

Product datasheet for **RG234047**

P2X5 (P2RX5) (NM_001204519) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: P2X5 (P2RX5) (NM_001204519) 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: >RG234047 representing NM_001204519
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGGGCAGGCGGGCTGCAAGGGGCTCTGCCTGTCGCTGTTTCGACTACAAGACCGAGAAGTATGTCATCG
 CCAAGAACAAGAAGGTGGGCTGCTGTACCGGCTGCTGCAGGCCATCCTGGCGTACCTGGTCGATG
 GGTGTTCTGATAAAGAAGGGTTACCAAGACGTCGACACCTCCCTGCAGAGTGTGTCATACCAAAGTC
 AAGGGCGTGGCCTTCACCAACACCTCGGATCTTGGCAGCGGATCTGGGATGTCGCCGACTACGTCATTC
 CAGCCCAGGGAGAGAACGCTTTTTTTGTGGTCACCAACCTGATTGTGACCCCAACCAGCGGCAGAACGT
 CTGTGCTGAGAAATGAAGGCATTCCTGATGGCGCGTGTCCAAGGACAGCGACTGCCACGCTGGGGAGCG
 GTTACAGCTGAAACGGAGTGAAGACCGCCGCTGCCTGCGGAGAGAGAACTTGGCCAGGGGCACCTGTG
 AGATCTTTGCCTGGTGCCTGTTGGAGACAAGCTCCAGGCCGAGGAGCCATTCCTGAAGGAGGCCGAAGA
 CTTACCAATTTTCATAAAGAACCACATCCGTTTCCCAAAATCAACTTCTCCAACAATGTGATGGACGTC
 AAGGACAGATCTTTCTGAAATCATGCCACTTTGGCCCAAGAACCCTACTGCCCATCTTCCGACTGG
 GCTCCGTGATCCGCTGGGCCGGGAGCGACTTCCAGGATATAGCCCTGGAGGGTGGCGTGATAGGAATTA
 TATTGAATGGAAGTGTGATCTTGATAAAGCTGCCTCTGAGTGCCACCCTCACTATTCTTTAGCCGTCG
 GACAATAAACTTTCAAAGTCTGTCTCCTCCGGGTACAACCTCAGATTTGCCAGATATTACCGAGACGCG
 CCGGGTGGAGTTCCGCACCCTGATGAAAGCCTACGGGATCCGCTTTGAGGTGATGGTGAACGGCAAGGG
 TGCTTTCTTCTGCGACCTGGTACTCATCTACCTCATCAAAAAGAGAGAGTTTTACCGTGACAAGAAGTAC
 GAGGAAGTGAAGGGCCTAGAAGACAGTTCCAGGAGGCCGAGGACGAGGCATCGGGGCTGGGGCTATCTG
 AGCAGCTCACATCTGGCCAGGGCTGCTGGGGATGCCGGAGCAGCAGGAGCTGCAGGAGCCACCCGAGGC
 GAAGCGTGAAGCAGCAGTCAGAAGGGGAACGGATCTGTGTGCCACAGCTCCTGGAGCCCCACAGGAGC
 ACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG234047 representing NM_001204519
Red=Cloning site Green=Tags(s)

MGQAGCKGLCLSLFDYKTEKYVIAKNKKVGLLYRLLQASILAYLVVWVFLIKKGYQDVDTSLQSAVITKV
 KGVAFTNTSDLGQRIWDVADYVIPAQGENVFFVVTNLIVTPNQRONVCAENEGIPDGACSKDSDCHAGEA
 VTAGNGVKTGRCRLRRENLRGTCEIFAWCPLETSSRPEEPFLKEAEDFTIFIKNHIRFPKFNFSNNVMDV
 KDRSFLKSCHFGPKNHYCPIFRLGSVIRWAGSDFQDIALEGGVIGINIEWNCDLKAASECHPHYSFRL
 DNKLSKSVSSGYNFRFARYYRDAAGVEFRITLMKAYGIRFDVMVNGKGAFFCDLVL IYL IKKREFYRDKKY
 EEVRGLEDSSQEAEDAASGLGLSEQLTSGPGLLMPEQQELQEPPEAKRGSSSQKNGSVCPQLLEPHRS
 T

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001204519

ORF Size: 1263 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_001204519.2](#)

RefSeq Size: 2338 bp

RefSeq ORF: 1266 bp

Locus ID: 5026

UniProt ID: [Q93086](#)

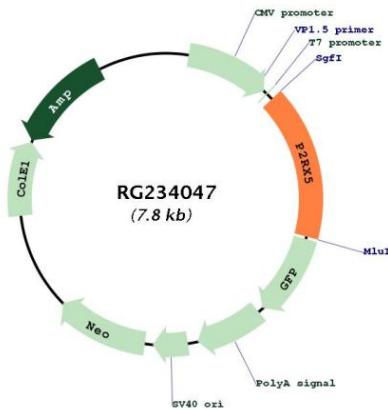
Cytogenetics: 17p13.2

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 RG234047