

Product datasheet for **MR224157**

P2rx2 (NM_153400) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2rx2 (NM_153400) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P2rx2
Synonyms:	P2x2; P2X2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR224157 representing NM_153400
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGCTGCACAGCCCCGGCTTCCCGCGGGGGCGGCCATGGTCCGGCGCTTGCCCGGGGCTGCTGGT
 CCGCGTTCCTGGGACTACGAGACGCCAAGGTGATCGTGGTGCGGAATCGGCGCCTGGGATTCGTGCACCG
 CATGGTGCAGCTGCTCATTCTGCTTTACTTCGTGTGGTACGTCTTCATCGTGCAGAAAAGCTACCAGGAT
 AGCGAAACCGG[AT]CCGGAGAGCTCCATCATACCAAAGTCAAGGGGATCACCATGTCGGAACACAAAG
 TGTGGGACGTGGAGGAATACGTAAGGCCCCCGAGGGGGCAGTGTAGTCAGCATCATCACCAGGATCGA
 GGTTACTCCTCCAGACCCTGGGAACATGCCAGAGAGCATGAGGGTTCACAGCTCTACCTGCCATTTA
 GATGACGACTGTGTGGCCGACAGCTGGACATGCAGGGCAATGGGATTCGGACAGGACGCTGTGTACCT
 ATTACCATGGGGACTCCAAGACCTGCGAGGTGTCAGCCTGGTCCCGGTGGAGGATGGGACTTCTGAAAA
 CCATTTCTGGGTAAGTGGCCCAAATTTACCATCCTCATCAAGAACAGCATCCACTATCCCAAGTTC
 AAGTTCTCCAAGGCAACATTGCAAGCCAGAAGAGTGACTACCTGAAGCACTGCACGTTTGATCAGGACT
 CTGATCCATACTGTCCCATCTTCAGGCTGGGCTTCATTGTAGAGCAAGCAGGAGAGAAGTTCACAGAAGT
 GGCACACAAGGGCGGTGTCATTGGGGTCATCATCAACTGGAAGTGTGACCTGGACTTGTCTGAATCAGAG
 TGCAACCCCAAATATTCTTTCCGGAGGCTCGACCCCAAGTATGACCCTGCCTCTTCAGGCTACAAGTTC
 GGTTTGCCAAATATTACAAGATAAACCAGGACCACCACCACTCGAAGTCTCATCAAAGCCTATGGGATTCG
 AATTGACGTTATTGTGCATGGACAGGCAAGGAAATTCAGTCTCATTCCCACCATCATCAATCTGGCCACT
 GCTCTGACCTCCATCGGGTGGGCTCCTTCTGTGTGACTGGATTTTGTAAACGTTTATGAACAAAAACA
 AGCTCTACAGCCATAAGAAGTTCGACAAGGTGCGTACCCCAAGGCACCCCTCAAGTAGATGGCCTGTGAC
 CCTTGCCCTTGTCTTGGGCCAGATCCCTCCCCACCTAGTCACTACTCCAGGACCAGCCACCCAGCCTT
 CCATCAGGTGAAGGACCAGCTTTGGGAGAAGGGGACAGACTACCACTGGCTGTCCAGCCTCCTCGGTCTT
 GCTCCAGCTCTGCTGACTGAGCAGGTGGTGGACACTCTTGACCAGCATATGGGACAAAGGCTCCTGT
 CCCTGAGCCTTCCAACAGGACTCCACATCCACGGACCCCAAAGGTTTGGCCCACTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224157 representing NM_153400
 Red=Cloning site Green=Tags(s)

MAAAQPRLPAGAAMVRRRLARGCWSAFWDYETPKIVVRRNRRLGFVHRMVQLLILLYFVWYVFIVQKSYQD
 SETXXPESSIIITKVKGITMSEHKVWDVEEYVKPPEGGSVVSIIITRIEVTSPQTLGTCPESMRVHSSTCHL
 DDDCVAGQLDMQNGIRTGRCVPPYHGDSTCEVSAWCPVEDGTSENHFLGKMAPNFTILIKNSIHYPKF
 KFSKGNIASQKSDYLKHCTFDQSDPYCPIFRLGFIVEQAGENFTELAHKGVIIVINWNCDDLSESE
 CNPKYSFRRLDPKYDPASSGYNFRFAKYKINGTTTTTRTLIKAYGIRIDVIVHGQAGKFLIPTIINLAT
 ALTSIGVGSFLCDWILLTFMKNKLYSHKFKDKVRTPRHPSSRWPVTLALVLGQIPPPPSHYSQDQPPSL
 PSGEGPALGEGAELPLAVQPPRSCSSSALTEQVVDLTDQHMGQRPPVPEPSQQDSTSTDPKGLAQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

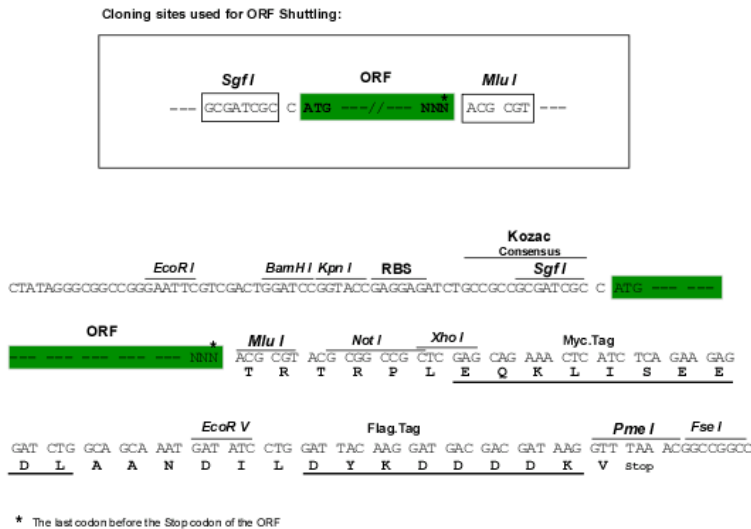
Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_g01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_153400

ORF Size: 1458 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

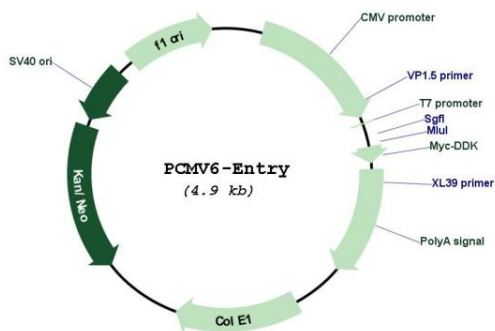
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_153400.2](#), [NM_153400.3](#), [NM_153400.4](#), [NP_700449.2](#)
 RefSeq Size: 1919 bp
 RefSeq ORF: 1458 bp
 Locus ID: 231602
 UniProt ID: [Q8K3P1](#)
 Cytogenetics: 5 F
 MW: 54.4 kDa

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 MR224157