

Product datasheet for **RG216261**

P2X2 (P2RX2) (NM_170683) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2X2 (P2RX2) (NM_170683) 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)



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ORF Nucleotide Sequence:

>RG216261 representing NM_170683
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGCGCCAGCCCAAGTACCCCGCGGGCGACCGCCGCGCCTGGCCCGGGCTGCTGGTCCG
 CCCTCTGGGACTACGAGACGCCAAGGTGATCGTGGTGAGGAACCGCGCCTGGGGTCTGTACCGCGC
 CGTGACAGTCTCATCTCTACTTCGTGTGTGACGTATTCATCGTGCAGAAAAGCTACCAGGAGAGC
 GAGACGGGCCCGAGAGCTCCATCATCACCAAGGTCAAGGGGATCACCACGTCCGAGCACAAAGTGTGGG
 ACGTGGAGGAGTACGTGAAGCCCCGAGGGGGCAGCGTGTTCAGCATCATCACCAGGGTCGAGGCCAC
 CCACTCCCAGACCCAGGGAACCTGCCCGAGAGCATAAGGGTCCACAACGCCACCTGCCTCTCCGACGCC
 GACTGCGTGGCTGGGAGCTGGACATGCTGGGAAACGGCCTGAGGACTGGGCGCTGTGTGCCCTATTACC
 AGGGGCCCTCCAAGACCTGCGAGGTGTTCCGGCTGGTCCCGGTGGAAGATGGGGCCTCTGTCAGCCAATT
 TCTGGGTACGATGGCCCAAATTCACCATCCTCATCAAGAACAGCATCCACTACCCCAAATTCACCTTC
 TCCAAGGCAACATCGCCGACCGCACAGACGGGTACCTGAAGCGCTGCAGTTCCACGAGGCCTCCGACC
 TCTACTGCCCCATCTTAAGCTGGGCTTATCGTGGAGAAGGCTGGGGAGAGCTTACAGAGCTCGCACA
 CAAGGGTGGTGTATCGGGTCAATCAACTGGGACTGTGACCTGGACCTGCCTGCATCGGAGTGAAC
 CCCAAGTACTCCTCCGGAGGCTTGACCCCAAGCACGTGCCTGCCTCGTCAAGGCTACCGGATCCGCATTGACGT
 CAAATACTACAAGATCAATGGCACCACCACCCGACGCTCATCAAGGCTACGGGATCCGCATTGACGT
 CATTGTGCATGGACAGGCCGGGAAGTTCAGCCTGATTCCACCATTATTAATCTGGCCACAGCTCTGACT
 TCCGTCCGGGTGGTAAGGAACCTCTCTGGGTCCCAGCGGTGCGGGGGTCCACCAGGCCCTTACACA
 CCGGTCTCTGCTGGCCAGGCTCCTCTGTGCGACTGGATCTTCTAACATTCATGAACAAAAACAA
 GGCTACAGCCATAAGAAATTTGACAAGGTGTGTACGCCGAGCCACCCCTCAGGTAGCTGGCCTGTGACC
 CTTGCCGTGATTGGGCCAGGCCCTCCGAACCCGGCCACCGCTCCGAGGACCAGCACCCAGCCCTC
 CATCAGGCCAGGAGGCCAACAAGGGGCAGAGTGTGGCCAGCCTTCCCGCCCTGCGGCCTTGCCCAT
 CTCTGCCCTTCTGAGCAGATGGTGGACACTCCTGCCTCCGAGCCTGCCAAGCCTCCACACCACAGAC
 CCCAAAGGTTGGCTCAACTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG216261 representing NM_170683
 Red=Cloning site Green=Tags(s)

MAAAQPKYPAGATARRLARGCWSALWDYETPKVIIVRNRRLGVL YRAVQLL ILL YFVWYVFIVQKSYQES
 ETGPESSIIITKVKGITTTSEHKVWDVEEYVKPEGGSVFSIITRVEATHSQTQGTCPESIRVHNATCLSDA
 DCVAGELDMLGNLRTGRCVPYYQGPSKTCEVFGWCPVEDGASVSQFLGTMAPNFTILIKNSIHYPKFHF
 SKGNIADRTDGYLKRCTFHEASDLYCPIFKLGFIVEKAGESFTELAHKGGVIGVIINWDCDLDPASECN
 PKYSFRRLDPKHVPASSGYNFRFAKYYKINGTTTTRTLIKAYGIRIDVIVHQAGKFSLIPTIINLATALT
 SVGVVRNPLWGPSGCGSTRPLHTGLCWPGSFLCDWILLTFMKNKNVYSHKFKDKVCTPSHPSGWPVT
 LARVLGQAPPEPGHRSEDQHPSPSQEGQQAECGPAFPPLRPCISAPSEQMVDTPASEPAQASTPTD
 PKGLAQL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_170683

ORF Size: 1491 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_170683.4](#)

RefSeq Size: 1908 bp

RefSeq ORF: 1494 bp

Locus ID: 22953

UniProt ID: [Q9UBL9](#)

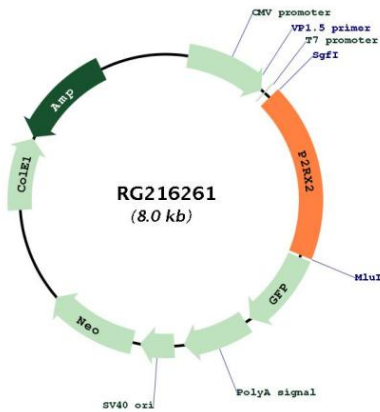
Cytogenetics: 12q24.33

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 RG216261