

## Product datasheet for **RC237784**

### **P2X2 (P2RX2) (NM\_001282164) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** P2X2 (P2RX2) (NM\_001282164) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** P2RX2  
**Synonyms:** DFNA41; P2X2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237784 representing NM\_001282164  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCCGCGCCAGCCCAAGTACCCCGCGGGGCGACCCCGCGCCTGGCCCGGGCTGCTGGTCCG  
CCCTCTGGGACTACGAGACGCCAAGGTGATCGTGGTGAAGAACCGCGCCTGGGGTCTGTACCGCGC  
CGTGCAGCTGCTCATCTCTACTTCGTGTGGTACGTATTCATCGTGCAGAAAAGCTACCAGGAGAGC  
GAGACGGGCCCGAGAGCTCCATCATCACCAAGGTCAAGGGGATCACACGTCCGAGCACAAAGTGTGGG  
ACGTGGAGGAGTACGTGAAGCCCCGAGAGCATAAGGGTCCACAACGCCACCTGCCTCTCCGACGCCGA  
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TGAAGCGCTGCACGTTCCACGAGGCTCCGACCTCTACTGCCCATCTTCAAGCTGGGCTTTATCGTGGA  
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CGCACGCTCATCAAGGCTACGGGATCCGACCTGACGTCATTGTGCATGGACAGGCCGGGAAGTTACGCC  
TGATTCACCATTTAATCTGGCCACAGCTCTGACTCCGTCGGGGTGGGCTCCTTCTGTGCGACTG  
GATCTTGCTAACATTCATGAACAAAAAAGGTCTACAGCCATAAGAAATTTGACAAGATGGTGGACT  
CCTGCCTCCGAGCTGCCAAGCTCCACACCCACAGACCCCAAGGTTTGGCTCAACTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237784 representing NM\_001282164  
Red=Cloning site Green=Tags(s)

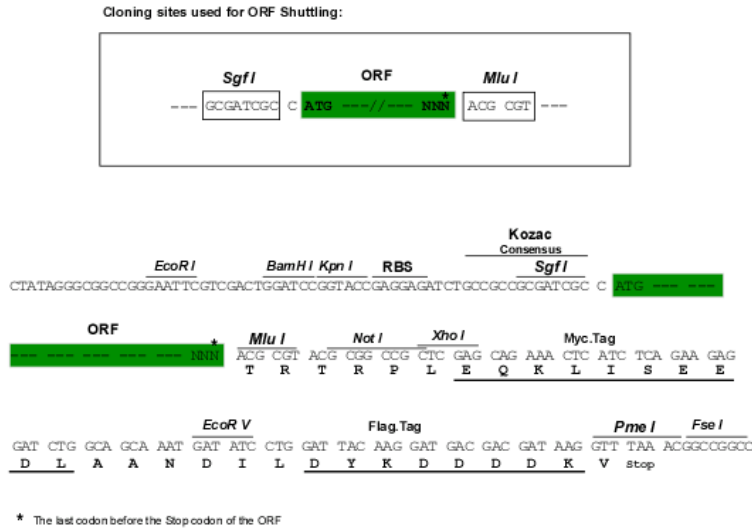
MAAAQPKYPAGATARRLARGCWSALWDYETPKVIIVVRNRRLGVL YRAVQLL ILL YFVWYVFIVQKSYQES  
 ETGPSSIITKVKGITTTSEHKVWDVEEYVKKPPESIRVHNATCLSDADCVAGELDMLGNGALQDLRGVRLV  
 PGGRWGLCQPIISGYDGPKFHHPHQEQHPLPQIPLLLQGHRRPHRRVPEALHVPRGLRPLLPHLQAGLYRG  
 EGWGLHRARTQGRGGVIGVIINWDCDLDPASECNPKYSFRRLDPKHVPASSGYNFRFAKYYKINGTTT  
 RTLIKAYGIRIDVIVHGQAGKFSLIPTIINLATALTSVGVGSFLCDWILLTFMKNKNVYSHKKFDKMDVDT  
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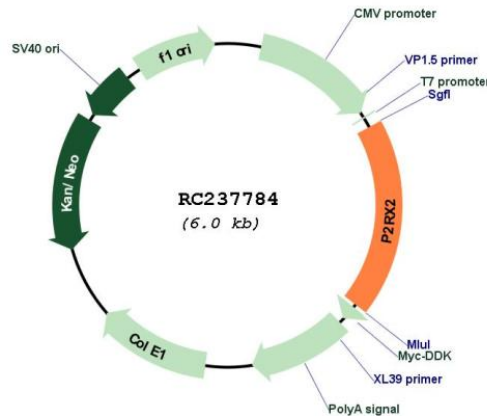
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001282164

<b>ORF Size:</b>	1110 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001282164.2</a>
<b>RefSeq Size:</b>	1564 bp
<b>RefSeq ORF:</b>	1113 bp
<b>Locus ID:</b>	22953
<b>UniProt ID:</b>	<a href="#">Q9UBL9</a>
<b>Cytogenetics:</b>	12q24.33
<b>Protein Families:</b>	Druggable Genome, Ion Channels: ATP Receptors, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, Neuroactive ligand-receptor interaction
<b>MW:</b>	41.8 kDa
<b>Gene Summary:</b>	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]