

Product datasheet for **RG211339**

GPR12 (NM_005288) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR12 (NM_005288) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR12
Synonyms:	GPCR12; GPCR21; PPP1R84
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211339 representing NM_005288 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATGAAGACCTGAAGGTCAATTTAAGCGGGCTGCCTCGGGATTATTTAGATGCCGCTGCTGCGGAGA
ACATCTCGGCTGCTGTCTCCTCCCGGTTCTGCCGTAGAGCCAGAGCCTGAGCTCGTAGTCAACCCCTG
GGACATTGTCTTGTGTACCTCGGGAACCCTCATCTCCTGTGAAAATGCCATTGTGGTCTTATCATCTTC
CACAAACCCAGCCTGCGAGCACCATGTTCTGCTAATAGGCAGCCTGGCTCTTGACAGACCTGCTGGCCG
GCATTGGACTCATCACC AATTTGTTTTGCTACCTGCTTCAGTCAGAAGCCACCAAGCTGGTCACGAT
CGGCCTCATTGTGCGCTCTTTCTGCTGCTGTGACGCTTGTGGCTATCACTGTTGACCGCTACCTC
TCACTGTACTACGCTCTGACGTACCATTCGGAGAGGACGGTCACGTTTACCTATGTCATGCTCGTCATGC
TCTGGGGACCTCCATCTGCCTGGGGTCTGCCCCGTCATGGGCTGGAAGTGCCTCCGAGACGAGTCCAC
CTGCAGCGTGGTCAGACCGCTCACCAAGAACAACGCGGCCATCCTCTCGGTGCTCCTTCTTATGTTT
GCGCTCATGCTTCAGCTCTACATCCAGATCTGTAAGATTGTGATGAGGCACGCCATCAGATAGCCCTGC
AGCAACTTCTGGCCACGTGCACTATGTGACCACCCGAAAGGGTCTCCACCCTGGCTATCATCTCCT
GGGACGTTTGTGCTGGTGGATGCCTTTCACCCTCTATTCTTGATAGCGGATTACACCTACCCCTCC
ATCTATACCTACGCCACCCTCCTGCCGCCACCTACAATTCCATCATCAACCCTGCATATATGCTTTCA
GAAACCAAGAGATCCAGAAAGCGCTCTGTCTCATTGCTGCGGCTGCATCCCGTCCAGTCTCGCCAGAG
AGCGCGCTCGCCAGTGATGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211339 representing NM_005288
 Red=Cloning site Green=Tags(s)

MNEDLKVNL SGLPRDYLDAAA AENISA AVSSRVP AVEPEPELVVNPWDIVLCTSGTLISCENAIVLIIIF
 HNPSLRAPMFL I GSLALADLLAG IGLITNFVFAYLLQSEATKLVITGLIVASFSAVCSLLAITVD RYL
 SLYYALTYHSERTVTFTYVMLVMLWGTSICLGLLPVMGWNC LRDESTCSVVRPLTKNNA ILSVSFLFMF
 ALMLQLYIQICKIVMRHAHQIALQHHFLATSHYVTRRKGVSTLAILGTFAACWMPFTLYSLIADYTYP S
 IYTYATLLPATYNSIINPVIYAFRNQEIQKALCLICCGCIPSSLAQRARSPSDV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005288

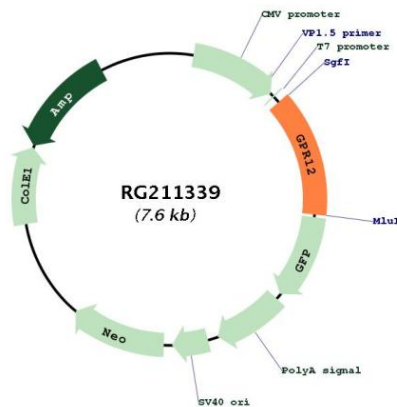
ORF Size: 1002 bp

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_005288.4</u>
RefSeq Size:	1005 bp
RefSeq ORF:	1005 bp
Locus ID:	2835
UniProt ID:	<u>P47775</u>
Cytogenetics:	13q12.13
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Gene Summary:	Promotes neurite outgrowth and blocks myelin inhibition in neurons (By similarity). Receptor with constitutive G(s) signaling activity that stimulates cyclic AMP production. [UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RG211339