

Product datasheet for **RG207613**

P2RX4 (NM_002560) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2RX4 (NM_002560) 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:	>RG207613 representing NM_002560 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGCTGCTGCGCCGCGCTGGCGGCCTTCTGTTGAGTACGACACGCCGCGCATCGTGCTCATCC
GCAGCCGCAAAGTGGGGCTCATGAACCGCGCCGTGCAACTGCTCATCCTGGCCTACGTCATCGGGTGGGT
GTTTGTGTGGGAAAGGGCTACCAGGAACTGACTCCGTGGTCAGCTCCGTTACGACCAAGGTCAAGGGC
GTGGCTGTGACCAACACTTCTAACTTGGATTCCGGATCTGGGATGTGGCGGATTATGTGATACCAGCTC
AGGAGGAAAACCTCCTCTTCGTCATGACCAACGTGATCCTCACCATGAACCAGACACAGGGCCTGTGCC
CGAGATCCAGATGCGACCACTGTGTAAATCAGATGCCAGCTGTACTGCCGGCTCTGCCGGCACCCAC
AGCAACGGAGTCTCAACAGGCAGGTGCGTAGCTTCAACGGGTCCGTCAAGACGTGTGAGGTGGCGGCC
GGTGCCCGGTGGAGGATGACACACACGTGCCACAACCTGCTTTTTAAAGGCTGCAGAAAACCTCACTCT
TTTGTTAAGAACAACATCTGGTATCCCAAATTAATTCAGCAAGAGGAATATCCTTCCCAACATCACC
ACTACTTACCTCAAGTCGTGATTTATGATGCTAAAACAGATCCCTTCTGCCCATATCCGTCCTTGGCA
AAATAGTGGAGAACGCAGGACACGGTTCCAGGACATGGCCGTGGAGGGAGGCATCATGGGCATCCAGGT
CAACTGGGACTGCAACCTGGACAGAGCCGCTCCCTCTGCTTGCCAGGTAATCCTTCCGCCGCTCGAT
ACACGGGACGTTGAGCACAACGTATCCTGGCTACAATTCAGGTTTCCCAAGTACTACAGAGACTGG
CTGGCAACGAGCAGCGCACGCTCATCAAGGCCTATGGCATCCGCTTCGACATCATTGTGTTGGGAAGGC
AGGAAAATTTGACATCATCCCCACTATGATCAACATCGGCTCTGGCCTGGCACTGCTAGGCATGGCGACC
GTGCTGTGTGACATCATAGTCTCTACTGCATGAAGAAAAGACTTACTATCGGGAGAAGAAATATAAAT
ATGTGGAAGATTACGAGCAGGGTCTTGCTAGTGAGCTGGACCAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207613 representing NM_002560
 Red=Cloning site Green=Tags(s)

MAGCCAALAAFLFEYDTPRIVLIRSARKVGLMNRVQLLILAYVIGVWFVWEKGYQETDSVSSVTTKVKG
 VAVTNTSKLGFRIWDVADYVIPAQEENSLFVMTNVILTMNQTLQGLCPEIPDATTVCKSDASCTAGSAGTH
 SNGVSTGRCAVAFNGSVKCEVAAWCPVEDDTHVPQPAFLKAAENFTLLVKNNIWPYKFNFSKRNLIPNIT
 TTYLKSCIYDAKTDPPFCPIFRLGKIVENAGHGFQDMAVEGGIMGIQVNWDCNLDRAASLCLPRYSFRRLD
 TRDVEHNVSPGYNFRFAKYRDLAGNEQRTLKAYGIRFDIIVFGKAGKFDIIPMTMINIGSGLALLGMAT
 VLCDIIVLYCMKKRLYYREKKYVEDYEQGLASELDQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002560

ORF Size: 1164 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_002560.2](#), [NP_002551.2](#)

RefSeq Size: 2043 bp

RefSeq ORF: 1167 bp

Locus ID: 5025

UniProt ID: [Q99571](#)

Cytogenetics: 12q24.31

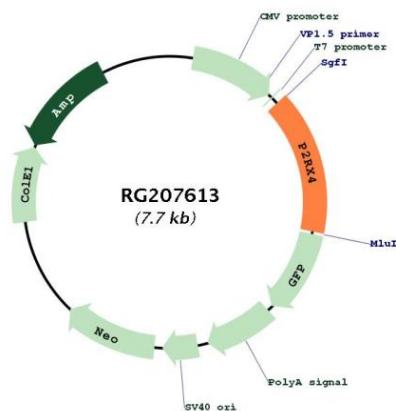
Domains: P2X_receptor

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

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

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 RG207613