

Product datasheet for **RG207923**

P2X5 (P2RX5) (NM_002561) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: P2X5 (P2RX5) (NM_002561) 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: >RG207923 representing NM_002561
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGCAGGCGGGCTGCAAGGGGCTCTGCCTGTCGCTGTTTCGACTACAAGACCGAGAAGTATGTCATCG
 CCAAGAACAAGAAGGTGGGCCTGCTGTACCGGCTGCTGCAGGCCCTCCATCCTGGCGTACCTGGTCGTATG
 GGTGTTCTGATAAAGAAGGGTTACCAAGACGTCGACACCTCCCTGCAGAGTGTGTCATACCAAAGTC
 AAGGGCGTGGCCTTACCAACACCTCGGATCTTGGCAGCGGATCTGGGATGTCGCCGACTACGTCATTC
 CAGCCCAGGGAGAGAACGCTTTTTTTGTGGTACCAACCTGATTGTGACCCCAACCAGCGGCAGAACGT
 CTGTGCTGAGAAATGAAGGCATTCCTGATGGCGCGTGTCCAAGGACAGCGACTGCCACGCTGGGGAAGCG
 GTTACAGCTGAAACGGAGTGAAGACCGCCGCTGCCTGCGGAGAGAGAACTTGGCCAGGGGCACCTGTG
 AGATCTTTGCCTGGTGCCTGTTGGAGACAAGCTCCAGGCCGAGGAGCCATTCCTGAAGGAGGCCGAAGA
 CTTACCAATTTTCATAAAGAACCACATCCGTTTCCCAAATTCAACTTCTCCAAAAGCAATGTGATGGAC
 GTCAAGGACAGATCTTTCCTGAAATCATGCCACTTGGCCCAAGAACCCTACTGCCCATCTCCGAC
 TGGGCTCCGTGATCCGCTGGGCCGGGAGCGACTCCAGGATATAGCCCTGGAGGGTGGCGTGATAGGAAT
 TAATATTGAATGGAAGTGTGATCTTGATAAAGCTGCCTCTGAGTGCCACCCTCACTATTCTTTAGCCGT
 CTGGACAATAAACTTTCAAAGTCTGTCTCCTCCGGTACAACCTCAGATTTGCCAGATATTACCGAGAGC
 CAGCCGGGTGGAGTTCCGCACCCTGATGAAAGCCTACGGGATCCGCTTTGACGTGATGGTGAACCGCAA
 GGGTGCTTTCTTCTGCGACCTGGTACTCATCTACCTCATCAAAAAGAGAGATTTTACCCTGACAAGAAG
 TACGAGGAAGTGAGGGCCTAGAAGACAGTTCCAGGAGGCCGAGGACGAGGCATCGGGCTGGGCTAT
 CTGAGCAGCTCACATCTGGCCAGGGCTGCTGGGATGCCGGAGCAGCAGGAGCTGCAGGAGCCACCCGA
 GGCGAAGCGTGAAGCAGCAGTCAGAAGGGGAACGGATCTGTGTGCCACAGCTCCTGGAGCCCCACAGG
 AGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207923 representing NM_002561
Red=Cloning site Green=Tags(s)

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MGQAGCKGLCLSLFDYKTEKYVIAKNKKVGLLYRLLQASILAYLVVWVFLIKKGYQDVDTSLQSAVITKV
KGVAFTNTSDLGQRIWDVADYVIPAQGENVFFVVTNLIVTPNQVNCAENEGIPDGACSKDSDCHAGEA
VTAGNGVKTGRCLRRENLRGTCEIFAWCPLETSSRPEEPFLKEAEDFTIFIKNHIRFPKFNFSKSNVMD
VKDRSFLKSCHFPGPKNHYPICIFRLGSVIRWAGSDFQDIALEGGVIGINIEWNCDLDKAASECHPHYSFSR
LDNKLKSVSSGYNFRFARYRDAAGVEFRTLKAYGIRFDVMVNGKGAFFCDLVLIIYLIKREFYRDKK
YEEVRGLEDDSSQEAEDAASGLGLSEQLTSGPGLLGMPQQELQEPPEAKRGSSSQKNGSVCPQLLEPHR
ST
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002561

ORF Size: 1266 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_002561.4](#)

RefSeq Size: 2206 bp

RefSeq ORF: 1269 bp

Locus ID: 5026

UniProt ID: [Q93086](#)

Cytogenetics: 17p13.2

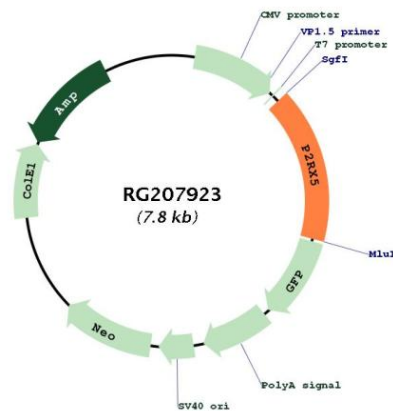
Domains: P2X_receptor

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. 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 RG207923