

Product datasheet for **MG227216**

P2rx7 (NM_011027) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2rx7 (NM_011027) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P2rx7
Synonyms:	A1467586; P2X(7); P2X7R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227216 representing NM_011027
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCGGCTTGCAGCTGGAACGATGCTTGCAGTATGAGACAAACAAAGTCACCCGGATCCAGAGCA
 CGAATTATGGCACCGTCAAGTGGTCTTGACATGATCGTCTTTTCTACATTAGCTTTGCTTTGGTGAG
 CGATAAGCTGTACCAGCGGAAAGAGCCTGTTATCAGCTCCGTGCACACCAAGGTCAAAGGCATAGCAGAG
 GTGACGGAGAATGTCACAGAGGGTGGGGTACGAAGTTAGGACACAGCATCTTTGACACTGCAGACTACA
 CCTTCCCTTTCAGGGGAACTATTCTTTGTCATGACAACTATGTCAAGTCAGAAGGCCAAGTGCAGAC
 GCTGTGCTCCTGAGTATCCAGGCGCGGTGCACAGTGTCTTCTGACCGCGCTTGTAAAAAGGGTGGATG
 GACCCACAGAGCAAAGGAATCCAGACTGGCAGGTGTGTTCCATATGACAAGACAAGGAAGACCTGTGAAG
 TCTCTGCCTGGTGTCTACTGAGGAGGAGAAAGAAGTCCCCGACCTGCCTCTTGAGGAGCGCCGAAAA
 CTTCCCGTACTCATCAAGAATAATCCACTTCCCCGGCCAACTATACCACGAGAAACATCTTGCCA
 ACTATGAACGGCTCTGTACCTTCCACAAGACTTGGGACCTCAGTGTCCATCTCCGACTAGGGGACA
 TCTTCCAGGAAGCAGGAGAGAATTTACAGAGGTGGCAGTTCAGGGAGGAATCATGGGTATCGAGATCTA
 CTGGGATTGCAACCTAGACAGCTGGTCCCATCACTGCCGACCCAGGTACAGCTTCCGCCCGCTGGATGAC
 AAGAACACGGATGAGTCTTCGTCGCCGGCTACAACCTCAGATATGCCAAGTACTATAAGGAGAACAATG
 TGGAAAAGCGGACGTTGATCAAAGCCTTCGGCATCCGTTTTGACATCCTGGTTTTCGGCACTGGAGGAAA
 ATTTGACATCATCCAGCTGGTTGATACATTGGATCCACCCTGTCTACTTTGGCTTGGCCACTGTGTGC
 ATTGACTTGCTCATCAACACATACTCCAGTGTCTTCTGCAGGTGCGGGGTTTACCCTACTGTAAGTGT
 GTGAGCCCTGCACAGTGAACGAGTATTACTACAGAAAGAAGTGTGAGTCCATCATGGAACCCAAGCCGAC
 GTTGAAGTATGTGTCCTTTGTCGACGAGCGCACATTTCGATGGTGGACCAGCAGCTGCTTGGGAAAAGT
 CTGCAAGTTGTCAAAGGCCAAGAAGTTCCAAGACCCAGATGGACTTCTCCGACCTGTCTAGGCTGTCCC
 TATCTCTCCAGACTCACCCCTGACTCCTGGACAATCTGAGGAAATTCAGCTGCTCCATGAAGAGGTGGC
 CCCTAAGTCCGGGACAGCCGAGTTGGTGGCAGTGTGAAATTCCTCCCGTCTCGCTACCGGAGCAA
 CGCAGGGCCCTGGAGGAGCTGTGCTGCCGAGGAAGCCGGGGCGGTGCATCACCACCTCCAAGCTTTCC
 ATAAGCTCGTGTGTCCGAGACACCCTGCAGCTCCTCCTGCTTACCAGGATCCCTTGTGGTGTGGG
 GGAAGAGGCCACCAACAGCAGGCTGCGACACCGTCTTACAGGTGCTATGCCACCTGGCGCTTCGGCTCC
 CAGGACATGGCCGACTTTGCCATTCTGCCAGCTGTTGCCGCTGGAGGATCCGGAAGGAGTCCCAAGA
 CCGAGGGCAGTATAGTGCTTCAAGTATCCCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG227216 representing NM_011027
 Red=Cloning site Green=Tags(s)

MPACCSWNDVLQYETNKVTRIQSTNYGTVKWLHMIVFSYISFALVSDKLYQRKEPVISSVHTKVKGIAE
 VTEENVTEGGVTKLGHISIFDTADYTFPLQGNSFFVMTNYVKSEGQVQTLCPYPRRGAQCSSDRRCKGWM
 DPQSKGIQTGRCPYDKTRKTCEVSAWCPTEEEKEAPRPALLRSAENFTVLKNNIHFPGHNYTTRNILP
 TMNGSCTFHKTWDPQCSIFRLGDIHQEAGENFTEVAVQGGIMGIEIYWDCNLDWSHHCPRYSFRRLDD
 KNTDESFPVPGYFRYAKYYKENVKRTLIKAFGIRFDILVFGTGGKFDIIQLVVYIGSTLSYFGLATVC
 IDLLINTYSSAFCRSGVYPYCKCCEPCTVNEYYYRKKCESIMEPKPTLKYYVSFVDEPHIRMVDQQLGKS
 LQVVKGQEVPRPQMDSDLRSLSLHDSPLTPGQSEEQLLHEEVAPKSGDPSWCQCGNCLPSRLPEQ
 RRALAEELCCRKPGRCITTSKLFHKLVLSRDTLQLLLLQDPLLVLGEEATNSRLRHRAYRCYATWRFGS
 QDMADFAILPSCCRWRIRKEFPKTEGQYSGFKYPY

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1150_h11.zip

Restriction Sites:

Sgfl-Mlul

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

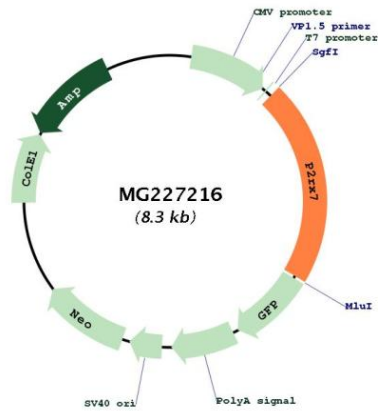
UniProt ID: [Q9Z1M0](#)

Cytogenetics: 5 F

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 MG227216