

Product datasheet for **RG218626**

P2X3 (P2RX3) (NM_002559) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2X3 (P2RX3) (NM_002559) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P2X3
Synonyms:	P2X3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218626 representing NM_002559 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTGCATATCCGACTTCTTACCTATGAGACCACCAAGTCGGTGGTTGTGAAGAGCTGGACCATCG
GGATCATCAACCGAGTAGTTCAGCTTCTGATCATCTCCTACTTTGTAGGGTGGTTTTCTTGACGAGAA
GGCTTACCAGGTACGGGACACAGCCATTGAGTCTCGGTGGAACCAAGGTGAAGGGCTCCGGACTCTAC
GCCAACAGAGTCATGGATGTGTCTGATTACGTGACGCCACCTCAGGGCACCTCGGTCTTTGTCATCATCA
CCAAGATGATTGTTACTGAAAATCAGATGCAAGGATTCTGCCAGAGAGTGAGGAGAAAATACCGCTGTGT
ATCAGACAGCCAGTGCAGGCTGAGCGCTTGCCAGGTGGGGGATCCTCACTGGCCGCTGCGTGAACCTAC
AGCTCTGTGCTCCGGACCTGTGAGATCCAGGGCTGGTGCACCGAGGTGGACACAGTGGAAAACGCCCA
TCATGATGGAAGCTGAGAATCTCACTATTTTATCAAGAACAGCATCCGTTTCCCCTCTTCAACTTTGA
GAAGGGAAACCTCCTTCCAACCTGACAGCCAGGGACATGAAGACCTGCCGCTTCCACCCGGACAAGGAC
CCTTTCTGCCCATCTTGCAGGTAGGGGACGTGGTCAAGTTTGCAGGGCAGGATTTGCCAACTGGCGC
GCACGGGGGAGTCTGGGCATTAAGATCGGCTGGGTGTGCGACTTGACAAGGCTGGGACCAAGTGCAT
CCCCAAATACTCCTTACCCGGCTGACAGCGTTTCTGAGAAAAGCAGCGTGTCCCAGGCTACAATTC
AGGTTTGCAGTACTACAAAATGAAAATGGCAGTGAATACCGACCCCTCTGAAGGCTTTTGGCATCC
GCTTCGACGTGCTGGTATACGGGAATGCTGGCAAGTTCAACATCATCCCCACCATCATCAGCTCTGTGGC
GGCCTTACTTCTGTGGGAGTGGAACTGTTCTCTGTGACATCATCCTGTCAACTTCTCAAGGGGCC
GACCAAGTACAAGCCAAGAAGTTTGAAGAGGTGAATGAGACTACACTGAAAATCGCGCTTTGACCAACC
CAGTGTACCCAGCGACCAAGACAGTGGAGAAGCAGTCCACCGATTCCGGGGCCTTCTCCATAGGCCA
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218626 representing NM_002559
 Red=Cloning site Green=Tags(s)

MNCISDFFTYETTKSVVVKSWTIGIINRVVQLLIISYFVGWVFLHEKAYQVRDTAIESSVTVKVKGSGLY
 ANRVMDVSDYVTPPQGTSVFVIIITKMIVTENQMCGFCPESEEKYRCVSDSQCGPERLPGGGILTGRCVNY
 SSVLRTCEIQGWCPTEVDTVETPIMMEAENFTIFIKNSIRFPLNFEKGNLLPNLTARDMKTCRFHDPKD
 PFCPILRVGDVVKFAQQDFAKLARTGGVLGIKIGWVCDLKAQDQCIPKYSFTRLDSVSEKSSVSPGYNF
 RFAKYKMEGSEYRLLKAFGIRFDVLYYGNAGKFNIIPITIISSVAAFTSVGVGTVLCIDIILLNFKLGA
 DQYKAKKFEEVNETTLKIAALTNPVYPSDQTTVEKQSTDSGAFSIGH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002559

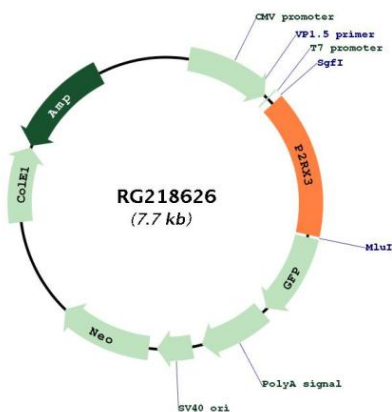
ORF Size: 1191 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_002559.2, NP_002550.2</u>
RefSeq Size:	1349 bp
RefSeq ORF:	1194 bp
Locus ID:	5024
UniProt ID:	<u>P56373</u>
Cytogenetics:	11q12.1
Protein Families:	Druggable Genome, Ion Channels: ATP Receptors, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction
Gene Summary:	This gene encodes a member of the P2X purinergic receptor (purinoceptor) gene family which includes seven members (P2RX1 - P2RX7). P2X purinoceptors are a family of cation-permeable, ligand-gated ion channels that open in response to the binding of extracellular adenosine 5'-triphosphate (ATP). The encoded protein is a subunit of the trimeric P2X3 receptor ion channel which is expressed by sensory or autonomic neurons. A deficiency of the orthologous protein in mice is associated with reduced pain-related behavior and urinary bladder hyporeflexia. [provided by RefSeq, Aug 2017]

Product images:


Circular map for RG218626