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Product datasheet for RG213891

P2Y4 (P2RY4) (NM_002565) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	P2Y4
Synonyms:	NRU; P2P; P2Y4; UNR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG213891 representing NM_002565
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAGTACAGAGTCCTCCCTGTTGAGATCCCTAGGCCTCAGCCCAGGTCCTGGCAGCAGTGAGGTGG
AGCTGGACTGTTGGTTTGATGAGGATTTCAAGTTCATCCTGCTGCCTGTGAGCTATGCAGTTGTCTTTGT
GCTGGGCTTGGGCCTTAACGCCCCAACCCTATGGCTCTTCATCTTCCGCCTCCGACCCTGGGATGCAACG
GCCACCTACATGTTCCACCTGGCATTGTCAGACACCTTGTATGTGCTGTCGCTGCCCACCCTCATCTACT
ATTATGCAGCCCACAACCACTGGCCCTTTGGCACTGAGATCTGCAAGTTCGTCCGCTTTCTTTTCTATTG
GAACCTCTACTGCAGTGTCCTTTTCCTCACCTGCATCAGCGTGCACCGCTACCTGGGCATCTGCCACCCA
CTTCGGGCACTACGCTGGGGCCGCCCTCGCCTCGCAGGCCTTCTCTGCCTGGCAGTTTGGTTGGTCGTAG
CCGGCTGCCTCGTGCCCAACCTGTTCTTTGTCACAACCAGCAACAAAGGGACCACCGTCCTGTGCCATGA
CACCACTCGGCCTGAAGAGTTTGACCACTATGTGCACTTCAGCTCGGCGGTCATGGGGCTGCTCTTTGGC
GTGCCCTGCCTGGTCACTCTTGTTTGCTATGGACTCATGGCTCGTCGCCTGTATCAGCCCTTGCCAGGCT
CTGCACAGTCGTCTTCTCGCCTCCGCTCTCTCCGCACCATAGCTGTGGTGCTGACTGTCTTTGCTGTCTG
CTTCGTGCCTTTCCACATCACCCGCACCATTTACTACCTGGCCAGGCTGTTGGAAGCTGACTGCCGAGTA
CTGAACATTGTCAACGTGGTCTATAAAGTGACTCGGCCCCTGGCCAGTGCCAACAGCTGCCTGGATCCTG
TGCTCTACTTGCTCACTGGGGACAAATATCGACGTCAGCTCCGTCAGCTCTGTGGTGGTGGCAAGCCCCA
GCCCCGCACGGCTGCCTCTTCCCTGGCACTAGTGTCCCTGCCTGAGGATAGCAGCTGCAGGTGGGCGGCC
ACCCCCCAGGACAGTAGCTGCTCTACTCCTAGGGCAGATAGATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

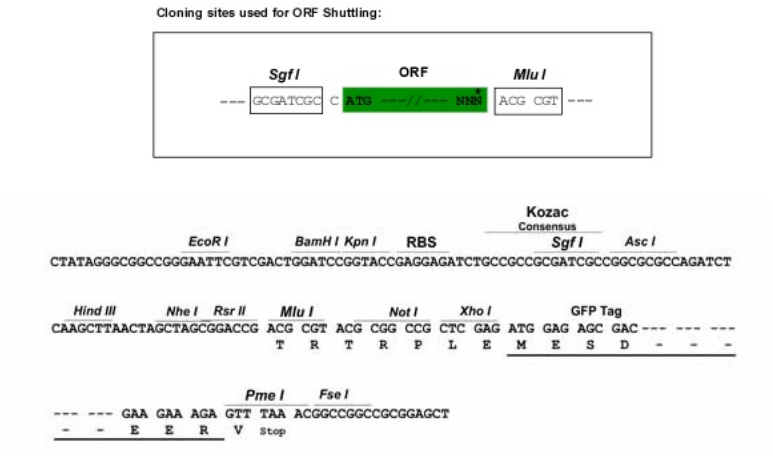
>RG213891 representing NM_002565
Red=Cloning site Green=Tags(s)

MASTESSLLRSLGLSPGPGSSEVELDCWFDEDFKFILLPVSYAVVFVLGLGLNAPTLWLFIFRLRPWDAT
ATYMFHLALSDTLYVLSLPTLIYYYAAHNHWPFGTEICKFVRFLFYWNLYCSVLFLTCISVHRYLGICHP
LRALRWGRPRLAGLLCLAVWLVVAGCLVPNLFFVTTSNKGTTVLCHDTTRPEEFDHYVHFSSAVMGLLFG
VPCLVTLVCYGLMARRLYQPLPGSAQSSSRLRSLRTIAVVLTVFAVCFVPFHITRTIYYLARLLEADCRV
LNIVNVVYKVTRPLASANSCLDPVLYLLTGDKYRRQLRQLCGGGKPQPRTAASSLALVSLPEDSSCRWAA
TPQDSSCSTPRADRL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002565

ORF Size: 1095 bp

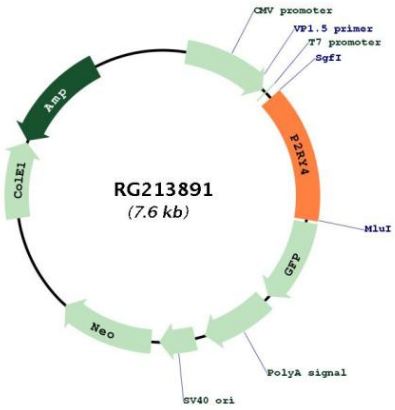
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_002565.3, NP_002556.1
RefSeq Size:	1639 bp
RefSeq ORF:	1098 bp
Locus ID:	5030
UniProt ID:	P51582
Cytogenetics:	Xq13.1
Protein Families:	Druggable Genome
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	The product of this gene belongs to the family of 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 is responsive to uridine nucleotides, partially responsive to ATP, and not responsive to ADP. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG213891