

## Product datasheet for MR206221

### P2rx3 (NM\_145526) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	P2rx3 (NM_145526) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P2rx3
Synonyms:	4930513E20Rik; P2X3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206221 representing NM_145526 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTGTATATCAGACTTCTTACCTACGAGACTACCAAGTCGGTGGTTGTGAAAAGCTGGACCATTG  
GGATCATCAACCGAGCCGTTTCAGCTGCTGATTATCTCCTACTTTGTGGGGTGGTTTTCTTGCACGAGAA  
GGCCTACCAAGTGCAGGACACGGCCATTGAGTCTCAGTAGTAACAAAGGTAAGGCTTCGGACGCTAT  
GCCAACAGAGTCATGGATGTGTCGGATTATGTACCCACCCAGGGCACTTCTGTCTTTGTCATCATCA  
CCAAAATGATCGTTACTGAAAATCAAATGCAAGGATTCTGTCCAGAGAATGAGGAGAAGTACCGCTGTGT  
GTCTGACAGCCAGTGTGGCCTGAGCGCTTCCCGGGTGGGGGATCCTCACCGGCCGCTGCGTGAACCTAC  
AGCTCTGTCCGTCCGACCTGTGAGATCCAGGGCTGGTGCACCACCGAGGTGGACACCGTGGAGATGCCTA  
TCATGATGGAAGCCGAGAAGTTCACCATTTTCATCAAGAACAGCATCCGTTTCCCTCTCTTCAACTTTGA  
GAAGGGAAACCTCCTTCCTAACCTCACCGACAAGGACATAAAGAAGTGCCGCTTCCATCCTGAAAAGGCC  
CCATTTTGCCCATCTTGAGGGTAGGGGACGTGGTTAAGTTTGTGGCAGGATTTTGCCAAAGCTGGCCC  
GCACGGGTGGAGTCTGGGCATTAAGATCGGCTGGGTGTGTGATCTGGACAAGGCCTGGGACAGTGCAT  
TCCCAAATATTCCTTCACTCGGCTAGATGGAGTTTCTGAGAAAAGCAGTGTTCCTGGCTACAACCTC  
AGGTTTGCCAAATACTACAAGATGGAGAATGGCAGCGAGTACCCACGCTCCTGAAGGCTTCGGCATCC  
GCTTTGATGTGCTGGTATACGGGAACGCTGGCAAGTTCAACATCATTCCACCATCATCAGCTCGGTGGC  
TGCCCTCACTTCCGTGGGAGTGGGGACTGTTCTCTGTGACATCATCCTGTCAATTTCTCAAAGGGGCT  
GATCACTACAAAGCCAGGAAGTTTGAAGAGGTGACTGAGACAACACTGAAGGGTACTGCTTCAACCAACC  
CAGTGTTACCAAGTACCAGGCCACTGTAGAGAAGCAGTCCACAGACTCGGGGCCATTCTATTGGTCA  
C

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAAGTTTAA



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**Protein Sequence:** >MR206221 representing NM\_145526  
Red=Cloning site Green=Tags(s)

MNCISDFFTYETTKSVVVKSWTIGIINRAVQLLIISYFVGWVFLHEKAYQVRDTAIESSVVTKVKGFGRY  
 ANRVMDVSDYVTPPQGTSVFVIIITKMIVTENQMQGFCEPENEKYRCVSDSQCGPERFPGGGILTRGCVNY  
 SSVVRTCEIQGWCPTEVDTVEMPIMMEAENFTIFIKNSIRFPLNFEKGNLLPNLTDKDIKKCRFHPEKA  
 PFCPILRVGDVVKFAGQDFAKLARTGGVLGIKIGWVCDLKAWDQCIPKYSFTRLDGVSEKSSVSPGYNF  
 RFAKYKMGSEYPTLLKAFGIRFDVLYVGNAGKFNIIPITIISSVAAFTSVGVGTVLCDIILLNFKLGA  
 DHYKARKFEEVTETTLKGTASTNPVFTSDQATVEKQSTDSGAYSIGH

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\_145526

**ORF Size:** 1191 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\\_145526.1](#)

**RefSeq Size:** 4190 bp

**RefSeq ORF:** 1194 bp

**Locus ID:** 228139

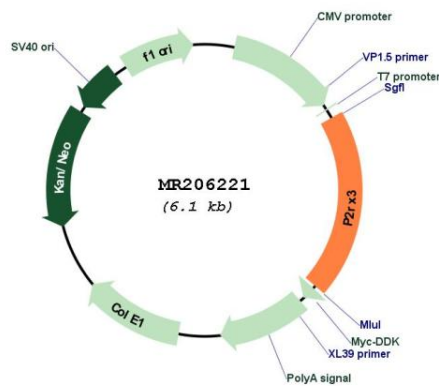
**UniProt ID:** [Q3UR32](#)

**Cytogenetics:** 2 D

**MW:** 44.9 kDa

**Gene Summary:** Receptor for ATP that acts as a ligand-gated cation channel (By similarity). Plays a role in sensory perception (PubMed:15961431, PubMed:16322458). Required for normal perception of pain (PubMed:15961431). Required for normal taste perception (PubMed:16322458). [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR206221