

Product datasheet for **RG233998**

P2RX4 (NM_001256796) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: P2RX4 (NM_001256796) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: P2RX4
Synonyms: P2X4; P2X4R
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233998 representing NM_001256796
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCGGGCTGCTGCGCCGCGCTGGCGGCCTTCTGTTGAGTACGACACGCCGCGCATCGTGCTCATCC
 GCAGCCGCAAAGTGGGGCTCATGAACCGCGCCGTGCAACTGCTCATCCTGGCCTACGTCATCGGGTGCTA
 CCATCCCCATTTGGCAGAAGTGGAAATGGAGTCCCCTAGAAGGTGGGTGTTTGTGTGGGAAAAGGGCTAC
 CAGGAAACTGACTCCGTGGTCACTCCGTTACGACCAAGGTCAAGGGCGTGGCTGTGACCAACACTTCTA
 AACTTGGATTCCGGATCTGGGATGTGGCGGATTATGTGATACCAGCTCAGGAGGAAAACCTCCTCTCGT
 CATGACCAACGTGATCCTCACCATGAACAGACACAGGGCCTGTGCCCGGAGATTCCAGATGCGACCACT
 GTGTGTAATCAGATGCCAGCTGTACTGCCGGCTCTGCCGGCACCCACAGCAACGGAGTCTCAACAGGCA
 GGTGCGTAGCTTCAACGGGTCTGTCAAGACGTGTGAGGTGGCGGCTGGTGCCTGGGAGGATGACAC
 ACACGTGCCACAACCTGCTTTTTAAAGGCTGCAGAAAACCTCACTCTTTGGTTAAGAACAACATCTGG
 TATCCCAAATTTAATTTAGCAAGAGGAATATCCTTCCCAACATCACCCTACTTACCTCAAGTCGTGCA
 TTTATGATGCTAAAACAGATCCCTTCTGCCCATATTCGGTCTTGCCAAAATAGTGGAGAACGCAGGACA
 CAGTTTCCAGGACATGGCCGTGGAGGGAGGCATCATGGGCATCCAGGTCAACTGGGACTGCAACCTGGAC
 AGAGCCGCTCCCTCTGCTTGGCCAGTACTCCTCCGCCGCTCGATACACGGGACGTTGAGCACAACG
 TATCTCCTGGCTACAATTTAGGTTTGCCAAAGTACTACAGAGACCTGGCTGGCAACGAGCAGCGCACGCT
 CATCAAGGCCATGGCATCCGCTTCGACATCATTGTGTTGGGAAGGCAGGGAAATTTGACATCATCCCC
 ACTATGATCAACATCGGCTCTGGCTGGCACTGCTAGGCATGGCGACCGTGTGTGACATCATAGTCC
 TCTACTGCATGAAGAAAAGACTCTACTATCGGGAGAAGAAATATAAATATGTGGAAGATTACGAGCAGGG
 TCTTGCTAGTGAGCTGGACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233998 representing NM_001256796
 Red=Cloning site Green=Tags(s)

MAGCCAALAAFLFEYDTPRIVLIRSARKVGLMNRVQLLILAYVIGCYHPHLAEVEMESPRRWVFWVEKGY
 QETDSVSVSVTTKVKGVAVTNTSKLGFRIWDVADYVIPAQEENSLFVMTNVILTMNQTQGLCPEIPDATT
 VCKSDASCTAGSAGTHSNGVSTGRVAFNGSVKTCVAWCPVEDDTHVPQPAFLKAAENFTLLVKNNIW
 YPKFNFSKRNIILPNITTTTLKSCYIDAKTDPFCPIFRLGKIVENAGHSFQDMAVEGGIMGIQVNWDCNLD
 RAASLCLPRYSFRRLDTRDVEHNVSPGYNFRFAKYRDLAGNEQRTLKAYGIRFDIIVFGKAGKFDIIP
 TMINIGSGLALLGMATVLCDIIVLYCMKKRLYREKKYKYVEDYEQGLASELDQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256796

ORF Size: 1212 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_001256796.2](#)

RefSeq Size: 2091 bp

RefSeq ORF: 1215 bp

Locus ID: 5025

UniProt ID: [Q99571](#)

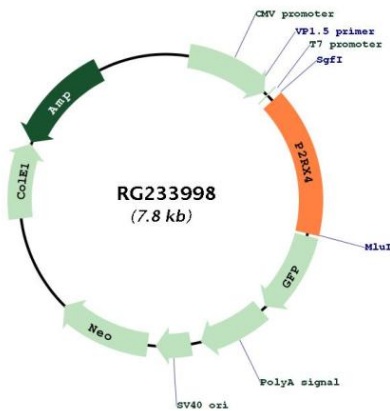
Cytogenetics: 12q24.31

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

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

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 RG233998