

Product datasheet for **RG216207**

P2X2 (P2RX2) (NM_170682) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2X2 (P2RX2) (NM_170682) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P2X2
Synonyms:	DFNA41; P2X2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG216207 representing NM_170682
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCGCGCCAGCCCAAGTACCCCGCGGGGCGACCGCCGCGCCCTGGCCCGGGCTGCTGGTCCG
 CCCTCTGGGACTACGAGACGCCAAGGTGATCGTGGTGAGGAACCGCGCCTGGGGTCTGTACCGCGC
 CGTGACGCTGCTCATCTGCTCTACTTCGTGTGGTACGTATTCATCGTGCAGAAAAGCTACCAGGAGAGC
 GAGACGGGCCCGAGAGCTCCATCATCACCAAGGTCAAGGGGATCACCACGTCCGAGCACAAAGTGTGGG
 ACGTGGAGGAGTACGTGAAGCCCCGAGGGGGGACGCGTGTTCAGCATCATCACCAGGGTCGAGGCCAC
 CCACTCCCAGACCCAGGGAACCTGCCCGAGAGCATAAGGGTCCACAACGCCACCTGCCTCTCCGACGCC
 GACTGCGTGGCTGGGAGCTGGACATGCTGGGAAACGGCCTGAGGACCGGGCGCTGTGTGCCCTATTACC
 AGGGGCCCTCCAAGACCTGCGAGGTGTTCCGCTGGTCCCGGTGGAAGATGGGGCCTCTGTACGCCAATT
 TCTGGGTACGATGGCCCAAATTCACCATCCTCATCAAGAACAGCATCCACTACCCCAAATTCACCTTC
 TCCAAGGCAACATCGCCGACCGCACAGACGGGTACCTGAAGCGCTGCAGTTCCACGAGGCCTCCGACC
 TCTACTGCCCCATCTTCAAGCTGGGCTTATCGTGGAGAAGGCTGGGGAGAGCTTACAGAGCTCGCACA
 CAAGGGTGGTGTATCGGGTCAATCAACTGGGACTGTGACCTGGACCTGCCTGCATCGGAGTGAAC
 CCCAAGTACTCCTCCGGAGGCTTGACCCCAAGCACGTGCCTGCCTCGTACGGCTACAATTCAGGTTTG
 CCAAACTACAAGATCAATGGCACCACCACCCGACGCTCATCAAGGCCTACGGGATCCGCATTGACGT
 CATTGTGCATGGACAGCCGGGAAGTTCAGCCTGATTCCACCATTATTAATCTGGCCACAGCTCTGACT
 TCCGTCCGGGTGGGCTCCTTCTGTGCGACTGGATCTTGCTAACATTATGAACAAAAACAAGGTCTACA
 GCCATAAGAAATTTGACAAGGTGTGACGCCGAGCCACCCCTCAGGTAGCTGGCCTGTGACCTTGCCCG
 TGTATTGGCCAGGCCCTCCCGAACCCGGCCACCGCTCCGAGGACCAGCACCCAGCCCTCCATCAGGC
 CAGGAGGGCCAACAAGGGGACAGGTGTGGCCAGCCTTCCCGCCCTGCGGCCTTGCCCATCTCTGCC
 CTTCTGAGCAGATGGTGGACTCCTGCCTCCGAGCCTGCCAAGCCTCCACACCACAGACCCCAAAGG
 TTTGGCTCAACTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG216207 representing NM_170682
 Red=Cloning site Green=Tags(s)

MAAAQPKYPAGATARRLARGCWSALWDYETPKVIIVRNRRRLGVL YRAVQLL ILLYFVWYV FIVQKSYQES
 ETGPESSII TKVKGIT TSEHKVWDVEEYVKPEGGSVFSII TRVEATHSQTQGTCPESIRVHNATCLSDA
 DCVAGELDMLGNLRTGRCPYYPYQGPSKTCEVFGWCPVEDGASVSQFLGTMAPNF TILIKNSIHYPKFHF
 SKGNIADRTDGYLKRCTFHEASDLYCPIFKLGFIVEKAGESFTELAHKGGVIGVIINWDCDLDPASECN
 PKYSFRRLDPKHVPASSGYNFRFAKYKINGTTTRTLIKAYGIRIDVIVHGQAGKFSLIPTIINLATALT
 SVGVGSFLCDWILLTFMKNKVVYSHKFKDKVCTPSHPSGWPVTLARVLGQAPPEPGHRSEDQHPSPSPSG
 QEQQGAECGPAFPPLRPCISAPSEQMVDTPASEPAQASTPTDPKGLAQL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_170682

ORF Size: 1413 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_170682.2](#), [NP_733782.1](#)

RefSeq Size: 1830 bp

RefSeq ORF: 1416 bp

Locus ID: 22953

UniProt ID: [Q9UBL9](#)

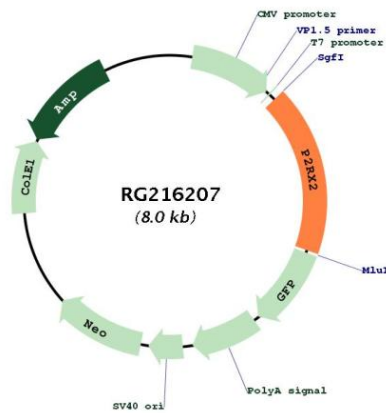
Cytogenetics: 12q24.33

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. Binding to ATP mediates synaptic transmission between neurons and from neurons to smooth muscle. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG216207