

Product datasheet for **RG210406**

P2Y1 (P2RY1) (NM_002563) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2Y1 (P2RY1) (NM_002563) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P2Y1
Synonyms:	P2Y1; SARCC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210406 representing NM_002563 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCGAGGTGCTGTGGCCGGCTGTCCCAACGGGACGGACGCTGCCTTCTGGCCGGTCCGGTTCGT
CCTGGGGAAACAGCACGGTCGCCTCCACTGCCCGCTCTCCTCGTCGTTCAAATGCGCCTTGACCAAGAC
GGGCTTCCAGTTTACTACCTGCCGGCTGTCTACATCTTGGTATTCATCATCGGCTTCTGGGCAACAGC
GTGGCCATCTGGATGTTCTTCCACATGAAGCCCTGGAGCGGCATCTCCGTGTACATGTTCAATTTGG
CTCTGGCCGACTTCTTGTACGTGCTGACTCTGCCAGCCCTGATCTTCTACTACTTCAATAAACAGACTG
GATCTTCGGGGATGCCATGTGTAAGTGCAGAGGTTTCATCTTTCATGTGAACCTCTATGGCAGCATCTTG
TTTCTGACATGCATCAGTGCCACCCGGTACAGCGGTGTGGTGTACCCCTCAAGTCCCTGGGCCGGCTCA
AAAAGAAGAATGCGATCTGTATCAGCGTGTGGTGTGGCTCATTGTGGTGGTGGCGATCTCCCCATCCT
CTTCTACTCAGGTACCGGGTCCGCAAAAACAAAACCATCACCTGTTACGACACCACCTCAGACGAGTAC
CTGCGAAGTTATTTATCTACAGCATGTGCAGACCGTGGCCATGTTCTGTGTCCCTTGGTGTGATTC
TGGGCTGTTACGGATTAATTGTGAGAGCTTTGATTTACAAAGATCTGGACAACTCCTCTGAGGAGAAA
ACGATGAACCTTGAGGCCCGGCTTGATTTTCAGACCCAGCAATGTGTGCTTTCAATGACAGGGTTTATG
CCACGTATCAGGTGACAAGAGGCTAGCAAGTCTCAACAGTTGTGTGGACCCATTCTCTATTTCTTGGC
GGGAGATACTTTCAAGAGGAGACTCTCCCGAGCCACAAGGAAAGCTTCTAGAAGAAGTGAGGCAAAATTTG
CAATCCAAGAGTGAAGACATGACCCTCAATATTTTACCTGAGTTCAAGCAGAATGGAGATACAAGCCTG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210406 representing NM_002563
 Red=Cloning site Green=Tags(s)

MTEVLWPAVPNGTDAFLAGPGSSWGNSTVASTAAVSSSFKCALTKTGFQFYLLPAVYILVFIIGFLGNS
 VAIWMFVFHMKPWSGISVYMFNLALADFLYVL TLPALIFYYFNKTDWIFGDAMCKLQRFIFHVNL YGSIL
 FLTCISAHRYSGVVYPLKSLGRLKKKNAICISVLVWLVVVAISPILFYSGTGVRKNKTITCYDSTSDEY
 LRSYFIYSMCTTVAMFCVPLVLILGCYGLIVRALIYKDLDNSPLRRKSIYLVIIIVLTVFAVSYIPFHV
 MKTMNLRARLDFQTPAMCAFNDRVYATYQVTRGLASLNSCVDPILYFLAGDTRRRRLSRATRKRSEANL
 QSKSEDMTLNILPEFKQNGDTSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002563

ORF Size: 1119 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).

Reconstitution Method:

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_002563.5](#)

RefSeq Size: 3122 bp

RefSeq ORF: 1122 bp

Locus ID: 5028

UniProt ID: [P47900](#)

Cytogenetics: 3q25.2

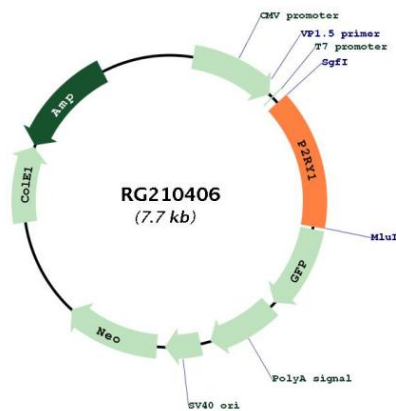
Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: The product of this gene belongs to the family of 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 functions as a receptor for extracellular ATP and ADP. In platelets binding to ADP leads to mobilization of intracellular calcium ions via activation of phospholipase C, a change in platelet shape, and probably to platelet aggregation. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210406