

## Product datasheet for **MG224571**

### **P2rx2 (NM\_001164834) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	P2rx2 (NM_001164834) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P2rx2
Synonyms:	P2x2; P2X2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224571 representing NM_001164834 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGCTGCACAGCCCCGGCTTCCCGCGGGGGCGGCCATGGTCCGGCGCTTGGCCGGGGCTGCTGGT  
CCGCGTCTGGGACTACGAGACGCCAAGGTGATCGTGGTGCAGGAATCGGCGCCTGGGATTCGTGCACCG  
CATGGTGCAGCTGCTCATTCTGCTTTACTTCGTGTGGTACGTCTTCATCGTGCAGAAAAGCTACCAGGAT  
AGCGAAACCGGTCCGGAGAGCTCCATCATCACCAAAGTCAAGGGGATCACCATGTCGGAACACAAAGTGT  
GGGACGTGGAGGAATACGTAAGCCCCCGAGGGGGCAGTGTAGTCAGCATCATCACCAGGATCGAGGT  
TACTCCTTCCCAGACCCTGGGAACATGCCAGAGAGCATGAGGGTTCACAGCTCTACCTGCCATTTAGAT  
GACGACTGTGTGGCCGGACAGCTGGACATGCAGGGCAATGGGATTCGGACAGGACGCTGTGTACCCTATT  
ACCATGGGGACTCCAAGACCTGCGAGGTGTGAGCCTGGTCCCGGTGGAGGATGGGACTTCTGAAAACCA  
TTTTCTGGGTAATAATGGCCCCAAATTCACCATCCTCATCAAGAACAGCATCCACTATCCAAGTTCAAG  
TTCTCCAAGGGCAACATTGCAAGCCAGAAGAGTGACTACCTGAAGCACTGCACGTTTGTATCAGGACTCTG  
ATCCATACTGTCCCATCTTCAGGCTGGGCTTATTGTAGAGCAAGCAGGAGAGAAGTTACAGAACTGGC  
ACACAAGGGCGGTGTCATTGGGGTCATCATCAACTGGAAGTGTGACCTGGACTTGTCTGAATCAGAGTGC  
AACCCCAAATATTCTTTCCGGAGGCTCGACCCCAAGTATGACCCTGCCTTTCAGGCTACAAGTTTCAGGT  
TTGCCAAATATTACAAGATAAACGGCACCACCACCACTCGAACTCTCATCAAAGCCTATGGGATTCGAAT  
TGACGTTATTGTGCATGGACAGGCAGGAAATTAGTCTCATTCCACCATCATCAATCTGGCCACTGCT  
CTGACCTCCATCGGGGTGGGCTCCTTTCTGTGTGACTGGATTTTGTAAACGTTTCATGAACAAAAACAAGC  
TCTACAGCCATAAGAAGTTCGACAAGGACTCCACATCCACGGACCCCAAAGTTTGGCCAACTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224571 representing NM\_001164834  
 Red=Cloning site Green=Tags(s)

MAAAQPRLPAGAAMVRRRLARGCWSAFWDYETPKVIVVRNRRLGFVHRMVQLLILLYFVWYVFIVQKSYQD  
 SETGPESIIITKVKGITMSEHKVWDVEEYVKPPEGGSVSIITRIEVTPTSQTLGTCPESMRVHSSTCHLD  
 DDCVAGQLDMQNGIRTGRCPVYHGDSTCEVSAWCPVEDGTSENHFLGKMAPNFILIKNSIHYPKFK  
 FSKGNIASQKSDYLKHCFTFDQSDPYCPIFRLGFIVEQAGENFTELAHKGGVIGV IINWNCDDLSESEC  
 NPKYSFRRLDPKYDPASSGYNFRFAKYKINGTTTTRTLIKAYGIRIDVIVHGQAGKFLIPTIINLATA  
 LTSIGVGSFLCDWILLTFMNKNKLYSHKKFDKSTSTDPKGLAQL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001164834

**ORF Size:** 1185 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\\_001164834.1](#), [NP\\_001158306.1](#)

**RefSeq Size:** 1649 bp

**RefSeq ORF:** 1188 bp

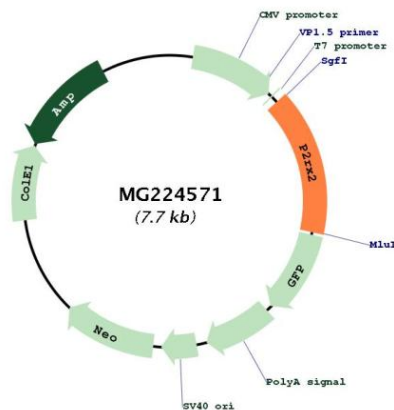
**Locus ID:** 231602

**UniProt ID:** [Q8K3P1](#)

**Cytogenetics:** 5 F

**Gene Summary:** Ion channel gated by extracellular ATP involved in a variety of cellular responses, such as excitatory postsynaptic responses in sensory neurons, neuromuscular junctions (NMJ) formation, hearing, perception of taste and peristalsis. In the inner ear, regulates sound transduction and auditory neurotransmission, outer hair cell electromotility, inner ear gap junctions, and K(+) recycling. Mediates synaptic transmission between neurons and from neurons to smooth muscle.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG224571