

## Product datasheet for **RG237634**

### **P2X2 (P2RX2) (NM\_001282165) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	P2X2 (P2RX2) (NM_001282165) 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)
ORF Nucleotide Sequence:	>RG237634 representing NM_001282165. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCGCGCCAGCCCAAGTACCCCGCGGGGCGACCGCCGGCGCCTGGCCCGGGGCTGCTGGTCC
GCCCTCTGGGACTACGAGACGCCAAGGTGATCGTGGTGAAGAACCGGCGCCTGGGGTCTGTACCGC
GCCGTGCAGCTGCTCATCTGCTCTACTTCGTGTGGTACGTATTCATCGTGCAGAAAAGTACCAGGAG
AGCGAGACGGGCCCCGAGAGCTCCATCATCAACCAAGTCAAGGGGATCACCACGTCGAGCACAAAGTG
TGGGACGTGGAGGAGTACGTGAAGCCCCCGAGGGGGCAGCGTGTTCAGCATCATCACCAGGGTCGAG
GCCACCCACTCCCAGACCAGGGAACCTGCCCCGAGAGCATAAGGGTCCACAACGCCACCTGCCTCTCC
GACGCCGACTGCGTGGCTGGGGAGCTGGACATGCTGGGAAACGGCCTGAGGACTGGGCGCTGTGTGCC
TATTACCAGGGGCCCTCCAAGACCTGCGAGGTGTTCCGGCTGGTGCCCGGTGGAAGATGGGGCCTCTGTC
AGCCAATTTCTGGGTACGATGGCCCAAATTTACCATCCTCATCAAGAACAGCATCCACTACCCAAA
TTCCACTTCTCCAAGGGCAACATCGCCGACCGCACAGACGGGTACCTGAAGCGCTGCACGTTCCACGAG
GCCTCCGACCTCTACTGCCCCATCTTCAAGCTGGGCTTTATCGTGGAGAAGGCTGGGGAGAGCTTACA
GAGCTCGACACAAGGGTGGTGTATCGGGGTATTATCAACTGGGACTGTGACCTGGACCTGCCTGCA
TCGGAGTGCAACCCCAAGTACTCCTTCCGGAGGCTTGACCCCAAGCACGTGCCTGCCTCGTCAGGCTAC
AACTTCAGGTTTGCCAAATACTACAAGATCAATGGCACCACCACCGCACGCTCATCAAGGCCTACGGG
ATCCGCATTGACGTCATTGTGCATGGACAGGTGCCTGCACCTGCTGGGGCCGGGAAGTTCAGCCTGAT
TCCCACCATTAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237634  
 Blue=ORF Red=Cloning site Green=Tag(s)

MAAAQPKYPAGATARRLARGCWSALWDYETPKIVVRRRLGVL YRAVQLLILL YFVWYVFIVQKSYQE  
 SETGPRESSIITKVKGITTEHKVWDVEEYVKPEGGSVFSIITRVEATHSQTGTCPEsirVHNATCLS  
 DADCVAGELDMLGNLRTGRCVPYYQGPSKTCEVFGWCPVEDGASVSQFLGTMAPNFTILIKNSIHYPK  
 FHFSGKNIADRTDGYLKRCTFHEASDLYCPIFKLGFIVEKAGESFTELAHKGGVIGVIINWDCDLPLA  
 SECNPKYSFRRLDPKHVPASSGYNFRFAKYKINGTTTRTLKAYGIRIDVIVHGQVPAPAGGREGVQPD  
 SHHY  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001282165

**ORF Size:** 1047 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.

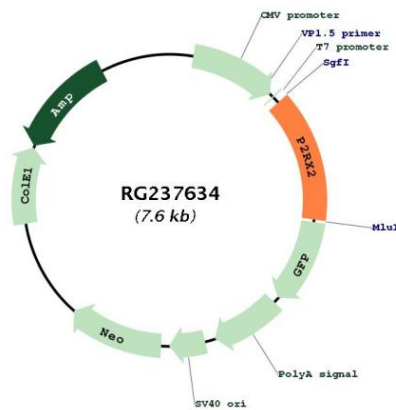
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**RefSeq:** [NM\\_001282165.2](#)

**RefSeq Size:** 1964 bp

**RefSeq ORF:** 1050 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  
**MW:** 39.4 kDa  
**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 RG237634