

Product datasheet for **RR200412**

P2rx1 (NM_001142367) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: P2rx1 (NM_001142367) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: P2rx1
Synonyms: P2XMR
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200412 representing NM_001142367
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCGGGCGGTGCAAGATGAGCTGTCAGCCTTCTTCTTTGAATATGACACTCCCCGGATGGTGTCTGG
TACGAAACAAGAAGGTGGGAGTCATTTCCGTCTGATCCAGTTGGTGGTCTGGTCTACGTCATTGGGTG
GGTGTCTGCTATGAAAAAGGATACCAGACCTCAAGTACCTCATCAGCAGTGTGTCGGTGAAGCTCAAG
GGCTTGGCTGTGACCCAGCTCCAGGGCCTGGGACCCAGGTCTGGGACGTGGCTGACTATGTCTCCAG
CACACGGGACAGCTCCTTTGTAGTTATGACCAACTTCATCGTGACCCCTCAGCAGACTCAAGGCCATTG
TGCAGAGAACCAGAAGGTGGCATATGCCAGGATGACAGTGGCTGCACTCCAGGAAAAGCAGAAAGGAAA
GCCCAAGGTATTCGCACAGGCAACTGTGTGCCCTTCAATGGCACTGTGAAGACATGTGAGATCTTTGGTT
GGTGTCTGTAGAGGTGGATGACAAGATCCCAAGCCCTGCTCTTCTTCTGAGGTGAATGGCACCTACAT
GAAGAAGTGCCTATCACAAGATTCAACACCCCTGTGCCAGTCTTCAACCTGGCTATGTGGTGCGA
GAGTCAGGCCAGGACTTCCGCAGCCTTGCTGAGAAGGTGGGGTGGTGGTATCACCATTGACTGGAAGT
GTGATCTGGACTGGCAGTTTCGGCACTGCAAACCCATCTACCAGTTCACGGACTGTATGGGGAGAAGAA
CCTGTCTCCAGGCTTCAACTTCAGATTTGCCAGGCATTTCTGTCAGAATGGGACAAACCGTCGTCACCTC
TTCAAGGTGTTTGGGATTCACTTTGATATCCTTGTGGATGGCAAGGCTGGGAAGTTTGACATCATCCCTA
CTATGACTACTATCGTTCTGGATTGGCATCTTTGGAGTGGCCACAGTCTTTGTGATCTCTTATTGCT
CCACATCTGCCTAAGAGGCACTACTACAAGCAGAAGAAGTTCAAATATGCCGAGGACATGGGGCCGGGA
GAGGGTGAACATGACCCGTGGCCACCAGCTCCACTCTGGGCCTGCAGGAGAACATGAGGACCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR200412 representing NM_001142367
Red=Cloning site Green=Tags(s)

MARRLQDELSAFFFEYDTPRMVLVRNKKVGVIFRLIQLVVLVYVIGWVFVYEKGYQTSSDLISSVSVKLLK
 GLAVTQLQGLGPQVWDVADYVFPAPAGDSSFVVMNFIVTPQQTQGHCAENPEGGICQDDSGCTPGKAERK
 AQGIRTGNCVPFNGTVKTCIEIFGWCPVEVDDKIPSPALLREVNGTYMKKCLYHKIQHPLCPVFNLGYYVVR
 ESGQDFRSLAEKGGVVGITIDWKCDLDWHVHRHCKPIYQFHGLYGEKNLSPGFNFRFARHFVQNGTNRRL
 FKVFGIHFIDILVDGKAGKFDIIPMTTIGSGIGIFGVATVLCDLLLHILPKRHYYKQKFKYAEDMGPG
 EGEHDPVATSSTLGLQENMRTS

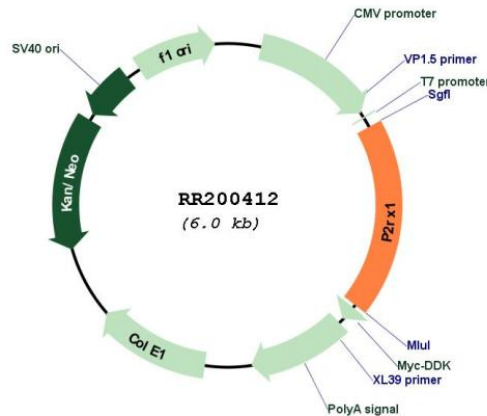
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001142367

ORF Size:	1116 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:	<ol style="list-style-type: none">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_001142367.2 , NP_001135839.1
RefSeq Size:	2466 bp
RefSeq ORF:	1119 bp
Locus ID:	25505
UniProt ID:	P47824
Cytogenetics:	10q24
MW:	41.7 kDa
Gene Summary:	ligand-gated cation-selective ion channel with relatively high calcium permeability; activated by ATP and may be involved in synaptic transmission [RGD, Feb 2006]