

Product datasheet for RR214810

P2ry2 (NM_017255) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2ry2 (NM_017255) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P2ry2
Synonyms:	P2Y2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR214810 representing NM_017255 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCAGGCCTGGACTCCTGGAATAGTACCATCAATGGCACCTGGGAGGGGGACGAACCTGGTTACA
AATGTCGCTTCAACGAGGACTTCAAGTATGTGCTGCTGCCGTGTCTATGGCGTGGTGTGCGTGTCTCGG
GCTGTGCCTGAACGTCGTGGCCCTCTACATCTTCTGTGCCGCTCAAGACCTGGAACGCCTCCACCACC
TACATGTTTACCTGGCAGTTTCTGACTCTCTACGCAGCCTCCCTGCCGCTGTGTTTATTACTACG
CCCAGGGTGACCACTGGCCATTTAGCACAGTGTCTGCAAGCTGGTGCCTTCTTTTCTACACTAACCT
CTACTGCAGCATCCTTCTCCTCAGCTGATCAGCGTGCACCGGTGCCTGGGGTCCCTGCGCCTCTGCAC
TCCTGAGCTGGGGCATGCCCGCTATGCCCGCAGTGGCTGCGGTTGTGTGGTGTAGTGTGGCT
GCCAGGCACCCGTGCTCTACTTTGTACACCAGCGTGAGAGGGACCCGAATCACCTGCCACGACACCTC
GGCCCCGAGAGCTCTTAGCCATTTGTGGCTTACAGCTGTGCATGCTGGGTCTGCTTTTGTGTGCC
TTTTCCATCATCTGGTCTGTTACGTGCTCATGGCCCCAGCGTGTCAAACCGGCTTATGGACACAG
GTCTGCCTCGGGCCAAGCGCAAGTCTGTGCGCACCATCGCCTTAGTACTGGCCGCTTCGCCCTCTGCT
CCTGCCCTTCCAGTCAACCGCACCCCTCTATTACTCTTCCGATCACTTGACCTCAGTTGCCACACCCCTC
AACGCCATCAACATGGCGTATAAGATCACCCGGCCACTGGCCAGCGCCAACAGTTGCCTTGACCCGTGC
TCTACTTCTGGCAGGGCAGAGACTGGTCCGCTTTGCCGAGATGCCAAGCCCGCCACAGAGCCTACACC
CAGCCCCAGGCTCGTCGCAAGTGGGGTGCACAGGCCAACAAGAACTGACACTGTGAGAAAGATTTG
TCGATCAGCAGTGATGACTCAAGAAGGACAGAGTCCACACCAGCTGGAAGTGAGACTAAGGACATTCGTC
TA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214810 representing NM_017255
Red=Cloning site Green=Tags(s)

MAAGLDSWNSTINGTWEGDELGYKCRFNEDFKYVLLPVSYGVVVCLGLCLNVVALYIFLCRLKTNASTT
 YMFHLAVSDSLYAASLPLLVYYAQQGDHWPFFSTVLCKLVRFLFYTNLYCSILFLTCISVHRCLGVLRLPH
 SLSWGHARYARRVAAVVWVVLACQAPVLYFVTTSVRGRITCHDTSARELFSHFVAYSSVMLGLLFAVP
 FSIIILVCYVLMARRLLKPAYGTTGLPRAKRKSVRTIALVAVFALCFLPFHVTRTLYYSFRLDLSCHTL
 NAINMAYKITRPLASANSCLDPVLYFLAGQRLVRFARDAKPATEPTPSPQARRKLGHRPNRTDTVRKDL
 SISSDSSRRETESTPAGSETKDIRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2743_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



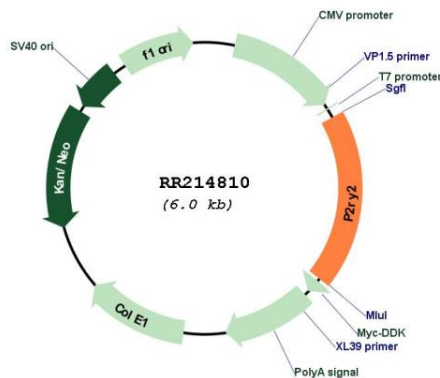
ACCN: NM_017255

ORF Size: 1122 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<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_017255.1 , NP_058951.1
RefSeq Size:	2011 bp
RefSeq ORF:	1125 bp
Locus ID:	29597
UniProt ID:	P41232
Cytogenetics:	1q32
MW:	42.1 kDa
Gene Summary:	receptor for extracellular ATP; induces smooth muscle contraction [RGD, Feb 2006]

Product images:


Circular map for RR214810