

Product datasheet for **RG219600**

P2X2 (P2RX2) (NM_174872) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2X2 (P2RX2) (NM_174872) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P2RX2
Synonyms:	DFNA41; P2X2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219600 representing NM_174872 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCCGCCAGCCCAAGTACCCCGCGGGGCGACCGCCCGCGCCTGGCCCGGGCTGCTGGTCCG
CCCTCTGGGACTACGAGACGCCAAGGTGATCGTGAGCATAAGGGTCCACAACGCCACCTGCCTCTCCGA
CGCCGACTGCGTGGCTGGGAGCTGGACATGCTGGAAACGGCCTGAGGACTGGGCGCTGTGTGCCCTAT
TACCAGGGGCCCTCCAAGACCTGCGAGGTGTTGCGCTGGTGCCCGGTGGAAGATGGGCTCTGTACGCC
AATTTCTGGGTACGATGGCCCCAATTTACCATCCTCATCAAGAACAGCATCCACTACCCCAAATTTCCA
TTCTCCAAGGGCAACATCGCCGACCGCACAGACGGGTACCTGAAGCGCTGCACGTTCCACGAGGCCTCC
GACCTCTACTGCCCATCTTCAAGCTGGGCTTTATCGTGGAGAAGGCTGGGGAGAGCTTCACAGAGCTCG
CACACAAGGGTGGTGTACATCGGGGTCATTATCAACTGGGACTGTGACCTGGACCTGCCTGCATCGGAGTG
CAACCCCAAGTACTCCTTCCGGAGGCTTGACCCCAAGCACGTGCCTGCCTCGTCAGGCTACAACCTCAGG
TTTGCCAAATACTACAAGATCAATGGCACCACCACCCGCACGCTCATCAAGGCCTACGGGATCCGCATTG
ACGTATTGTGCATGGACAGGCCGGGAAGTTCAGCCTGATTCCCACCATTAATCTGGCCACAGCTCT
GACTTCGTCGGGGTGGGCTCCTTCTGTGCGACTGGATCTTGCTAACATTATGAACAAAAACAAGGTC
TACAGCCATAAGAAATTTGACAAGGTGTGACGCCGAGCCACCCCTCAGGTAGCTGGCCTGTGACCCCTTG
CCCGTGATTGGGCCAGGCCCTCCCGAACCCGCGCCACCCTCCGAGGACCCAGCACCCAGCCCTCCATC
AGGCCAGGAGGGCCAACAAGGGGAGAGTGTGGCCAGCCTTCCCGCCCTGCGGCTTGCCCCATCTCT
GCCCTTCTGAGCAGATGGTGGACTCCTGCCTCCGAGCCTGCCAAGCCTCCACACCCACAGACCCCA
AAGTTTTGGTCAACTC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG219600 representing NM_174872
 Red=Cloning site Green=Tags(s)

MAAAQPKYPAGATARRLARGCWSALWDYETPKVIVSIRVHNATCLSDADCVAGELDMLGNLRTGRCVPY
 YQGPSKTCEVFGWCPVEDGASVSQFLGTMAPNFILIKNSIHYPKFHFHFKGNIADRTDGYLKRCTFHEAS
 DLYCPIFKLGFIVEKAGESFTELAHKGGVIGVIINWDCDLDPASECNPKYSFRRLDPKHVPASSGYNFR
 FAKYYKINGTTTTRTLKAYGIRIDVIVHGQAGKFSLIPTIINLATALTSVGVGSFLCDWILLTFMKNKVK
 YSHKKFDKVCPTSPHSGSWPVTLARVLGQAPPEPGHRSEHQHPSPPSGQEGQQAECGPAFPPLRCPIS
 APSEQMVDTPASEPAQASTPTDPKGLAQL

TRTRPLE - GFP Tag - V

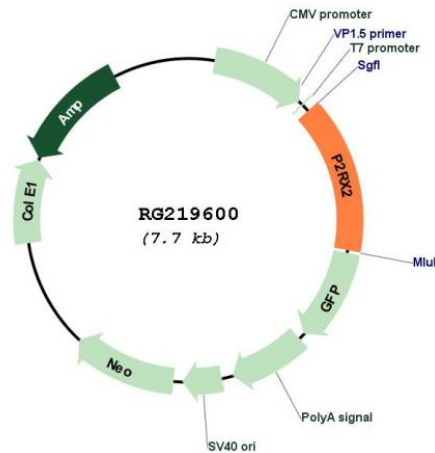
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_174872

ORF Size:	1137 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.
RefSeq:	NM_174872.3
RefSeq Size:	1554 bp
RefSeq ORF:	1140 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]