

## Product datasheet for **RG205005**

### **P2Y12 (P2RY12) (NM\_022788) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	P2Y12 (P2RY12) (NM_022788) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P2Y12
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:	>RG205005 representing NM_022788 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCAAGCCGTCGACAATCTCACCTCTGCGCCTGGGAACACCAGTCTGTGCACCAGAGACTACAAAATCA  
CCCAGGTCCTCTCCCACTGCTCTACACTGTCCTGTTTTTTGTTGGACTTATCACAAATGGCCTGGCGAT  
GAGGATTTTCTTCAAATCCGGAGTAAATCAAACCTTTATTATTTTCTTAAGAACACAGTCAATTTCTGAT  
CTTCTCATGATTCTGACTTTTCCATTCAAATTTCTTAGTGATGCCAAACTGGGAACAGGACCACTGAGAA  
CTTTTGTGTGCAAGTTACCTCCGTCATATTTTATTTTACAATGTATATCAGTATTTTCATTCCTGGGACT  
GATAACTATCGATCGCTACCAGAAGACCACCAGGCCATTTAAAACATCCAACCCAAAAATCTCTTGGGG  
GCTAAGATTCTCTCTGTTGTCATCTGGGCATTCATGTTCTTACTCTCTTTGCCTAACATGATTCTGACCA  
ACAGGCAGCCGAGAGACAAGAATGTGAAGAAATGCTCTTTCTTAAATCAGAGTTCGGTCTAGTCTGGCA  
TGAAATAGTAAATTACATCTGTCAAGTCATTTTCTGGATTAATTTCTTAATTGTTATTGTATGTTATACA  
CTCATTACAAAAGAACTGTACCGGTCATACGTAAGAACGAGGGGTGTAGGTAAAGTCCCCAGGAAAAAGG  
TGAACGTCAAAGTTTTTCATTATCATTGCTGTATTCTTTATTTGTTTTGTTCTTTCCATTTTGCCCGAAT  
TCCTTACACCCGAGCCAAACCCGGGATGTCTTTGACTGCACTGCTGAAAATACTCTGTTCTATGTGAAA  
GAGAGCACTCTGTGGTTAACTTCTTAAATGCATGCCTGGATCCGTTTCATCTATTTTCTTTGCAAGT  
CCTTCAGAAATTCCTTGATAAGTATGCTGAAGTGCCCAATTCTGCAACATCTCTGTCCCAGGACAATAG  
GAAAAAAGAACAGGATGGTGGTGACCCAAATGAAGAGACTCCAATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205005 representing NM\_022788  
 Red=Cloning site Green=Tags(s)

MQAVDNLTSAPGNTSLCTRDKITQVLFPLLYTVLFFVGLITNGLAMRIFFQIRSKSNFIIFLKNTVISD  
 LLMILTFPFKILSDAKLGTGPLRTFVCQVTSVIFYFTMYISISFLGLITIDRYQKTRPFKTSNPKNLLG  
 AKILSVVIWAFMFLLSLPNMILNTRQPRDKNVKCSFLKSEFGLVWHEIVNYICQVIFWINFLIVICYT  
 LITKELYRSYVRTRGVGKVPKRVNVKVFIIIIVFFICFVPFHAFARIPYTLSTQTRDVFDCIAENTLFFYVK  
 ESTLWLTSLNACLDPFIYFFLCKSFRNSLISMLKCPNSATLSLQDNRRKKEQDGGDPNEETPM

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_022788

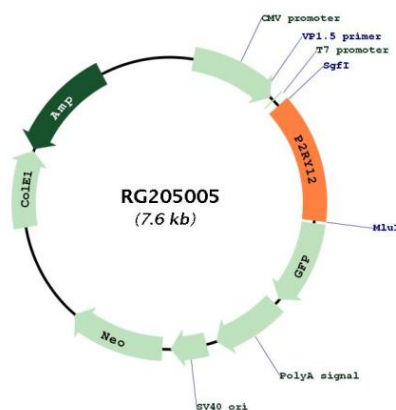
**ORF Size:** 1026 bp

**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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_022788.2</u>
<b>RefSeq Size:</b>	1502 bp
<b>RefSeq ORF:</b>	1029 bp
<b>Locus ID:</b>	64805
<b>UniProt ID:</b>	<u>Q9H244</u>
<b>Cytogenetics:</b>	3q25.1
<b>Domains:</b>	7tm_1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Gene Summary:</b>	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]

**Product images:**


Circular map for RG205005