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Product datasheet for RC200617

P2Y6 (P2RY6) (NM_176797) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2Y6 (P2RY6) (NM_176797) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P2Y6
Synonyms:	P2Y6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC200617 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAATGGGACAATGGCACAGGCCAGGCTCTGGGCTTGCCACCCACCACCTGTGTCTACCGCGAGAACT
TCAAGCAACTGCTGCTGCCACCTGTGTATTCGGCGGTGCTGGCGGCTGGCCTGCCGCTGAACATCTGTGT
CATTACCCAGATCTGCACGTCCCGCCGGGCCCTGACCCGCACGGCCGTGTACACCCTAAACCTTGCTCTG
GCTGACCTGCTATATGCCTGCTCCCTGCCCCTGCTCATCTACAACTATGCCCAAGGTGATCACTGGCCCT
TTGGCGACTTCGCCTGCCGCCTGGTCCGCTTCCTCTTCTATGCCAACCTGCACGGCAGCATCCTCTTCCT
CACCTGCATCAGCTTCCAGCGCTACCTGGGCATCTGCCACCCGCTGGCCCCCTGGCACAAACGTGGGGGC
CGCCGGGCTGCCTGGCTAGTGTGTGTAGCCGTGTGGCTGGCCGTGACAACCCAGTGCCTGCCCACAGCCA
TCTTCGCTGCCACAGGCATCCAGCGTAACCGCACTGTCTGCTATGACCTCAGCCCGCCTGCCCTGGCCAC
CCACTATATGCCCTATGGCATGGCTCTCACTGTCATCGGCTTCCTGCTGCCCTTTGCTGCCCTGCTGGCC
TGCTACTGTCTCCTGGCCTGCCGCCTGTGCCGCCAGGATGGCCCGGCAGAGCCTGTGGCCCAGGAGCGGC
GTGGCAAGGCGGCCCGCATGGCCGTGGTGGTGGCTGCTGCCTTTGCCATCAGCTTCCTGCCTTTTCACAT
CACCAAGACAGCCTACCTGGCAGTGCGCTCGACGCCGGGCGTCCCCTGCACTGTATTGGAGGCCTTTGCA
GCGGCCTACAAAGGCACGCGGCCGTTTGCCAGTGCCAACAGCGTGCTGGACCCCATCCTCTTCTACTTCA
CCCAGAAGAAGTTCCGCCGGCGACCACATGAGCTCCTACAGAAACTCACAGCCAAATGGCAGAGGCAGGG
TCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC200617 protein sequence
Red=Cloning site Green=Tags(s)

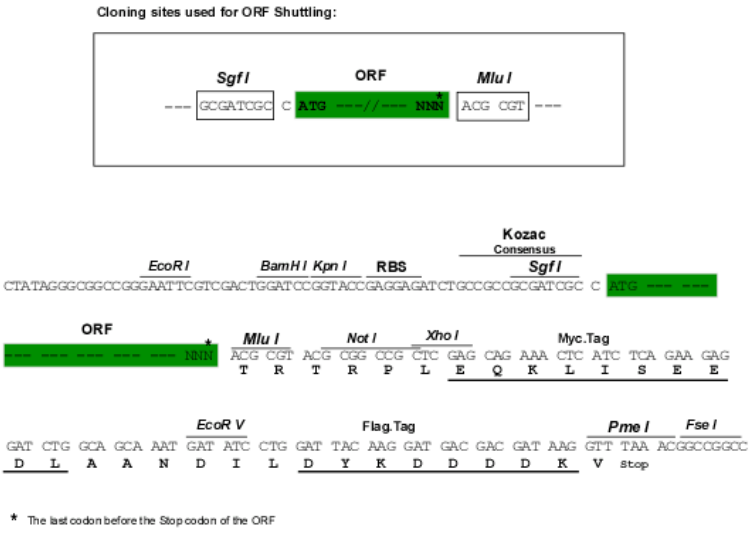
MEWDNGTGQALGLPPTTCVYRENFKQLLLPPVYSAVLAAGLPLNICVITQICTSRRALTRTAVYTLNLAL
ADLLYACSLPLLIYNYAQGDHWPFGDFACRLVRFLFYANLHGSILFLTCISFQRYLGICHPLAPWHKRGG
RRAAWLVCVAVWLAVTTQCLPTAIFAATGIQRNRTVCYDLSPPALATHYMPYGMALTVIGFLLPFAALLA
CYCLLACRLCRQDGPAEPVAQERRGKAARMAVVVAAAFAISFLPFHITKTAYLAVRSTPGVPCTVLEAFA
AAYKGTRPFASANSVLDPILFYFTQKKFRRRPHELLQKLTAKWQRQGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6057_h09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_176797

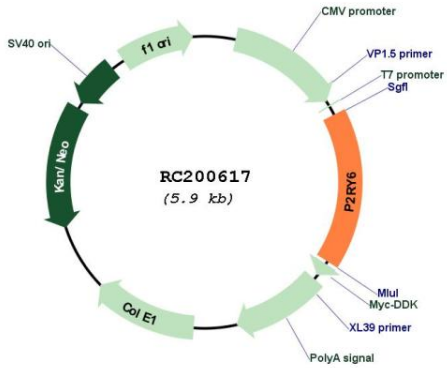
ORF Size: 984 bp

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.

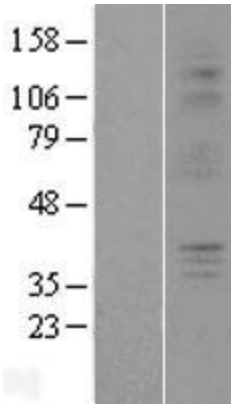
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_176797.2
RefSeq Size:	2372 bp
RefSeq ORF:	987 bp
Locus ID:	5031
UniProt ID:	Q15077
Cytogenetics:	11q13.4
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	36.4 kDa
Gene Summary:	The product of this gene belongs to the family of P2 receptors, which is activated by extracellular nucleotides and subdivided into P2X ligand-gated ion channels and P2Y 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, which is a G-protein coupled receptor, is responsive to UDP, partially responsive to UTP and ADP, and not responsive to ATP. It is proposed that this receptor mediates inflammatory responses. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Mar 2013]

Product images:



Circular map for RC200617



Western blot validation of overexpression lysate (Cat# [LY406124]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC217057] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).