRTLKAFGIRFDILVFGTGGKFDIIQLVVIYIGSTLSYFGLATVC
 IDLLINTYSSAFCRSGVYPYCKCCEPCTVNEYYYRKKCESIMEPKPTLKYVSFVDEPHIRMVDQQLGKS
 LQVYKQEVPRPQMDFSLSLHDSPLTPGQSEIQLLHEEVAPKSGDPSWCQCGNCLPSRLPEQ
 RRAL EELCCRRKPGRCITTSKLFHKLVL SRDTLQLLLL YQDPLLVLGEEATNSRLRHRAYRCYATWRFSG
 QDMADFAILPSCCRWRIRKEFPKTEGQYSGFKYPY

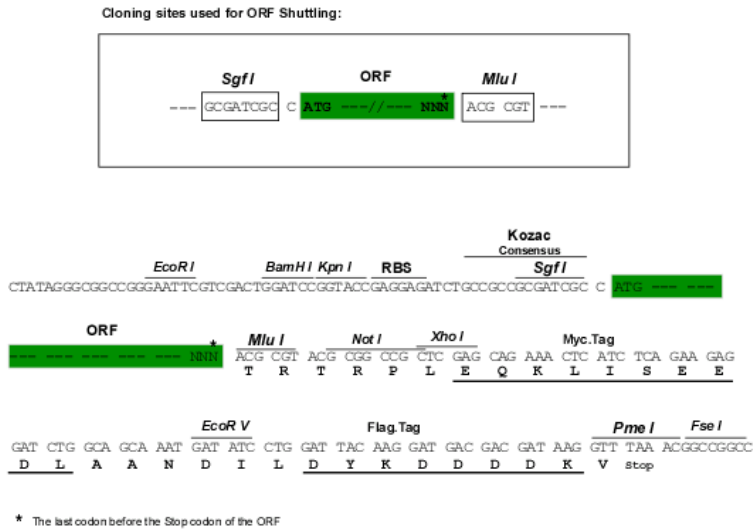
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1451_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011027

ORF Size: 1785 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_011027.4](#)

RefSeq Size: 4931 bp

RefSeq ORF: 1788 bp

Locus ID: 18439

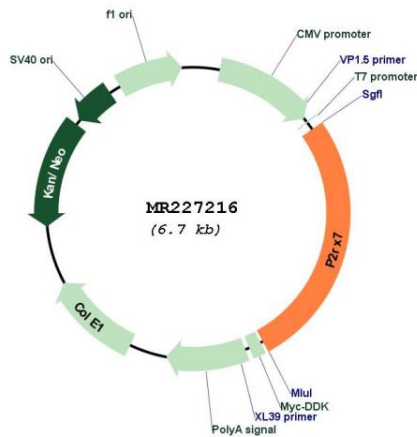
UniProt ID: Q9Z1M0

Cytogenetics: 5 F

MW: 68.8 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 MR227216