

Product datasheet for **RC234416**

GPR161 (NM_001267609) Human Tagged ORF Clone

Product data:

| | |
|--------------------|----------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | GPR161 (NM_001267609) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | GPR161 |
| Synonyms: | RE2 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



[View online »](#)

ORF Nucleotide Sequence:

>RC234416 representing NM_001267609
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAGCAAGAGGAGTCTGCCAGCATGCTCTGCCACCCACGCCGAGGTGCACACTGACCATGAGCCTCA
 ACTCCTCCCTCAGCTGCAGGAAGGAGCTGAGTAATCTCACTGAGGAGGAGGGTGGCGAAGGGGGCGTCAT
 CATCACCCAGTTCATCGCCATCATTGTCATCACCATTTTTGTCTGCCTGGAAACCTGGTCATCGTGGTC
 ACCTTGTACAAGAAGTCTACCTCCTCACCCCTCAGCAACAAGTTCGTCTTCAGCCTGACTCTGTCCAAT
 TCCTGTGTCCGTGTTGGTGTGCCTTTTGGTGTGACGAGCTCCATCCGACGGGAATGGATCTTTGGTGT
 AGTGTGGTGAACCTCTCTGCCCTCCTCTACCTGCTGATCAGCTCTGCCAGCATGCTAACCTCGGGGTC
 ATTGCCATCGACCGCTACTATGCTGTCTGTACCCCATGGTGTACCCCATGAAGATCACAGGGAACCGGG
 CTGTGATGGCACTTGTCTACATCTGGCTTCACTCGCTCATCGGCTGCCTGCCACCCCTGTTTGGTGGTC
 ATCCGTGGAGTTTACGAGTTCAAATGGATGTGTGGCTGCTTGGCACCAGGAGCTGGCTACACGGCC
 TTCTGGCAGATCTGGTGTGCCCTTCCCTTTCTGGTCACTGGTGTGCTATGGCTTCACTTCCGCG
 TGGCCAGGGTCAAGGCACGCAAGGTGCACTGTGGCACAGTCGTCATCGTGGAGGAGGATGCTCAGAGGAC
 CGGGAGGAAGAACTCCAGCACCTCCACCTCCTTTCAGGCAGCAGGAGGAATGCCTTTCAGGGTGTGGTC
 TACTCGGCCAACCAGTGCAGAACCCCTCATCACCATCCTGGTGGTCTCGGTGCCTTCATGGTCACCTGGG
 GCCCTACATGGTTGTATCGCCTCTGAGGCCCTCTGGGGGAAAAGCTCCGTCTCCCCGAGCCTGGAGAC
 TTGGGCCACATGGCTGTCTTGGCAGCGCTGTCTGCCACCCCTGATCTATGGACTCTGGAACAAGACA
 GTTCGCAAAGAAGTACTGGGCATGTGCTTTGGGACCGGATTTATCGGGAACCATTTGTGCAACGACAGA
 GGACTCCAGGCTCTTTCAGCATTTCACACAGGATCACAGACCTGGGCTGTCCCCACACCTCACTCGCGT
 CATGGCAGGTGGACAGCCCTGGGGCACAGCAGCAGCAGCGGGGACACTGGCTTCAGCTGCCTCCAGGAC
 TCAGGGACAGATATGATGCTGCTTGGAGACTACAGTCTGATGACAACCTCCCTCTCACTGCACCTTGCC
 CACCCAAGAGAAGGAGCTCGGTGACATTTGAGGATGAAGTGAACAATAAAGAAGCTGCCAAGAAGTCT
 GATTCTTCATGTAAAGCTGAAGTACACAAGTCTTGGACAGTTACGCAGCAAGCTTGGCCAAAGCCATT
 GAGGCCGAAGCCAAAATCAACTATTTGGGGAGGAGGCTTGGCAGGGTCTTGGTTACAGCAGGACTG
 TCCCGGGGGCGGCTTGGGGGCCGCCGAGGCAGCAGAACTCTTGTGAGCCAGAGGCTGCAGTTGCAGAG
 CATCGAAGAAGGAGATGTTTTAGCTGCCGAGCAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234416 representing NM_001267609
 Red=Cloning site Green=Tags(s)

