

## Product datasheet for **RG206012**

### GPR105 (P2RY14) (NM\_014879) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR105 (P2RY14) (NM_014879) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR105
Synonyms:	BPR105; GPR105; P2Y14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206012 representing NM_014879 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCAATTC AACCTCCACACAGCCTCCAGATGAATCCTGCTCTCAGAACCCTCTGATCACTCAGCAGATCATTCTGTGCTGTACTGTATGGTCTTCATTGCAGGAATCCTACTCAATGGAGTGTGAGGATGGATATTCTTTACGTGCCAGCTCTGAGAGTTTCATCATCTATCTCAAGAACATTGTTATTGCTGACTTTGTGATGAGCCTGACTTTTCCTTTCAAGATCCTTGGTGACTCAGGCCTTGGTCCCTGGCAGCTGAACGTGTTTGTGTGCAGGGTCTCTGCCGTGCTCTTCTACGTCAACATGTACGTGAGCATTGTGTTCTTTGGGCTCATCAGCTTTGACAGATATTATAAAATGTAAAGCCTCTTTGGACTTCTTTCATCCAGTCAGTGAGTTACAGCAAACCTCTGTCACTGATAGTATGGATGCTCATGCTCCTCTTGCTGTTCCAAATATTATTCTACCAACCAGAGTGTAGGGGAGGTTACACAAATAAAATGTATAGAAGTAAAAGTGAAGTGGGACGGAAGTGGCACAAAGCATCAAACACTACCTTCGTGGCCATCTTCTGGATTGTGTTTCTTTTGTAAATCGTTTTCTATACTGCTATCACAAAGAAATCTTTAAGTCCACCTTAAGTCAAGTCGGAATCCACTTCGGTCAAAAAGAAATCTAGCCGCAACATATTCAGCATCGTGTGTTTGTGTTTGTCTGTTTGTACCTTACCATATTGCCAGAATCCCTACACAAAGAGTCAGACCGAAGCTCATTACAGCTGCCAGTCAAAAAGAAATCTTGGGTATATGAAAGAATCACTCTGCTACTATCTGCTGCAAATGTATGCTTGGACCCTATTATTTATTTCTTCTATGCCAGCCGTTTAGGGAAATCTTATGTAAGAAATTCACATTCATTAAGCTCAAGTACGATGACCTAGACATTTCCAGAATCAAAAGAGGAAATACAACACTTGAAAGCACAGATACTTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206012 representing NM\_014879  
 Red=Cloning site Green=Tags(s)

MINSTSTQPPDESCSQNLLITQQIIPVLYCMVFIAGILLNGVSGWIFFYVPSSESFIIYLKNIVIADFVM  
 SLTFPFKILGDSGLGPWQLNVFVCRVSAVLFYVNMVSVIVFFGLISFDRIYKIVKPLWTSFIQSVSYSKL  
 LSVIVWMLMLLLAVPNIIILTNQSVREVTQIKCIELKSELGRKWHKASNYIFVAIFWIVFLLLIVFYTAIT  
 KKIFKSHLKSSRNSTSVKKKSSRNIFSVIVFVFCFVPYHIARIPYTKSQTEAHYSCQSKEILRYMKEFT  
 LLLSAANVCLDPIIYFFLCQPFREILCKKLIHIPLKAQNLDLISRIKRGNTTLESTDTL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014879

**ORF Size:** 1014 bp

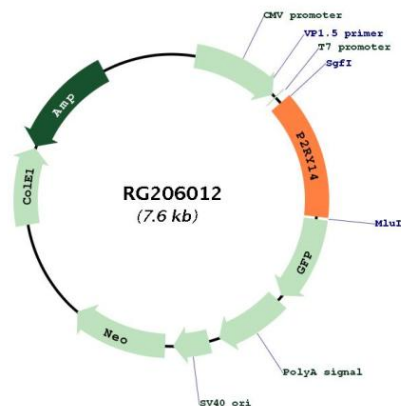
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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>	<a href="#">NM_014879.2</a> , <a href="#">NP_055694.2</a>
<b>RefSeq Size:</b>	2504 bp
<b>RefSeq ORF:</b>	1017 bp
<b>Locus ID:</b>	9934
<b>UniProt ID:</b>	<a href="#">Q15391</a>
<b>Cytogenetics:</b>	3q25.1
<b>Domains:</b>	7tm_1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	The product of this gene belongs to the family of G-protein coupled receptors, which contains several receptor subtypes with different pharmacological selectivity for various adenosine and uridine nucleotides. This receptor is a P2Y purinergic receptor for UDP-glucose and other UDP-sugars coupled to G-proteins. It has been implicated in extending the known immune system functions of P2Y receptors by participating in the regulation of the stem cell compartment, and it may also play a role in neuroimmune function. Two transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG206012