

## Product datasheet for MR229557

### P2ry2 (NM\_001302347) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	P2ry2 (NM_001302347) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P2ry2
Synonyms:	P2U1; P2Y2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229557 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCAGCAGACCTGGAACCTGGAATAGCACCATCAATGGCACCTGGGAGGGGGACGAACTGGGATACA  
AGTGTCTGTTTCAACGAGGACTTCAAGTACGTGCTGTTGCCCGTGTCTATGGCGTGGTGTGCGTGTCTCGG  
GTTGTGCCTGAACGTGCTGGCTCTATATCTTCTATGCCGCTCAAACCTGGAACGCCTCCACCACC  
TACATGTTTACCTGGCAGTTTCGGACTCTCTACGCAGCGTCCCTGCCGCTGTTGGTTTATTACTACG  
CCCGGGTGACCACTGGCCATTTAGCACGGTCTCTGCAAGCTGGTGCCTTCTCTACACCAACCT  
CTACTGCAGCATCCTTCTCCTCAGTGCATCAGCGTGCACCGGTGCCGAGTCCCTGCCCTCTGCAC  
TCCTGCGTTGGGGCCGGGCCGTTATGCCCGCCGGTGGCTGCGGTTGTGTGGTGTGCTGGTGTGGCT  
GCCAGGACCCCGTCTACTTCGTACCAACAGCGTGCAGGGAAACCCGGATCACTTGCCATGACACCTC  
GGCCCCGAGAGCTCTTAGCCATTTGTGGCTTACAGCTCCGTCATGCTGGGTCTGCTTTTGTGTGCC  
TTTTCCGTAATCCTGGTCTGTTACGTGCTTATGGCCAGGCGGCTGCTCAAACCGGCTTATGGGACCACAG  
GAGGTCTGCCTCGGGCAAGCGCAAGTCTGTGCGCACCATTGCCTTGGTACTGGCCGTCTCGCCCTCTG  
CTTCTGCCTTTCCACCTCACGCGCACCTCTACTACTCCTTCCGATCACTTGACCTCAGCTGCCACACC  
CTCAACGCCATCAACATGGCATATAAGATCACCCGGCCGCTGGCCAGCGCAACAGTTGTCTTGACCCGG  
TACTCTACTTCTGGCAGGGCAGAGACTTGTCCGCTTTGCCGAGATGCCAAGCCACCCAGGAGCCTAC  
CCCCAGCCACAGGCTCGTCGAAAGCTGGGCTGCACAGGCCAACAAGAACTGTGAGGAAAGATTTGTCA  
GTCAGCAGTGACGACTCAAGACGGACAGAGTCCACACCAGCTGGAAGTGAGACTAAGGACATTCCGGCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229557 protein sequence  
Red=Cloning site Green=Tags(s)

MAADLEPWNSTINGTWEGDELGYKCRFNEDFKYVLLPVSYGVVVCLGLCLNVVALYIFLCRLKTNASTT  
 YMFHLAVSDSLYAASLPLLYYYYARGDHPFSTVLCKLVRFLFYTNLYCSILFLTCISVHRCLGVLRLPH  
 SLRWGRARYARRVAAVVWVVLACQAPVLYFVTTSVRGTRITCHDTSARELFSHFVAYSSVMLGLLFAVP  
 FSVILVCYVLMARRLLKPAYGTTGGLPRAKRKSVRTIALVLAVFALCFLPFHLTRTLYYFSRSLDLSCHT  
 LNAINMAYKITRPLASANSCLDPVLYFLAGQLVRFARDAKPTEPTSPQARRKLGHRPNRTVRKDL  
 VSSDDSRRESTPAGSETKDIRL

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\_001302347

**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\\_001302347.1](#), [NP\\_001289276.1](#)

**RefSeq Size:** 2820 bp

**RefSeq ORF:** 1122 bp

**Locus ID:** 18442

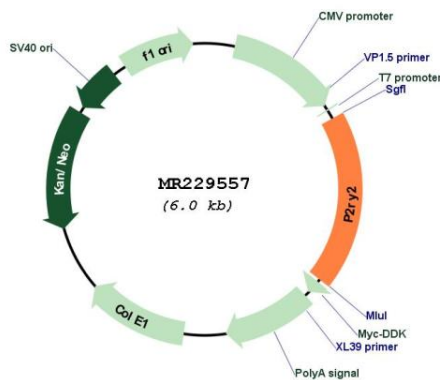
**UniProt ID:** [P35383](#)

**Cytogenetics:** 7 E2

**MW:** 42.2 kDa

**Gene Summary:** Receptor for ATP and UTP coupled to G-proteins that activate a phosphatidylinositol-calcium second messenger system. The affinity range is UTP = ATP > ATP-gamma-S >> 2-methylthio-ATP = ADP.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR229557