

Product datasheet for MR224571

P2rx2 (NM_001164834) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: P2rx2 (NM_001164834) 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)
ORF Nucleotide Sequence: >MR224571 representing NM_001164834
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGCTGCACAGCCCCGGCTTCCCGCGGGGGCGGCCATGGTCCGGCGCTTGGCCGGGGCTGCTGGT
 CCGCGTCTGGGACTACGAGACGCCAAGGTGATCGTGGTGCAGGAATCGGCGCCTGGGATTCGTGCACCG
 CATGGTGCAGCTGCTCATTCTGCTTTACTTCGTGTGGTACGTCTTCATCGTGCAGAAAAGCTACCAGGAT
 AGCGAAACCGGTCCGGAGAGCTCCATCATACCAAAGTCAAGGGGATCACCATGTCGGAACACAAAGTGT
 GGGACGTGGAGGAATACGTAAGCCCCCGAGGGGGCAGTGTAGTCAGCATCATACCAGGATCGAGGT
 TACTCCTTCCCAGACCCTGGGAACATGCCAGAGAGCATGAGGGTTCACAGCTCTACCTGCCATTTAGAT
 GACGACTGTGTGGCCGACAGCTGGACATGCAGGGCAATGGGATTCGGACAGGACGCTGTGTACCCTATT
 ACCATGGGGACTCCAAGACCTGCGAGGTGTGAGCCTGGTCCCGGTGGAGGATGGGACTTCTGAAAACCA
 TTTTCTGGGTAATAATGGCCCCAAATTCACCATCCTCATCAAGAACAGCATCCACTATCCAAGTTCAAG
 TTCTCCAAGGGCAACATTGCAAGCCAGAAGAGTGACTACCTGAAGCACTGCACGTTTGATCAGGACTCTG
 ATCCATACTGTCCCATCTTCAGGCTGGGCTTATTGTAGAGCAAGCAGGAGAGAAGTTACAGAACTGGC
 ACACAAGGGCGGTGTCATTGGGGTATCATCAACTGGAAGTGTGACCTGGACTTGTCTGAATCAGAGTGC
 AACCCCAAATATTCTTTCCGGAGGCTCGACCCCAAGTATGACCCCTTCAGGCTACAACCTTCAGGT
 TTGCCAAATATTACAAGATAAACGGCACACCACCACCTCGAACTCTCATCAAAGCCTATGGGATTCGAAT
 TGACGTTATTGTGCATGGACAGGCAAGAAATTAGTCTCATTCCACCATCATCAATCTGGCCACTGCT
 CTGACCTCCATCGGGGTGGGCTCCTTTCTGTGTGACTGGATTTTGTAAACGTTTCATGAACAAAAACAAGC
 TCTACAGCCATAAGAAGTTCGACAAGGACTCCACATCCACGGACCCCAAAGTTTGGCCAACTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224571 representing NM_001164834
Red=Cloning site Green=Tags(s)

MAAAQPRLPAGAAMVRRRLARGCWSAFWDYETPKVIVVRNRRLGFVHRMVQLLILLYFVWYVFIVQKSYQD
 SETGPSSIITKVKGITMSEHKVWDVEEYVKPPEGGSVSIITRIEVTPTSQTLGTCPESMRVHSSTCHLD
 DDCVAGQLDMQNGIRTGRCPVYYHGDSKTCEVSAWCPVEDGTSENHFLGKMAPNFITLIKNSIHYPKFK
 FSKGNIASQKSDYLKHCFTFDQSDPYCPIFRLGFIVEQAGENFTELAHKGVGIVGIINWNCDDLSESEC
 NPKYSFRRLDPKYDPASSGYNFRFAKYKINGTTTTRTLIKAYGIRIDVIYHGQAGKFSLIPTIINLATA
 LTSIGVGSFLCDWILLTFMKNKLYSHKKFKDSTSTDPKGLAQL

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_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

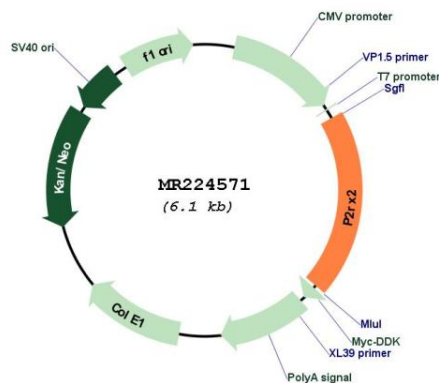
UniProt ID: [Q8K3P1](#)

Cytogenetics: 5 F

MW: 44.8 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 MR224571