

Product datasheet for **RG224391**

GPR105 (P2RY14) (NM_001081455) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GPR105 (P2RY14) (NM_001081455) 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: >RG224391 representing NM_001081455
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCAATTC AACCTCCACACAGCCTCCAGATGAATCCTGCTCTCAGAACCTCCTGATCACTCAGCAGAG
TCATTCTGTGCTGTACTGTATGGTCTTCATTGCAGGAATCCTACTCAATGGAGTGTGAGGATGGATATT
CTTTTACGTGCCAGCTCTGAGAGTTTCATCATCTATCTCAAGAACATTGTTATTGCTGACTTTGTGATG
AGCCTGACTTTTCCTTTCAAGATCCTTGGTGACTCAGGCCTTGGTCCCTGGCAGCTGAACGTGTTTGTGT
GCAGGGTCTCTGCCGTGCTCTTCTACGTCAACATGTACGTGAGCATTGTGTTCTTTGGGCTCATCAGCTT
TGACAGATATTATAAAATGTAAAGCCTCTTTGGACTTCTTTCATCCAGTCAGTGAGTTACAGCAAACCTT
CTGTCACTGATAGTATGGATGCTCATGCTCCTCTTGGTGTCCAAATATTATTCTACCAACCAGAGTG
TTAGGGAGGTTACACAAATAAAATGTATAGAAGTAAAAGTGAAGTGGGACGGAAGTGGCACAAAGCATC
AACTACATCTTCGTGGCCATCTTCTGGATTGTGTTTCTTTTGTAAATCGTTTTCTATACTGCTATCACA
AAGAAAATCTTTAAGTCCCACCTTAAGTCAAGTCGGAATCCACTTCGGTCAAAAAGAAATCTAGCCGCA
ACATATTCAGCATCGTGTGTTTGTGTTTTTGTCTGTTTTGTACCTTACCATTGCCAGAATCCCCTACAC
AAAGAGTCAGACCGAAGCTCATTACAGCTGCCAGTCAAAAAGAAATCTTGGGTATATGAAAGAATCACT
CTGCTACTATCTGCTGCAATGTATGCTTGGACCCTATTATTTATTTCTTCTATGCCAGCCGTTTAGGG
AAATCTTATGTAAGAAATTCACATTCCATTAAGCTCAGAATGACCTAGACATTTCCAGAATCAAAAG
AGGAAATACAACACTTGAAAGCACAGATACTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224391 representing NM_001081455
 Red=Cloning site Green=Tags(s)

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MINSTSTQPPDESCSQNLLITQQIIPVLYCMVFIAGILLNGVSGWIFFYVPSSSEFIIYLKNIVIADFVM
SLTFPFKILGDSGLGPWQLNVFVCRVSAVLFYVNMVVSIVFFGLISFDRIYKIVKPLWTSFIQSVSYSKL
LSVIVWMLMLLLAVPNIIILTNQSVREVTQIKCIELKSELGRKWHKASNYIFVAIFWIVFLLLIIVFYTAIT
KKIFKSHLKSSRNSTSVKKKSSRNIFSIIVFVFFVCFVPYHIARIPYTKSQTEAHYSCQSKEILRYMKEFT
LLLAAANVCLDPIIYFFLCQPFREILCKKLHIPLKAQNLDLISRIKRGNTTLESTDTL
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081455

ORF Size: 1014 bp

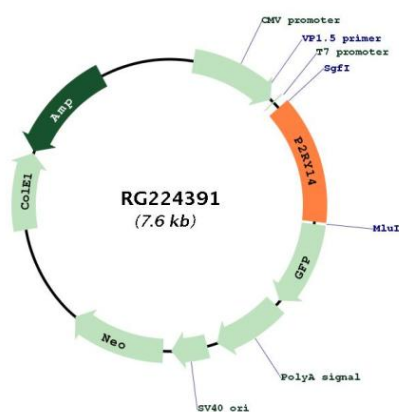
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<ol style="list-style-type: none">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:	<u>NM_001081455.1, NP_001074924.1</u>
RefSeq Size:	2694 bp
RefSeq ORF:	1017 bp
Locus ID:	9934
UniProt ID:	<u>Q15391</u>
Cytogenetics:	3q25.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	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 RG224391