

Product datasheet for **RR200413**

P2rx1 (NM_012997) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2rx1 (NM_012997) 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:	>RR200413 representing NM_012997 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCGGGCGCTGCAAGATGAGCTGTCAGCCTTCTTCTTTGAATATGACACTCCCCGGATGGTGTCTGG
TACGAAACAAGAAGGTGGGAGTCATTTCCGTCTGATCCAGTTGGTGGTCTGGTCTACGTCATTGGGTG
GGTGTGGTCTATGAAAAAGGATACCAGACCTCAAGTGACCTCATCAGCAGTGTGTCGGTGAAGCTCAAG
GGCTTGGCTGTGACCCAGCTCCAGGGCCTGGGACCCAGGTCTGGGACGTGGCTGACTATGTCTCCAG
CACACGGGGACAGCTCCTTTGTAGTTATGACCAACTTCATCGTGACCCCTCAGCAGACTCAAGGCCATTG
TGCAGAGAACCAGAAAGGTGGCATATGCCAGGATGACAGTGGCTGCACTCCAGGAAAAGCAGAAAGGAAA
GCCCAAGGTATTCGCACAGGCAACTGTGTGCCCTTCAATGGCACTGTGAAGACATGTGAGATCTTTGGTT
GGTGTCTGTAGAGGTGGATGACAAGATCCCAAGCCCTGCTCTTCTTCTGAGGCTGAGAAGTCCACCT
CTTCATCAAAAACAGCATCAGCTTCCACGCTTCAAGGTCAACAGGCGCAACCTGGTAGAGGAGGTGAAT
GGCACCTACATGAAGAAGTGCCTCTATCACAAGATTCAACACCCCTGTGCCAGTCTTCAACCTTGGCT
ATGTGGTGGGAGAGTCAAGCCAGGACTCCGACGCTTGTGAGAAGGGTGGGGTGGTGGTATCACCAT
TGACTGGAAGTGTGATCTGGACTGGCAGCTTCCGCACTGCAAACCATCTACCAGTCCACGGACTGTAT
GGGGAGAAGAACCTGTCTCCAGGCTTCAACTTCAGATTTGCCAGGCATTTCTGTCAGAATGGGACAAACC
GTCGTACCTCTTCAAGGTGTTGGGATTCACTTTGATATCCTTGTGGATGGCAAGGCTGGGAAGTTTGA
CATCATCCCTACTATGACTACTATCGGTTCTGGGATTGGCATCTTTGGAGTGGCCACAGTCTTTGTGAT
CTCTTATTGCTCCACATCTGCCTAAGAGGCACTACTACAAGCAGAAGAAGTTCAAATATGCCGAGGACA
TGGGGCCGGGAGAGGGTGAACATGACCCCGTGGCCACCAGCTCCACTCTGGGCTGCAGGAGAACATGAG
GACCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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MARRLQDELSAFFFEYDTPRMVLVRNKKVGVIFRLIQLVVLVYVIGWVFVYEKGYQTSSDLISSVSVKLLK
 GLAVTQLQGLGPQVWDVADYVFPAHGDSSFVVMNFIVTPQQTQGHCAENPEGGICQDDSGCTPGKAERK
 AQGIRTGNCVPFNGTVKTCIEIFGWCPVEVDDKIPSPALLREAENFTLFIKNSISFPRFKVNRRLVEEVN
 GTYMKKCLYHKIQHPLCPVFNLGYVRESGQDFRSLAEKGGVVGITIDWKCDLDWHVRHCKPIYQFHGLY
 GEKNLSPGFNFRFARHFVQNGTNRRLFKVFGIHFIDILVDGKAGKFDIIPMTTIGSGIGIFGVATVLCDD
 LLLLHILPKRHYYKQKKFKYAEDMGPGEHDPVATSSTLGLQENMRTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

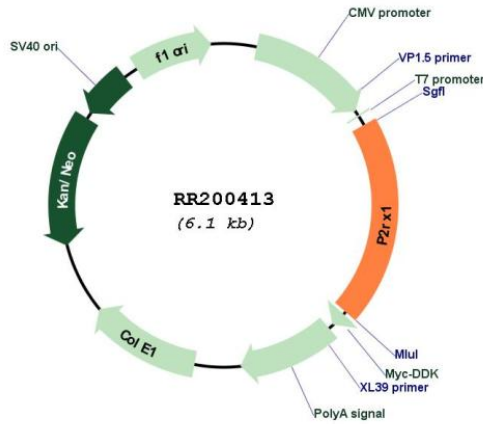
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_012997

ORF Size:	1197 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_012997.3 , NP_037129.1
RefSeq Size:	2547 bp
RefSeq ORF:	1200 bp
Locus ID:	25505
UniProt ID:	P47824
Cytogenetics:	10q24
MW:	45 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]