

Product datasheet for **RG233977**

P2X5 (P2RX5) (NM_001204520) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | P2X5 (P2RX5) (NM_001204520) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | P2X5 |
| Synonyms: | LRH-1; P2X5; P2X5R |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG233977 representing NM_001204520 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCAGGCGGGCTGCAAGGGGCTCTGCCTGTCGCTGTTTCGACTACAAGACCGAGAAGTATGTCATCG
CCAAGAACAAGAAGGTGGGCCTGCTGTACCGGCTGCTGCAGGCCATCCATCCTGGCGTACCTGGTCTGATG
GGTGTTCCTGATAAAGAAGGGTTACCAAGACGTCGACACCTCCCTGCAGAGTGTGTCATACCAAAGTC
AAGGGCGTGGCCTTCACCAACACCTCGGATCTTGGGCAGCGGATCTGGGATGTCGCCGACTACGTCATTC
CAGCCCAGAATGAAGGCATTCTGATGGCGCTGCTCCAAGGACAGCGACTGCCACGCTGGGAAGCGGT
TACAGCTGAAACGGAGTGAAGACCGGCCGCTGCCTGCGGAGAGAGAAGTGGCCAGGGGCACCTGTGAG
ATCTTTGCCTGGTGCCCGTTGGAGACAAGCTCCAGGCCGAGGAGCCATTCTGAAGGAGCCGAAGACT
TCACCATTTTCATAAAGAACCACATCCGTTTCCCAAATCAACTTCTCCAAAAGCAATGTGATGGACGT
CAAGGACAGATCTTTCTGAAATCATGCCACTTTGGCCCCAAGAACCCTACTGCCCATCTTCCGACTG
GGCTCCGTGATCCGCTGGGCCGGGAGCGACTTCCAGGATATAGCCCTGGAGGGTGGCGTGATAGGAATTA
ATATTGAATGGAAGTGTGATCTTGATAAAGCTGCCTCTGAGTGCCACCCTCACTATTCTTTAGCCGTCT
GGACAATAAACTTTCAAAGTCTGTCTCCTCCGGGTACAACCTCAGATTTGCCAGATATTACCGAGACGCA
GCCGGGTGGAGTCCGCACCCTGATGAAAGCCTACGGGATCCGCTTTGACGTGATGGTGAACGGCAAGG
GTGCTTTCTTCTGCGACCTGGTACTCATCTACCTCATCAAAAAGAGAGAGTTTTACCGTGACAAGAAGTA
CGAGGAAGTGAGGGCCCTAGAAGACAGTCCCAGGAGGCCGAGGACGAGGCATCGGGGCTGGGGCTATCT
GAGCAGCTCACATCTGGGCCAGGGCTGCTGGGATGCCGGAGCAGCAGGAGCTGCAGGAGCCACCCGAGG
CGAAGCGTGGAAGCAGCAGTCAGAAGGGGAACGGATCTGTGTGCCACAGCTCCTGGAGCCCCACAGGAG
CACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233977 representing NM_001204520
Red=Cloning site Green=Tags(s)

MGQAGCKGLCLSLFDYKTEKYVIAKNKKVGLLYRLLQASILAYLVVWVFLIKKGYQDVDTSLQSAVITKV
 KGVAFNTNTSDLGQRIWDVADYVIPAQNEGIPDGACSKSDCHAGEAVTAGNGVKTGRCLRRENLARGTCE
 IFAWCPLETSSRPEEPFLKEAEDFTIFIKNHIRFPKFNFKSNVMDVKDRSFLKSCHFGPKNHYCPIFRL
 GSVIRWAGSDFQDIALEGGVIGINIEWNCDLKAASECHPHYFSRLDNKLSKSVSSGYNFRFARYYRDA
 AGVEFRTLKAYGIRFDVMVNGKAFFCDLVLIIYLIIKKREFYRDKKYEEVRGLEDSSQEADEASGLGLS
 EQLTSGPGLLGMPQQELQEPPEAKRGSSSQKNGSVCPQLLEPHRST

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001204520

ORF Size: 1194 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_001204520.2](#)

RefSeq Size: 2269 bp

RefSeq ORF: 1197 bp

Locus ID: 5026

UniProt ID: [Q93086](#)

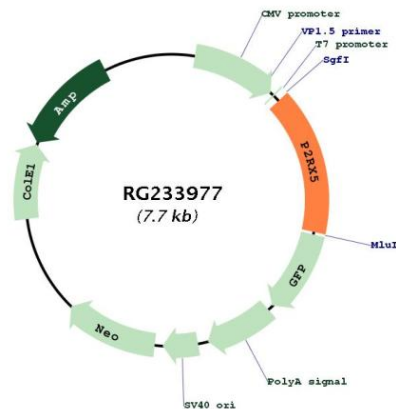
Cytogenetics: 17p13.2

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. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the neighboring downstream gene, TAX1BP3 (Tax1 binding protein 3). [provided by RefSeq, Mar 2011]

Product images:



Circular map for RG233977