

Product datasheet for **RC237582**

P2RX4 (NM_001261398) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: P2RX4 (NM_001261398) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: P2RX4
Synonyms: P2X4; P2X4R
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237582 representing NM_001261398
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGGCTGCTGCGCCGCGTGGCGGCCTTCTGTTCGAGTACGACACGCCGCGCATCGTGCTCATCC
GCAGCCGCAAAGTGGGGCTCATGAACCGCGCCGTGCAACTGCTCATCCTGGCCTACGTATCGGGTGGGT
GTTTGTGTGGAAAAGGGCTACCAGGAACTGACTCCGTGGTCCGTTACGACCAAGGTCAAGGGC
GTGGCTGTGACCAACACTTCTAAACTTGGATTCCGGATCTGGGATGTGGCGGATTATGTGATACCAGCTC
AGGAGGAAAACCTCCTCTTCGTCATGACCAACGTGATCCTCACCATGAACCAGACACAGGGCCTGTGCC
CGAGATTCCAGATGCGACCACTGTGTAAATCAGATGCCAGCTGTACTGCCGGCTCTGCCGGCACCCAC
AGCAACGGAGTCTCAACAGGCAGGTGCGTAGCTTTCAACGGGTCTGTCAAGACGTGTGAGGTGGCGGCT
GGTGCCCGGTGGAGGATGACACACACGTGCCACAACCTGCTTTTTTAAAGGCTGCAGAAAACCTCACTCT
TTTGGTTAAGAACAACATCTGGTATCCCAAATTTAATTTAGCAAGAGGAATATCCTTCCCAACATCACC
ACTACTACCTCAAGTCGTGCATTTATGATGCTAAAACAGATCCCTTCTGCCCATATCCGCTCTTGCA
AAATAGTGGAGAACGCAGGACACAGTTTCCAGGACATGGCCGTGGAGGGAGGCATCATGGCATCCAGGT
CAACTGGGACTGCAACCTGGACAGAGCCGCTCCCTCTGCTTGCCAGGTACTCCTTCCGCCGCTCGAT
ACACGGGACGTTGAGCACAACGTATCTCCTGGCTACAATTTAGGTTTGCCAAGTACTACAGAGACCTGG
CTGGCAACGAGCAGCGCACGCTCATCAAGGCCTATGGCATCCGCTTCGACATCATTGTGTTTGGGAAGGC
AGGGAAATTTGACATCACCCAGAGAAATTTCTGGAATCTGAT

ACGGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237582 representing NM_001261398
Red=Cloning site Green=Tags(s)

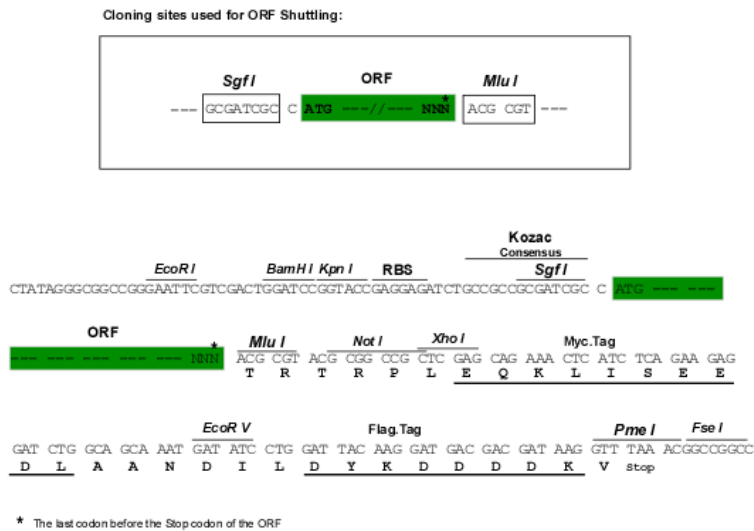
MAGCCAALAAFLFEYDTPRIVLIRSARKVGLMNRVQLLILAYVIGWVFWVEKGYQETDSVSSVTTKVKG
 VAVTNTSKLGFRIWDVADYVIPAQEENSLFVMTNVILTMNQTLCPDATTVCCKSDASCTAGSAGTH
 SNGVSTGRCVAFNGSVKTCVAAWCPVEDDTHVPQPAFLKAAENFTLLVKNNIWPYKFNFSKRNLPNIT
 TTYLKSCIYDAKTDPPFCPIFRLGKIVENAGHSFQDMAVEGGIMGIQVNWDCNLDRAASLCLPRYSFRRLD
 TRDVEHNVSPGYNFRFAKYRDLAGNEQRTLKAYGIRFDIIVFGKAGKFDITPEKFLESD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

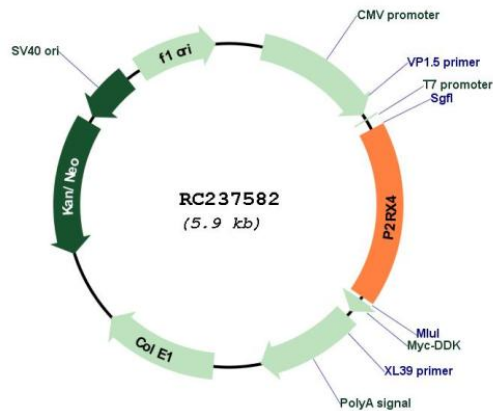
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001261398

ORF Size: 1023 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_001261398.2
RefSeq Size:	1796 bp
RefSeq ORF:	1026 bp
Locus ID:	5025
Cytogenetics:	12q24.31
Protein Families:	Druggable Genome, Ion Channels: ATP Receptors, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction
MW:	38.4 kDa
Gene Summary:	The product of this gene belongs to the family of purinoceptors for ATP. This receptor functions as a ligand-gated ion channel with high calcium permeability. The main pharmacological distinction between the members of the purinoceptor family is the relative sensitivity to the antagonists suramin and PPADS. The product of this gene has the lowest sensitivity for these antagonists. Multiple alternatively spliced transcript variants, some protein-coding and some not protein-coding, have been found for this gene. [provided by RefSeq, Feb 2012]