

## Product datasheet for **MG224160**

### **P2rx2 (NM\_001164833) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	P2rx2 (NM_001164833) 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:	>MG224160 representing NM_001164833 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGCTGCACAGCCCCGGCTTCCCGCGGGGCGGCCATGGTCCGGCGCTTGGCCGGGGCTGCTGGT  
 CCGCGTTCTGGGACTACGAGACGCCAAGGTGATCGTGGTGCGGAATCGGCGCCTGGGATTCGTGCACCG  
 CATGGTGCAGCTGCTCATTCTGCTTTACTTCGTGTGTACGTCTTCATCGTCAGAAAAGCTACCAGGAT  
 AGCGAAACCGGTCCGGAGAGCTCCATCATCACCAGTCAAGGGGATCACCATGTCGGAACACAAAGTGT  
 GGGACGTGGAGGAATACGTAAAGCCCCGGAGGGGGCAGTGTAGTCAGCATCATCACCAGGATCGAGGT  
 TACTCCTTCCCAGACCCTGGGAACATGCCAGAGAGCATGAGGGTTCACAGCTCTACCTGCCATTTAGAT  
 GACGACTGTGTGGCCGGACAGCTGGACATGCAGGCAATGGGATTCGGACAGGACGCTGTGTACCTATT  
 ACCATGGGGACTCCAAGACCTGCGAGGTGTGAGCTGGTCCCGGTGGAGGATGGGACTTCTGAAAACCA  
 TTTTCTGGGTAAAATGGCCCCAAATTCACCATCCTCATCAAGAACAGCATCCACTATCCCAAGTTCAAG  
 TTCTCCAAGGGCAACATTGCAAGCCAGAAGGTGACTACCTGAAGCACTGCACGTTTGATCAGGACTCTG  
 ATCCATACTGTCCCATCTTCAGGCTGGGCTTCATTGTAGAGCAAGCAGGAGAGAACTTCACAGAAGTGGC  
 ACACAAGGGCGGTGTCATTGGGGTCATCATCACTGGAAGTGTGACCTGGACTTGCTGAATCAGAGTGC  
 AACCCCAATATTCTTTCCGGAGGCTCGACCCCAAGTATGACCTGCCTCTTCAGGCTACAAGTTCAGGT  
 TTGCCAAATATTACAAGATAAACGGCACCACCACCACTCGAACTCTCATCAAAGCCTATGGGATTGCAAT  
 TGACGTTATTGTGCATGGACAGGCAGGAAATTAGTCTCATTCCACCACATCAATCTGGCCACTGCT  
 CTGACCTCCATCGGGGTGGGCTCCTTTCTGTGTGACTGGATTTTGTAAAGTTTCATGAACAAAAACAAGC  
 TCTACAGCCATAAGAAGTTCGACAAGGTGGTGGACACTTTGACCAGCATATGGGACAAAGGCTCCTGT  
 CCCTGAGCCTTCCCAACAGGACTCCACATCCACGGACCCCAAGGTTTGGCCCAACTT

**ACGCGT**ACGCGGCGGCTCGAG - GFP Tag - GTTTAA


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**Protein Sequence:** >MG224160 representing NM\_001164833  
 Red=Cloning site Green=Tags(s)

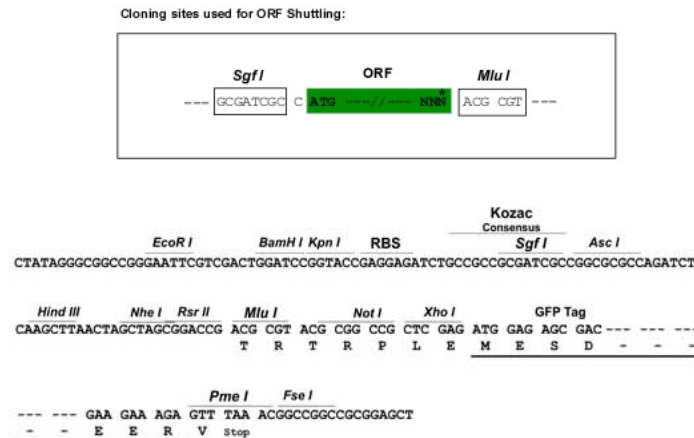
MAAAQPRLPAGAAMVRRRLARGCWSAFWDYETPKVIVVRNRRLGFVHRMVQLLILLYFVWYVFIVQKSYQD  
 SETGPSSIITKVKGITMSEHKVWDVEEYVKPPEGGSVSIITRIEVTPTSLGTCPESMRVHSSTCHLD  
 DDCVAGQLDMQNGIRTGRCPYPYHGDSTCEVSAWCPVEDGTSENHFLGKMAPNFTILIKNSIHYPKFK  
 FSKGNIASQKSDYLKHCTFDQSDPYCPIFRLGFIVEQAGENFTELAHKGGVIGVWINWNCDDLSESEC  
 NPKYSFRRLDPKYDPASSGYNFRFAKYKINGTTTTRTLIKAYGIRIDVIVHGQAGKFSLIPTIINLATA  
 LTSIGVGSFLCDWILLTFMNKNKLYSHKKFDKVVDTLQHMGRPPVPEPSQQDSTSTDPKGLAQL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001164833

**ORF Size:** 1248 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\\_001164833.1](#), [NP\\_001158305.1](#)

**RefSeq Size:** 1712 bp

**RefSeq ORF:** 1251 bp

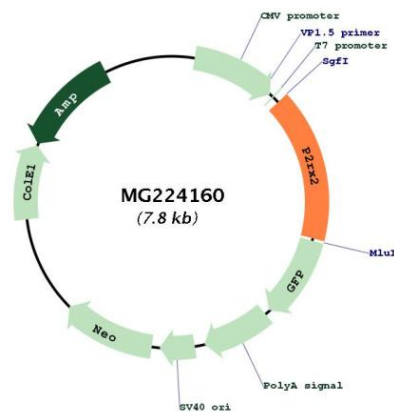
**Locus ID:** 231602

**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 MG224160