

Product datasheet for **RG234416**

GPR161 (NM_001267609) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR161 (NM_001267609) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR161
Synonyms:	RE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG234416 representing NM_001267609
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAGCAAGAGGAGTCTGCCAGCATGCTCTGCCACCCACGCCGAGGTGCACTGACCATGAGCCTCA
 ACTCCTCCCTCAGCTGCAGGAAGGAGCTGAGTAATCTCACTGAGGAGGAGGGTGGCGAAGGGGGCGTCAT
 CATCACCCAGTTCATCGCCATCATTGTCATCACCATTTTTGTCTGCCTGGAAACCTGGTCATCGTGGTC
 ACCTTGTACAAGAAGTCTACCTCCTCACCCCTCAGCAACAAGTTCGTCTTCAGCCTGACTCTGTCCAAT
 TCCTGTGTCCGTGTTGGTGTGCCTTTTGGTGTGACGAGCTCCATCCGACGGGAATGGATCTTTGGTGT
 AGTGTGGTGAACCTCTCTGCCCTCCTCTACCTGCTGATCAGCTCTGCCAGCATGCTAACCTCGGGGTC
 ATTGCCATCGACCGCTACTATGCTGTCTGTACCCCATGGTGTACCCCATGAAGATCACAGGGAACCGGG
 CTGTGATGGCACTTGTCTACATCTGGCTTCACTCGCTCATCGGCTGCCTGCCACCCCTGTTTGGTGGTC
 ATCCGTGGAGTTTACGAGTTCAAATGGATGTGTGGCTGCTTGGCACCAGGAGCTGGCTACACGGCC
 TTCTGGCAGATCTGGTGTGCCCTTCCCTTTCTGGTCATGCTGGTGTGCTATGGCTTCATCTTCCGCG
 TGGCCAGGGTCAAGGCACGCAAGGTGCACTGTGGCACAGTCGTCATCGTGGAGGAGGATGCTCAGAGGAC
 CGGGAGGAAGAACTCCAGCACCTCCACCTCCTTTCAGGCAGCAGGAGGAATGCCTTTCAGGGTGTGGTC
 TACTCGGCCAACCAGTGCAGAACCCCTCATCACCATCCTGGTGGTCTCGGTGCCTTCATGGTCACCTGGG
 GCCCTACATGGTTGTCATCGCCTCTGAGGCCCTCTGGGGGAAAAGCTCCGTCTCCCCGAGCCTGGAGAC
 TTGGGCCACATGGCTGTCTTTGCCAGCGCTGTCTGCCACCCCTGATCTATGGACTCTGGAACAAGACA
 GTTCGAAAGAAGTACTGGGCATGTGCTTTGGGACCGGATTTATCGGGAACCTTTGTGCAACGACAGA
 GGACTTCCAGGCTCTTCAGCATTCCAACAGGATCACAGACCTGGGCTGTCCCCACCTCACTACGCGCT
 CATGGCAGGTGGACAGCCCTGGGGCACAGCAGCAGCAGCGGGGACACTGGCTTCAGCTGCTCCCAGGAC
 TCAGGGACAGATATGATGCTGCTTGGAGACTACAGTCTGATGACAACCTCCCTCTCACTGCACCTTGCC
 CACCCAAGAGAAGGAGCTCGGTGACATTTGAGGATGAAGTGAACAACAAAGAAAGCTGCCAAGAAGTCT
 GATTCTTCATGTGAAAGCTGAAGTACACAAGTCTTGGACAGTTACGCAGCAAGCTTGGCCAAAGCCATT
 GAGGCCGAAGCCAAAATCAACTATTTGGGAGGAGGCTTTGCCAGGGTCTTGGTTACAGCACGGACTG
 TCCCGGGGGCGGCTTCGGGGCCGCCGAGGCAGCAGAACTCTTGTGAGCCAGAGGCTGCAGTTGCAGAG
 CATCGAAGAAGGAGATGTTTTAGCTGCCGAGCAGAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234416 representing NM_001267609
 Red=Cloning site Green=Tags(s)

MSARGVVQHALPTPRRGALTMSLNSSLSCRKELSNL TEEEGGEGGVIIITQFIAIIIVITIFVCLGNLVIVV
 TLYKKS YLLT LSNKFV FSLT LSNFLLSVLVLPFVVTSSIRREWIFGVVWCNFSALLYLLISSASMLTLGV
 IAIDRYAVLYPMVYPMKITGNRAVMALVYIWLHSLIGCLPPLFGWSSVEFDEFKWCVAAWHREPGYTA
 FWQIWCALFPFLVMLVCYGFIFRVARVKARKVHCGTVVIVEEDAQR TGRKNSSTSTSSSGSRRAFQGVV
 YSANQCKALITILVVLGAFMVTWGPYMVVIASEALWGKSSVSPSLETWATWLSFASAVCHPLIYGLWNKT
 VRKELLMCFGDRYYREPFVQRQRTSRLFSISNRITDLGLSPHLTALMAGGQPLGHSSTGDTGFSCSQD
 SGTDMMLLEDYTSDDNPPSHCTCPPKRRSVTFEDEVQIKEAAKNSILHVKAEVHKSLSLYAASLAKAI
 EAEAKINLFGEEALPGVLVARTVPGGGFGRRGSRTLVSQRLQLQSIEEGDVLAAEQR

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja3502_e06.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001267609

ORF Size: 1647 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:

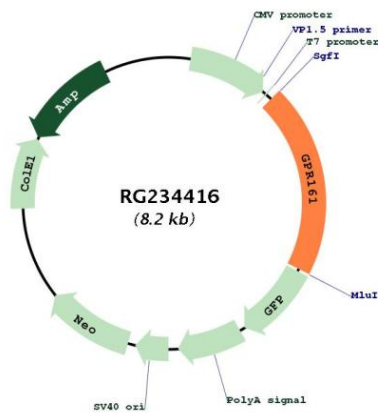
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001267609.1](#), [NP_001254538.1](#)

RefSeq Size: 8265 bp
RefSeq ORF: 1650 bp
Locus ID: 23432
UniProt ID: [Q8N6U8](#)
Cytogenetics: 1q24.2
Protein Families: Druggable Genome, GPCR, Transmembrane
Gene Summary:

The protein encoded by this gene is an orphan G protein-coupled receptor whose ligand is unknown. This gene is overexpressed in triple-negative breast cancer, and disruption of this gene slows the proliferation of basal breast cancer cells. Therefore, this gene is a potential drug target for triple-negative breast cancer. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RG234416