

Product datasheet for **MR206258**

P2rx1 (NM_008771) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2rx1 (NM_008771) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P2rx1
Synonyms:	AI323649; BB122383; P2x; Pdcd3; RP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206258 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCGGCGGCTGCAGGATGAGCTGTCAGCCTTCTTCTTTGAGTATGACACTCCCCGGATGGTGTCTGG
TACGAAACAAGAAGGTGGGAGTCATTTCCGTCTGATCCAGTTGGTGGTTCTGGTCTACGTCATTGGGTG
GGTGTGTCTATGAAAAAGGATACCAGACCTCAAGTGGCCTTATCAGCAGTGTGTCAGTCAAACCTCAAG
GGCTTGGCTGTGACCCAGCTCCAGGGCCTGGGACCCAGGTCTGGGACGTGGCTGACTATGTCTCCAG
CACATGGGGACAGCTCCTTTGTAGTTATGACCAATTTTCATCATGACCCCTCAGCAGGCTCAAGGACATTG
TGACAGAAACCCAGAAGGTGGCATATGCCAAGATGACAGTGGCTGCACTCCAGGAAAAGCAGAAAGGAAA
GCCCAAGGTATTCGCACAGGCAACTGTGTGCCCTTCAATGGCACTGTGAAGACGTGTGAGATCTTTGGCT
GGTGTCTGTAGAGGTGGATGACAAGATCCCAAGCCCTGCTCTTCTTCATGAGGCTGAGAACTTCAACCT
CTTCATCAAAAACAGCATCAGCTTTCCACGCTTCAAGGTCAACAGGCGCAACCTGGTGGAGGAGGTGAAT
GGTACCTACATGAAGAAATGCCTCTACCACAAGATTCTACACCCGCTGTGCCAGTCTTCAGCCTTGGCT
ATGTGGTGCAGAGTCCGGCCAGGACTCCGAAGCCTTGCTGAGAAGGGCGGGTGGTGGTATCACCAT
CGACTGGGAGTGTGACCTGGACTGGCATGTACGGCACTGCAAACCCATCTACCAGTCCATGGACTGTAC
GGGAGAAGAACCTGTCTCCAGGCTTCAACTTCAGATTTGCCAGGCACTTGTGCAGAAATGGGACAAC
GTCGTACCTCTTCAAGGTGTTGGGATTGCTTTGATATCCTTTGGATGGCAAGGCTGGGAAGTTTGA
CATCATCCCTACTATGACTACCATCGGCTCTGGGATTGGCATCTTTGGAGTGGCCACAGTTCTCTGTGAT
CTCTTATTGCTCCACATCCTGCCTAAGAGGCACTACTACAAGCAGAAGAAGTTCAAGTATGCGGAGGACA
TGGGGCTGTGGAGGTGAACGTGACCCCGCGCCACCAGCTCCACTCTGGGCTGCAGGAGAACATGAG
GACCTCC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206258 protein sequence
Red=Cloning site Green=Tags(s)

MARRLQDELSAFFFEYDTPRMVLVRNKKVGVIFRLIQLVVLVYVIGWVFVYEKGYQTSSGLISSVSVKLLK
 GLAVTQLQGLGPQVWDVADYVFPVPAHGDSFVVMNTFIMTPQQAQGHCAENPEGGICQDDSGCTPGKAERK
 AQGIRTGNCVPFNGTVKTCIEIFGWCPVEVDDKIPSPALLHEAENFTLFIKNSISFPRFKVNRRLVEEVN
 GTYMKKCLYHKILHPLCPVFSLGYVVRESGQDFRSLAEKGGVVGITIDWECDLDWHVRHCKPIYQFHGLY
 GEKNLSPGFNFRFARHFVQNGTNRRLFKVFGIRFDILVDGKAGKFDIIPMTTTIGSGIGIFGVATVLCDD
 LLLLHILPKRHYYKQKKFKYAEDMGPVEGERDPAATSSTLGLQENMRTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008771

ORF Size: 1200 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_008771.2](#), [NP_032797.2](#)

RefSeq Size: 2441 bp

RefSeq ORF: 1200 bp

Locus ID: 18436

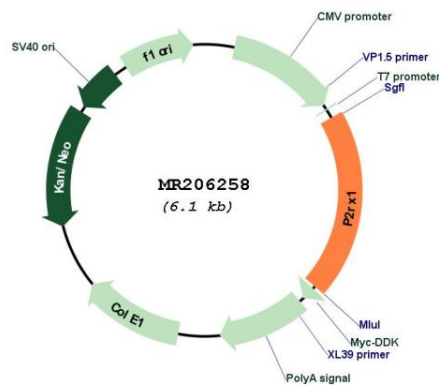
UniProt ID: [P51576](#)

Cytogenetics: 11 45.09 cM

MW: 44.9 kDa

Gene Summary: Ligand-gated ion channel with relatively high calcium permeability. Binding to ATP mediates synaptic transmission between neurons and from neurons to smooth muscle. Seems to be linked to apoptosis, by increasing the intracellular concentration of calcium in the presence of ATP, leading to programmed cell death (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206258