

Product datasheet for MR229547

P2ry1 (NM_001282016) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2ry1 (NM_001282016) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P2ry1
Synonyms:	P2Y1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229547 representing NM_001282016 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCGAGGTGCCTTGGTCGGTTGTCCCAACGGGACGGATGCTGCCTTCTGGCGGGCCTGGGCTCGC
TTTGGGAAACAGTACTGTCGCCTCAACTGCAGCAGTTTCTCTTCAATGTGCCCTGACCAAGAC
CGGTTTCCAGTTCTACTACCTGCCGGTGTCTACATTTTAGTGTCATCATAGGCTTCTAGGCAACAGC
GTGGCTATCTGGATGTTCTGTTTTCCACATGAAGCCTTGGAGCGGCATCTCCGTGTACATGTTCAATTTGG
CTCTGGCTGACTTTTTATACGTGCTCACCTACCAGCCCTCATCTTCTACTACTTCAACAAGACTGACTG
GATCTTCGGGATGCTATGTGCAAGCTGCAGAGATTCATCTCCACGTAATCTCTACGGTAGCATCTTG
TTCCCTCACCTGCATCAGCGCACACAGGTACAGTGGCGTGGTGTACCCTCTCAAGTCTCTGGGCAGGCTCA
AGAAGAAGAAATGCCATTTATGTCAGCGTGTGGTGTGGCTCATTGTGGTGGTGGCCATCTCCCCTATTCT
CTTCTACTCTGGCACTGGGACTCGGAAAAACAAACTGTCACCTGCTATGACACCACGTCCAATGATTAC
CTGCGAAGTTATTTATCTACAGTATGTGCAGACTGTGGCCATGTTCTGCATCCCTTGGTGTGATCT
TGGGCTGTTATGGATTAATTGTTAAAGCTTTGATTTACAATGACCTGGACAACCTCCGCTCCGGAGGAA
ATCCATTTACCTGGTGATAATTGTCCTGACGGTGTGGTGTGCTTATATCCCTTCCATGTGATGAAA
ACGATGAATTTGGGACACGGTTGGATTTCCAGACCCAGAAATGTGATTTCAACGACAGGGTTTATG
CCACTTATCAGGTAACAAGAGGCTTAGCAAGTCTCAACAGCTGTGTGGACCCATTCTTTATTTCTTGGC
TGGAGATACATTAGAAGGAGACTGTCCCGAGCCACCAGGAAAGCTTCCAGGAGGAGTGAGGCCAATTTA
CAATCCAAGAGTGAAGAAATGACTCTCAATATTTTATCTGAGTTCAAGCAGAATGGAGACACGAGTTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR229547 representing NM_001282016
Red=Cloning site Green=Tags(s)

MTEVPWSVVPNGTDA AFLAGL GSLWGNSTVASTAAVSSSFQCALTKTGFQFYLPVYILVFIIGFLGNS
 VAIWMFVFHMKPWSGISVYMFNLALADFLYVL TLPALIFYFKNKTDWIFGDAMCKLQRFIFHVNLYGSIL
 FLTCISAHRYSGVVYPLKSLGRLKKKNAIYVSVLVWLVVVAISPILFYSGTGRKNKTVTCYDTTSDNY
 LRSYFIYSMCTTVAMFCIPLVLI LGCYGLIVKAL IYNDLDNSPLRRKSIYLVIIIVLTVFAVSYIPFHVMK
 TMNLRARLDFQTPEMCDFNDRVYATYQVTRGLASLNSCVDPILYFLAGDTRRRRLSRATRKRASRRSEANL
 QSKSEEMTLNILSEFKQNGDTSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001282016

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_001282016.1](#), [NP_001268945.1](#)

RefSeq Size: 3624 bp

RefSeq ORF: 1122 bp

Locus ID: 18441

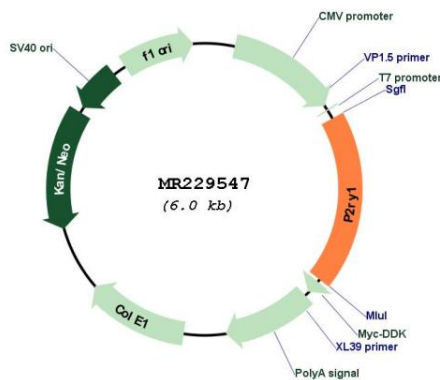
UniProt ID: [P49650](#)

Cytogenetics: 3 E1

MW: 42.2 kDa

Gene Summary: Receptor for extracellular adenine nucleotides such as ADP. In platelets, binding to ADP leads to mobilization of intracellular calcium ions via activation of phospholipase C, a change in platelet shape, and ultimately platelet aggregation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229547