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Product datasheet for RG213478

P2Y12 (P2RY12) (NM_176876) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2Y12 (P2RY12) (NM_176876) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P2RY12
Synonyms:	ADPG-R; BDPLT8; HORK3; P2T(AC); P2Y(12)R; P2Y(AC); P2Y(ADP); P2Y(cyc); P2Y12; SP1999
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG213478 representing NM_176876
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAAGCCGTCGACAACCTCACCTCTGCGCCTGGTAACACCAGTCTGTGCACCAGAGACTACAAAATCA
CCCAGGTCCTCTTCCCACTGCTCTACACTGTCCTGTTTTTTGTTGGACTTATCACAAATGGCCTGGCGAT
GAGGATTTTCTTTCAAATCCGGAGTAAATCAAACTTTATTATTTTTCTTAAGAACACAGTCATTTCTGAT
CTTCTCATGATTCTGACTTTTCCATTCAAAATTCTTAGTGATGCCAAACTGGGAACAGGACCACTGAGAA
CTTTTGTGTGTCAAGTTACCTCCGTCATATTTTATTTCACAATGTATATCAGTATTTCATTCCTGGGACT
GATAACTATCGATCGCTACCAGAAGACCACCAGGCCATTTAAAACATCCAACCCCAAAAATCTCTTGGGG
GCTAAGATTCTCTCTGTTGTCATCTGGGCATTCATGTTCTTACTCTCTTTGCCTAACATGATTCTGACCA
ACAGGCAGCCGAGAGACAAGAATGTGAAGAAATGCTCTTTCCTTAAATCAGAGTTCGGTCTAGTCTGGCA
TGAAATAGTAAATTACATCTGTCAAGTCATTTTCTGGATTAATTTCTTAATTGTTATTGTATGTTATACA
CTCATTACAAAAGAACTGTACCGGTCATACGTAAGAACGAGGGGTGTAGGTAAAGTCCCCAGGAAAAAGG
TGAACGTCAAAGTTTTCATTATCATTGCTGTATTCTTTATTTGTTTTGTTCCTTTCCATTTTGCCCGAAT
TCCTTACACCCTGAGCCAAACCCGGGATGTCTTTGACTGCACTGCTGAAAATACTCTGTTCTATGTGAAA
GAGAGCACTCTGTGGTTAACTTCCTTAAATGCATGCCTGGATCCGTTCATCTATTTTTTCCTTTGCAAGT
CCTTCAGAAATTCCTTGATAAGTATGCTGAAGTGCCCCAATTCTGCAACATCTCTGTCCCAGGACAATAG
GAAAAAAGAACAGGATGGTGGTGACCCAAATGAAGAGACTCCAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

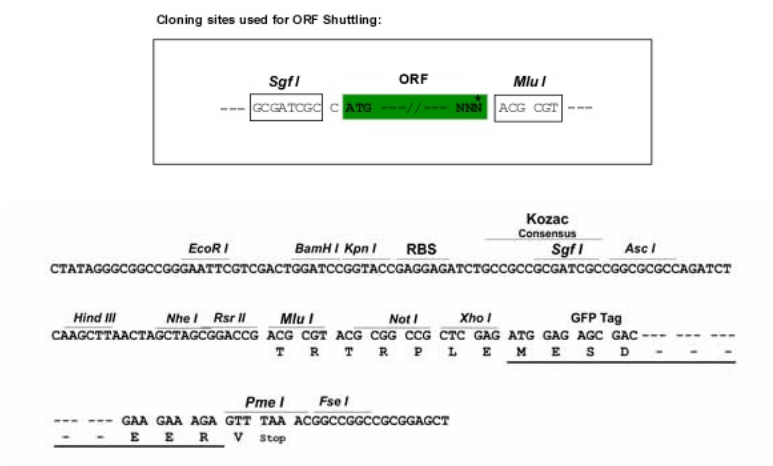
>RG213478 representing NM_176876
Red=Cloning site Green=Tags(s)

MQAVDNLTSAPGNTSLCTRDYKITQVLFPLLYTVLFFVGLITNGLAMRIFFQIRSKSNFIIFLKNTVISD
LLMILTFPFKILSDAKLGTGPLRTFVCQVTSVIFYFTMYISISFLGLITIDRYQKTTRPFKTSNPKNLLG
AKILSVVIWAFMFLLSLPNMILTNRQPRDKNVKKCSFLKSEFGLVWHEIVNYICQVIFWINFLIVIVCYT
LITKELYRSYVRTRGVGKVPRKKVNVKVFIIIAVFFICFVPFHFARIPYTLSQTRDVFDCTAENTLFYVK
ESTLWLTSLNACLDPFIYFFLCKSFRNSLISMLKCPNSATSLSQDNRKKEQDGGDPNEETPM

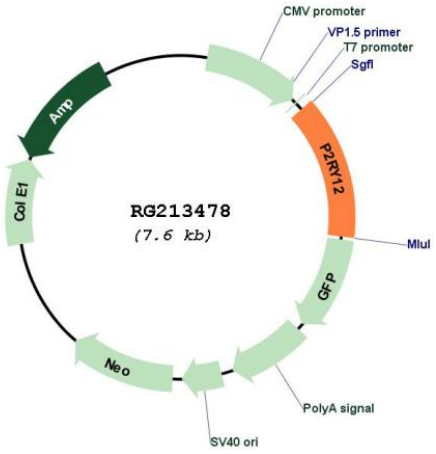
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_176876

ORF Size: 1026 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_176876.3
RefSeq Size:	1474 bp
RefSeq ORF:	1029 bp
Locus ID:	64805
UniProt ID:	Q9H244
Cytogenetics:	3q25.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
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 involved in platelet aggregation, and is a potential target for the treatment of thromboembolisms and other clotting disorders. Mutations in this gene are implicated in bleeding disorder, platelet type 8 (BDPLT8). Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013]