

Product datasheet for **RG207924**

P2X1 (P2RX1) (NM_002558) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2X1 (P2RX1) (NM_002558) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P2X1
Synonyms:	P2X1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207924 representing NM_002558 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACGGCGTTCCAGGAGGAGCTGGCCGCTTCTCTTCGAGTATGACACCCCCGCATGGTGTCTGG
TGCGTAATAAGAAGGTGGGCGTTATCTCCGACTGATCCAGCTGGTGGTCTGGTCTACGTCATCGGGT
GGTGTCTCTATGAGAAGGGCTACCAGACCTCGAGCGGCTCATCAGCAGTGTCTCTGTGAACTCAAG
GGCCTGGCGTGACCCAGCTCCCTGGCCTCGGCCCCAGGTCTGGGATGTGGCTGACTACGTCTCCAG
CCCAGGGGACAACCTCCTCGTGGTCATGACCAATTTTCATCGTGACCCCGAAGCAGACTCAAGGCTACTG
CGCAGAGCACCCAGAAGGGGCATATGCAAGGAAGACAGTGGCTGTACCCCTGGGAAGGCCAAGAGGAAG
GCCAAGGCATCCGCACGGGCAAGTGTGTGGCCTCAACGACACTGTGAAGACGTGTGAGATCTTTGGCT
GGTGGCCCGTGGAGGTGGATGACGACATCCCGCGCCCTGCCCTTCTCCGAGAGGCCGAGAAGTTCCTCT
TTTCATCAAGAACAGCATCAGCTTTCCACGCTTCAAGGTCAACAGGCGCAACCTGGTGGAGGAGGTGAAT
GCTGCCACATGAAGACCTGCCTTTTCAAGACCTGCACCCCTGTGCCAGTCTTCCAGCTTGGCT
ACGTGGTGCAAGAGTCAGGCCAGAACTTCAACACCTGGCTGAGAAGGGTGGAGTGGTGGCATCACCAT
CGACTGGCACTGTGACCTGGACTGGCACGTACGGCACTGCAGACCCATCTATGAGTCCATGGGCTGTAC
GAAGAGAAAAATCTCTCCCAGGCTTCAACTTCAGGTTTGCCAGGCACTTGTGGAGAACGGGACCAACT
ACCGTCACCTCTTCAAGGTGTTTGGGATTCGCTTTGACATCCTGGTGGACGGCAAGGCCGGGAAGTTTGA
CATCATCCCTACAATGACCACCTCGGCTCTGGAATTGGCATCTTTGGGTGGCCACAGTCTCTGTGAC
CTGCTGTCTTACATCCTGCCTAAGAGGCACTACTACAAGCAGAAGAAGTTCAAATACGCTGAGGACA
TGGGGCCAGGGCGGCTGAGCGTGACCTCGCAGCTACCAGCTCCACCCTGGGCTGCAGGAGAACATGAG
GACATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207924 representing NM_002558
Red=Cloning site Green=Tags(s)

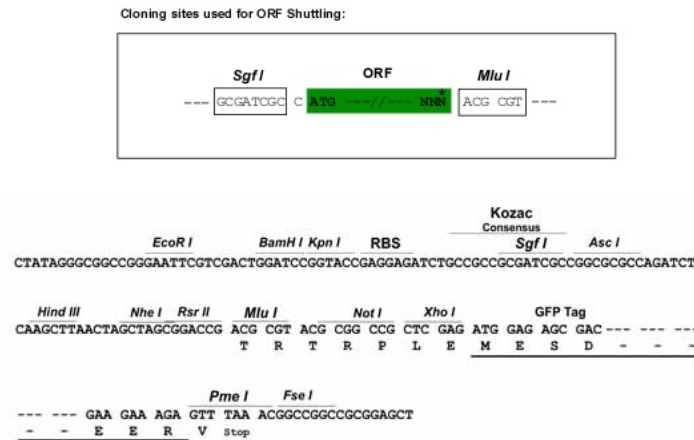
MARRFQEELA AFLFEYDTPRMVLVRNKKVGVIFRLIQLVVLVYVIGWVFLYEKGYQTSSGLISSVSVKLLK
 GLAVTQLPGLGPQVWDVADYVFPAQGDNSFVVMNTNFIVTPKQTQGYCAEHPEGGICKEDSGCTPGKAKRK
 AQGIRTGKCVAFNDTVKTC EIFGWCPVEVDDIPRPALLREAENFTLF IKNSISFPRFKVNRRLVEEVN
 AAHMKTCLFHKT LHPLCPVFQLGYVVQESGQNFSTLAEKGGVVGITIDWHCDLDWHVHRHCRPIYEFHGLY
 EEKNLSPGFNFRFARHFVENG TN YRHLFKVFGIRFDILVDGKAGKFDI IPTMTTIGSGIGIFGVATVLC D
 LLLLHILPKRHYYKQKKFKYAEDMGPGAERDLAATSSTLGLQENMRTS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_002558

ORF Size: 1197 bp

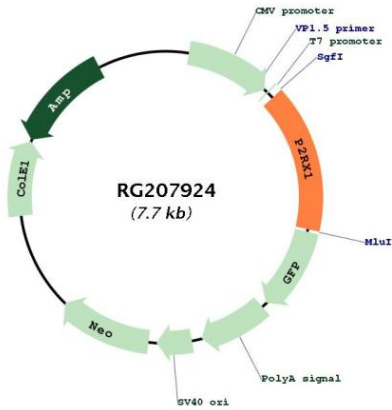
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_002558.4
RefSeq Size:	2910 bp
RefSeq ORF:	1200 bp
Locus ID:	5023
UniProt ID:	P51575
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:	<p>The protein encoded by this gene belongs to the P2X family of G-protein-coupled receptors. These proteins can form homo- and heterotimers and function as ATP-gated ion channels and mediate rapid and selective permeability to cations. This protein is primarily localized to smooth muscle where it binds ATP and mediates synaptic transmission between neurons and from neurons to smooth muscle and may be responsible for sympathetic vasoconstriction in small arteries, arterioles and vas deferens. Mouse studies suggest that this receptor is essential for normal male reproductive function. This protein may also be involved in promoting apoptosis. [provided by RefSeq, Jun 2013]</p>

Product images:



Circular map for RG207924