

Product datasheet for **SC319903**

P2Y2 (P2RY2) (NM_002564) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2Y2 (P2RY2) (NM_002564) Human Untagged Clone
Tag:	Tag Free
Symbol:	P2Y2
Synonyms:	HP2U; P2RU1; P2U; P2U1; P2UR; P2Y2; P2Y2R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_002564.2
 GAACAGCGCAGGGAGGTGGGTAGCCGGGCTCCCAGGCACGTGGGTCTCTGCGGCTGCGGC
 GGGACCCGGGCACTGGCACCCGGGAGCGGCGGCGACGGCACCCCGAGAGGAGAAGCGCAG
 CGCAGTGGCGAGAGGAGCCCTTGTGGCAGCAGCACTACCTGCCAGAAAAATGCTGGAG
 GCTGGGCGTGGCCCCAGGCTGGGGACCTGTTTTCTGTTTCCCGCAGAGTTCCCTGCA
 GCCCGGTCCAGGTCCAGGCGTGTGCATTATGAGTGAGGAACCCGTGCAGGCGCTGAGCA
 TCCTGACCTGTAGAGCAGGGGCTGGTCAGGTTCCAGAGCTTGGAGGTTCCAGGTCAGAT
 CCAAGTCAGATGGCAATGAAAGCCCTGGTCAGGTGGCTGTGTAGGTCCTTAGGGGCGC
 TCCGGCCACAACCTGATGGCCCCACCCCTCCCTTCCCTGCAGGGCGATGGCAGCAGACC
 TGGGCCCTGGAATGACACCATCAATGGCACCTGGGATGGGGATGAGCTGGGCTACAGGT
 GCCGCTTCAACGAGGACTTCAAGTACGTGCTGCTGCCTGTGCTACGGCGTGGTGTGCG
 TGCTTGGGCTGTGTCTGAACGCCGTGGCGCTCTACATCTTCTGTGCCGCTCAAGACCT
 GGAATGCGTCCACCACATATATGTTCCACCTGGCTGTGTCTGATGCACTGTATGCGGCT
 CCCTGCCGCTGTGGTCTATTACTACGCCGCGGCGACCACTGGCCCTTACGACGGTGC
 TCTGCAAGCTGGTGGCTTCTCTTCTACACCAACCTTTACTGCAGCATCCTCTTCTCA
 CCTGCATCAGCGTGCACCGGTGTCTGGGCTTACGACCTCTGCGCTCCCTGCGCTGGG
 GCCGGGCCGCTACGCTCGCCGGGTGGCCGGGGCCGTGTGGGTGTTGGTGTGGCCTGCC
 AGGCCCCCGTGTCTACTTTGTCAACCACAGCGCGCGGGGGCCGCTAACCTGCCACG
 ACACCTCGGCACCCGAGCTCTTACGCCGCTTCGTGGCCTACAGCTCAGTCATGCTGGCC
 TGCTCTTTCGCGGTGCCCTTTGCCGTATCCTTGTCTGTTACGTGCTCATGGCTCGGCGAC
 TGCTAAAGCCAGCCTACGGGACCTCGGGCGGCTGCCTAGGGCCAAGCGCAAGTCCGTGC
 GCACCATCGCCGTGGTGTGGCTGCTTTCGCCCTCTGCTTCTGCCATTCCACGTACCC
 GCACCCCTACTACTCCTTCCGTTCCGCTGACCTGACCTGCCACACCCTCAACGCCATCA
 ACATGGCCTACAAGGTTACCCGGCCGCTGGCCAGTGCTAACAGTTGCCTTGACCCCGTGC
 TCTACTTCTGGCTGGGAGAGCCTCGTACGCTTTCGCCGAGATGCCAAGCCACCCACTG
 GCCCAGCCCTGCCACCCCGGCTCGCCGACGGCTGGGCTGCGCAGATCCGACAGAACTG
 ACATGCAGAGGATAGAAGATGTGTTGGGCAGCAGTGAGGACTCTAGGCGGACAGAGTCCA
 CGCCGGCTGGTAGCGAGAACTAAGGACATTCGGCTGTAGGAGCAGAACTTCCAGCT
 GTGCAGGTTTATATTGGGAAGCTGTAGAGGACCAGGACTGTGCAGACGCCACAGTCTCC
 CCAGATATGGACCATCAGTGACTCATGCTGGATGACCCCATGCTCCGTCATTTGACAGGG
 GCTCAGGATATCACTCTGTGGTCCAGAGTCAACTGTTCCATAACCCCTAGTCATCGTT
 TGTGTGTATAAGTTGGGGAAATTAAGTTTCAAGAAAGGCAAGAGCTCAAGGTCAATGACA
 CCCCTGGCCTGACTCCCATGCAAGTAGCTGGCTGTACTGCCAAGGTACCTAGGTTGGAGT
 CCAGCCTAATCAAGTCAAATGGAGAAACAGGCCAGAGAGGAAGGTGGCTTACCAAGATC
 ACATACCAGAGTCTGGAGCTGAGCTACCTGGGGTGGGGGCAAGTACAGGTTGGCCAGA
 AAACCCCTGGTAAGTAATGAGGGCTGAGTTTGCACAGTGGTCTGGAATGGACTGGGTGCCA
 CGGTGGACTTAGCTCTGAGGAGTACCCCAAGAGATGAACATCTGGGGACTAATA
 TCATAGACCCATCTGGAGGCTCCCATGGGCTAGGAGCCAGTGTGAGGCTGTAACCTATAC
 TAAAGTTGTGTTGCCTGCTGAGCTGTGCCCTATTGTGTGGTGGGGGATGAGGATATGG
 CAGGGAAGCTTTACAGCCACACAAGGTCCTTTCTCCAATCCGTTCCCTTTTGGCACC
 TGCTTCTCACTAGCTGTCTCAGGAGTAGTCTCATATCAGGGATCCTCTCTCCAGGCCCC
 AGGTCATCCCCACTGTAAGCCAGTTGGCTTCTGTGCCTGACTCTGTGCTGAGCACAGA
 GAAAAGTCAGGTGCAGTCCAGTCCCTTGGAGATTTCCAGTTTAGGTGATGGCCAGTCATG
 TGCTGGTAAATGTTAAGCCATTTAACTGGAGCTCCGATTTAACTGGGAACCCCTTCTTG
 TAGAACTGCCATTTCCATGGTGCAAAAACCTTATGGCCAAATTCAAACTATAAACATG
 ATGTCAACTTCTTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002564

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">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_002564.2 , NP_002555.2
RefSeq Size:	2547 bp
RefSeq ORF:	1134 bp
Locus ID:	5029
UniProt ID:	P41231
Cytogenetics:	11q13.4
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) 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.</p>