

Product datasheet for RC207613

P2RX4 (NM_002560) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2RX4 (NM_002560) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P2RX4
Synonyms:	P2X4; P2X4R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207613 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGCTGCTGCGCCGCGCTGGCGGCCTTCTGTTGAGTACGACACGCCGCGCATCGTGCTCATCC
GCAGCCGCAAAGTGGGGCTCATGAACCGCGCCGTGCAACTGCTCATCCTGGCCTACGTCATCGGGTGGGT
GTTTGTGTGGGAAAGGGCTACCAGGAACTGACTCCGTGGTCAGCTCCGTTACGACCAAGGTCAAGGGC
GTGGCTGTGACCAACACTTCTAACTTGGATTCCGGATCTGGGATGTGGCGGATTATGTGATACCAGCTC
AGGAGGAAAACCTCCTTTCGTCATGACCAACGTGATCCTCACCATGAACCAGACACAGGGCCTGTGCC
CGAGATCCAGATGCGACCACTGTGTAAATCAGATGCCAGCTGTACTGCCGGCTCTGCCGGCACCCAC
AGCAACGGAGTCTCAACAGGCAGGTGCGTAGCTTCAACGGGTCCGTCAAGACGTGTGAGGTGGCGGCC
GGTGCCCGGTGGAGGATGACACACACGTGCCACAACCTGCTTTTTAAAGGCTGCAGAAAACCTCACTCT
TTTGGTTAAGAACAACATCTGGTATCCCAAATTAATTCAGCAAGAGGAATATCCTTCCCAACATCACC
ACTACTTACCTCAAGTCGTGATTTATGATGCTAAAACAGATCCCTTCTGCCCATATCCGTCTTGGCA
AAATAGTGGAGAACGCAGGACACGGTTCCAGGACATGGCCGTGGAGGGAGGCATCATGGGCATCCAGGT
CAACTGGGACTGCAACCTGGACAGAGCCGCTCCCTCTGCTTGCCAGGTAATCCTTCCGCCGCTCGAT
ACACGGGACGTTGAGCACAACGTATCTCCTGGCTACAATTCAGGTTTGCCAAGTACTACAGAGACCTGG
CTGGCAACGAGCAGCGCACGCTCATCAAGGCCTATGGCATCCGCTTCGACATCATTGTGTTTGGGAAGGC
AGGGAATTTGACATCATCCCCACTATGATCAACATCGGCTCTGGCCTGGCACTGCTAGGCATGGCGACC
GTGCTGTGTGACATCATAGTCTCTACTGCATGAAGAAAAGACTTACTATCGGGAGAAGAAATATAAAT
ATGTGGAAGATTACGAGCAGGGTCTTGCTAGTGAGCTGGACCAG

ACGGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_002560.3](#)

RefSeq Size: 2043 bp

RefSeq ORF: 1167 bp

Locus ID: 5025

UniProt ID: [Q99571](#)

Cytogenetics: 12q24.31

Domains: P2X_receptor

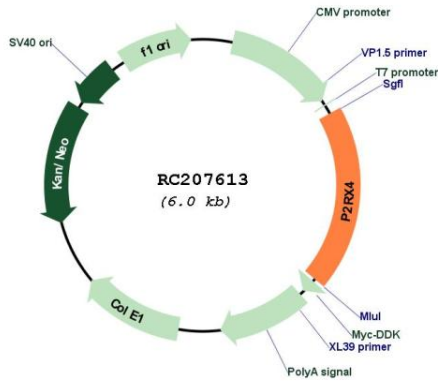
Protein Families: Druggable Genome, Ion Channels: ATP Receptors, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction

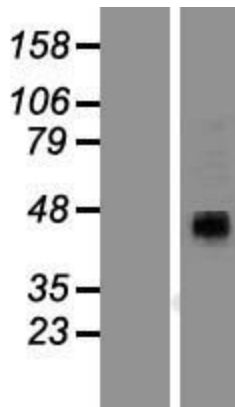
MW: 43.3 kDa

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]

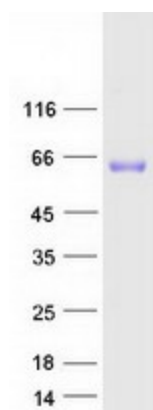
Product images:



Circular map for RC207613



Western blot validation of overexpression lysate (Cat# [LY419264]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207613 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified P2RX4 protein (Cat# [TP307613]). The protein was produced from HEK293T cells transfected with P2RX4 cDNA clone (Cat# RC207613) using MegaTran 2.0 (Cat# [TT210002]).