

## Product datasheet for **SC309531**

### **P2Y2 (P2RY2) (NM\_176071) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** P2Y2 (P2RY2) (NM\_176071) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** P2RY2  
**Synonyms:** HP2U; P2RU1; P2U; P2U1; P2UR; P2Y2; P2Y2R  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >SC309531 representing NM\_176071.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGCAGACCTGGGCCCTGGAATGACACCATCAATGGCACCTGGGATGGGGATGAGCTGGGCTAC
AGGTGCCGCTTCAACGAGGACTTCAAGTACGTGCTGCTGCCTGTGTCTACGGCGTGGTGTGCGTGCTT
GGGCTGTGTCTGAACGCCGTGGCGCTCTACATCTTCTGTGCCGCTCAAGACCTGGAATGCGTCCACC
ACATATATGTTCCACCTGGCTGTGTCTGATGCACTGTATGCCGCCTCCCTGCCGCTGGTCTATTAC
TACGCCCGCGGCCACTGACCCTTCCAGCAGGTGCTCTGCAAGCTGGTGGCTTCTCTTCTACACC
AACCTTTACTGCAGCATCTCTTCTCACCTGCATCAGCGTGCACCGGTGTCTGGGCGTCTTACGACCT
CTGCGCTCCCTGCGCTGGGGCCGGGCCCTACGCTCGCCGGGTGGCCGGGGCCGTGGGTGTTGGTG
CTGGCCTGCCAGGCCCGTGTCTACTTTGTACCACCAGCGCGCGGGGGCCGCTAACCTGCCAC
GACACCTCGGCACCCGAGCTCTTACGCCCTTCGTGGCCTACAGCTCAGTCATGTGGGCGTCTTTC
GCGGTGCCCTTGGCGTCATCTTGTCTGTACGTGCTCATGGCTCGGCGACTGCTAAAGCCAGCCTAC
GGGACCTCGGGCGGCTGCCTAGGGCCAAGCGCAAGTCCGTGCGCACCATCGCCGTGGTGTGGCTGTC
TTCGCCCTGTCTTCTGCCATTCCACGTACCCCGCACCTCTACTACTCTTCCGCTCGCTGGACCTC
AGCTGCCACACCCTCAACGCCATCAACATGGCCTACAAGTTACCCGGCCGCTGGCCAGTGCTAACAGT
TGCTTTGACCCCGTCTACTTCTGGCTGGCAGAGGCTCGTACGCTTGGCCGAGATGCCAAGCCA
CCACTGGCCCCAGCCCTGCCACCCCGGCTCGCCGAGGCTGGGCTGCGCAGATCCGACAGAAGTAC
ATGCAGAGGATAGAAGATGTGTTGGGCAGCAGTGAGGACTCTAGCGGACAGAGTCCACGCCGGTGGT
AGCGAGAACAATAAGGACATTGGCTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGC
```

**Restriction Sites:** SgfI-MluI



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Plasmid Map:	□
ACCN:	NM_176071
Insert Size:	1134 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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"><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>
RefSeq:	<a href="#">NM_176071.2</a>
RefSeq Size:	8667 bp
RefSeq ORF:	1134 bp
Locus ID:	5029
UniProt ID:	<a href="#">P41231</a>
Cytogenetics:	11q13.4
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	42.3 kDa

**Gene Summary:**

The product of this gene belongs to the family of P2 receptors, which is activated by extracellular nucleotides and subdivided into P2X ligand-gated ion channels and P2Y G-protein coupled receptors. This family has several receptor subtypes with different pharmacological selectivity, which overlaps in some cases, for various adenosine and uridine nucleotides. This receptor, found on many cell types, is activated by ATP and UTP and is reported to be overexpressed on some cancer cell types. It is involved in many cellular functions, such as proliferation, apoptosis and inflammation. Three transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Mar 2013]

Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Transcript variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.