

Product datasheet for MR205778

P2ry2 (NM_008773) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2ry2 (NM_008773) 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:	>MR205778 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCAGACCTGGAACCTGGAATAGCACCATCAATGGCACCTGGGAGGGGGACGAACTGGGATACA
AGTGTGCGTTCAACGAGGACTTCAAGTACGTGCTGTTGCCCGTGTCTATGGCGTGGTGTGCGTGTCTCGG
GTTGTGCTGAACGTGCTGGCTCTATATCTTCTATGCCGCTCAAACCTGGAACGCTCCACCACC
TACATGTTTACCTGGCAGTTTCGGACTCTCTACGCAGCGTCCCTGCCGCTGTTGGTTTATTACTACG
CCCGGGTGACTACTGGCCATTTAGCACGGTGTCTGCAAGCTGGTGCCTTCTCTACACCAACCT
CTACTGCAGCATCCTTCTCCTCAGTGCATCAGCGTGCACCGGTGCCTGGGAGTCCCTGCCCTCTGCAC
TCCTGCGTTGGGGCCGGGCCGTTATGCCCGCCGGTGGCTGCGGTTGTGTGGTGTGCTGGTGTGGCT
GCCAGGACCCCGTCTACTTCGTACACCAGCGTGCAGGGAACCCGGATCACTTGCCATGACACCTC
GGCCCCGAGAGCTCTTAGCCATTTGTGGCTTACAGCTCCGTCATGCTGGGTCTGCTTTTGTGTGCC
TTTTCCGTAATCCTGGTCTGTTACGTGCTTATGGCCAGGCGGCTGCTCAAACCGGCTTATGGACACAG
GAGGTCTGCCTCGGGCAAGCGCAAGTCTGTGCGCACCATTGCCTTGGTACTGGCCGTCTCGCCCTCTG
CTTTCTGCCTTTCACGTACGCGCACCTCTACTACTCCTTCCGATCACTTGACCTCAGCTGCCACACC
CTCAACGCCATCAACATGGCATATAAGATCACCCGGCCGCTGGCCAGCGCAACAGTTGTCTTGACCCGG
TACTCTACTTCTGGCAGGGCAGAGACTTGTCCGCTTTGCCGAGATGCCAAGCCACCCAGGAGCCTAC
CCCCAGCCACAGGCTCGTCGAAAGCTGGGCTGCACAGGCTAACAGAAGTGTGAGGAAAGATTTGTCA
GTCAGCAGTGACGACTCAAGACGGACAGAGTCCACACCAGCTGGAAGTGAGACTAAGGACATTCCGGCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205778 protein sequence
Red=Cloning site Green=Tags(s)

MAADLEPWNSTINGTWEGDELGYKCRFNEDFKYVLLPVSYGVVVCLGLCLNVVALYIFLCRLKTNASTT
 YMFHLAVSDSLYAASLPLLVYYYARGDHPFSTVLCKLVRFLFYTNLYCSILFLTCISVHRCLGVLRLPH
 SLRWGRARYARRVAAVVWVVLACQAPVLYFVTTSVRGTRITCHDTSARELFSHFVAYSSVMLGLLFAVP
 FSVILVCYVLMARRLLKPAYGTTGGLPRAKRKSVRTIALVLAVFALCFLPFHVTRTLYYFSRSLDLSCHT
 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_008773

ORF Size: 1122 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_008773.1](#)

RefSeq Size: 3011 bp

RefSeq ORF: 1122 bp

Locus ID: 18442

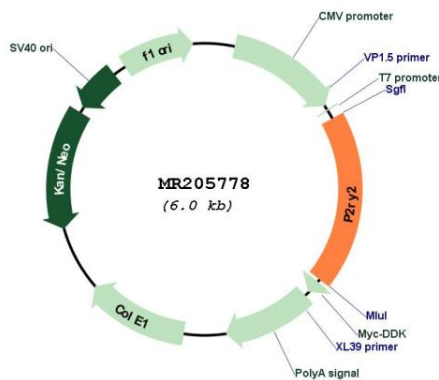
UniProt ID: [P35383](#)

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 MR205778