

Product datasheet for **MG227219**

P2rx7 (NM_001038839) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2rx7 (NM_001038839) 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)
ORF Nucleotide Sequence:	>MG227219 representing NM_001038839 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGCTTGCTGCAGCTGGAACGATGTCTTGACAGTATGAGACAAACAAAGTCACCCGGATCCAGAGCA
CGAATTATGGCACCCTCAAGTGGGTCTTGACATGATCGTCTTTCTACATTAGCTTTGCTTTGGTGAG
CGATAAGCTGTACCAGCGGAAAGAGCCTGTTATCAGCTCCGTGCACACCAAGGTCAAAGGCATAGCAGAG
GTGACGGAGAATGTCACAGAGGGTGGGGTACGAAGTTAGGACACAGCATCTTTGACACTGCAGACTACA
CCTTCCCTTTGCAGGGAACTCATTCTTTGTCATGACAACTATGTCAAGTCAGAAGGCCAAGTGCAGAC
GCTGTGTCTGAGTATCCAGGCGGGTGCACAGTGTCTTCTGACCGGGTGTAAAAAGGGTGGATG
GACCCACAGAGCAAAGGAATCCAGACTGGCAGGTGTGTTCCATATGACAAGACAAGGAAGACCTGTGAAG
TCTCTGCCTGGTGTCTACTGAGGAGGAGAAAAGACTCCCCGACCTGCACTCTTGAGGAGCGCCGAAAA
CTTCACCGTACTCATCAAGAATAATATCCACTTCCCCGGCCACAATAACCACGAGAAACATCTTGCCA
ACTATGAACGGCTCTTGTACCTTTCACAAGACTTGGGACCCTCAGTGTCCATCTTCCGACTAGGGGACA
TCTTCCAGGAAGCAGGAGAGAATTTACAGAGGTGGCAGTTCAGGGAGGAATCATGGGTATCGAGATCTA
CTGGGATTGCAACCTAGACAGCTGGTCCCATCACTGCCGACCCAGGTACAGCTTCCGCCCTGGATGAC
AAGAACACGGATGAGTCTTTCGTCGCCGCTACAACCTCAGATATGCCAAGTACTATAAGGAGAACAATG
TGGAAAAGCGGACGTTGATCAAAGCCTTCGGCATCCGTTTTGACATCCTGGTTTTCGGCACTGGAGGAAA
ATTTGACATCATCCAGCTGGTTGTATACATTGGATCCACCCTGTCTACTTTGGCTTGGCCACTGTGTGC
ATTGACTTGCTCATCAACACATACTCCAGTGTCTTCTGCAGGTCGGGGTACCCTACTGTAAGTGCT
GTGAGCCCTGCACAGTGAACGAGTATTACTACAGAAAGAAGTGTGAGTCCATCATGGAACCAAGCCGAC
GTTGAAGTATGTCTTTGTCGACGAGCCGCACATTCGCATGGTGGACCAGCAGCTGCTGGGAAAAGT
CTGCAAGTTGTCAAAGGCCAAGAAGTTCCAACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227219 representing NM_001038839
 Red=Cloning site Green=Tags(s)

MPACCSWNDVLQYETNKVTRIQSTNYGTVKWVLHMIVFSYISFALVSDKLYQRKEPVISSVHTKVKGIAE
 VTENVTEGGVTKLGHISIFDTADYTFPLQNSFFVMTNYYKSEGQVQTLCPYPRRGAQCSSDRRCKGWM
 DPQSKGIQTGRCPYDTRKTCCEVSAWCPTEEKEAPRPALLRSAENFTVLIKNNIHFPGHNYTTRNLLP
 TMNGSCTFHKTWDPQCSIFRLGDIFQEAGENFTEVAVQGGIMGIEIYWDCNLDWSHHCRPRYSFRRLDD
 KNTDESFPVPGYNFRYAKYYKENNVEKRTLKAFGIRFDILVFGTGGKFDIIQLVYYIGSTLSYFGLATVC
 IDLLINTYSSAFRCRSGVYPYCKCCEPCTVNEYYYRKKCESIMEPKPTLKYYVSVFVDEPHIRMVDQQLGKS
 LQVVKQEVPT

TRTRPLE - GFP Tag - V

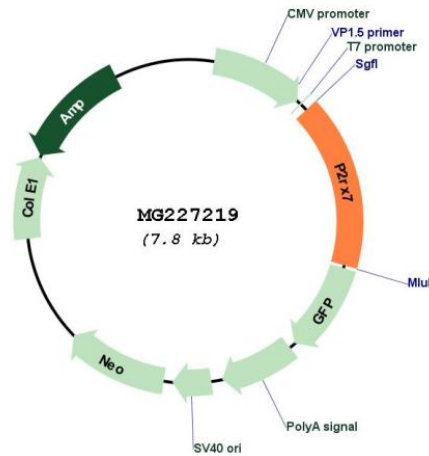
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_001038839.3
RefSeq Size:	2563 bp
RefSeq ORF:	1296 bp
Locus ID:	18439
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]