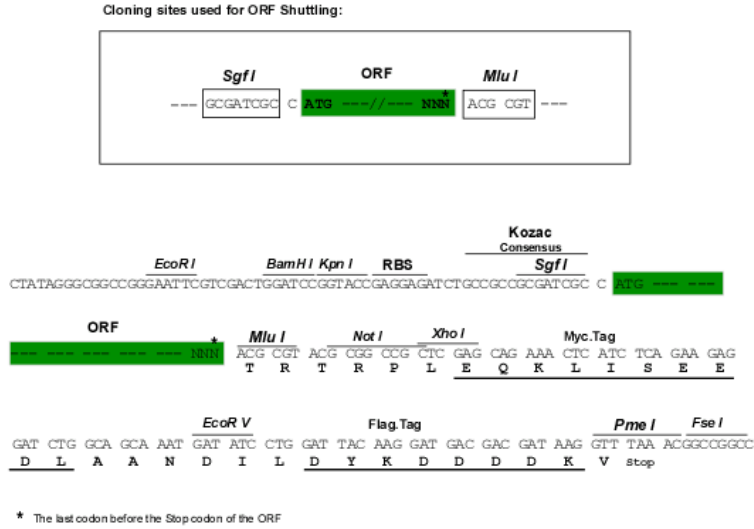
MSARGVVQHALPTPRRGALTMSLNSSLSCRKELSNL TEEEGEGGVIIITQFIAIIVITIFVCLGNLVIV
 TLYKKS YLLT LSNKFVSLT LSNFLLSVLVPFVVTSSIRREWIFGVVWCNFSALLYLLISSASMLTLGV
 IAIDRYAVLYPMVYPMKITGNRAVMALVYIWLHSLIGCLPPLFGWSSVEFDEFKWMCVAAWHREPQYTA
 FWQIWCALFPFLVMLVCYGFIFRVARVKARKVHCGTVVIVEEDAQRTGRKNSSTSTSSSGSRRNAFQGVV
 YSANQCKALITILVVLGAFMVTWGPYMVVIASEALWGKSSVSPLETWATWLSFASAVCHPLIYGLWNT
 VRKELLMCFGDRYYREPFVQRQRTSRLFSISNRITDLGLSPHLTALMAGGQPLGHSSSTGDTGFSCSQD
 SGTDMMLLEDYTSDDNPPSHCTCPPKRRSSVTFEVEVEQIKEAAKNSILHVKAHVHKSLSYASLAKAI
 EAEAKINLFGEEALPGVLVARTVPGGGFGRRGSRTLVSQRLQLQSIEEGDVLAAEQR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

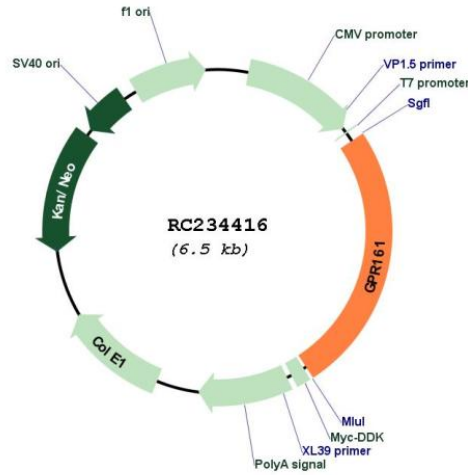
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



| | |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACCN: | NM_001267609 |
| ORF Size: | 1647 bp |
| OTI Disclaimer: | <p>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.</p> <p>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</p> |
| 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: | 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 |
| MW: | 60.66 kDa |
| 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] |