

Product datasheet for **RG232766**

GPR161 (NM_001267613) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR161 (NM_001267613) 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)



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ORF Nucleotide Sequence:

>RG232766 representing NM_001267613
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGAGGGCGTAGTGCCTGCCGGGACTCTGCCGATGCGGGCCGCCCCCTGGGGCCAAAGACTCC
 ACGTCCCCTCAGGGCAAAGGGTGTGGGAGAAGCGGTACGCCCCCTCGGCTGGAATCCGTGAGGACCAG
 CTAATATGCTGTCTGTACCCCATGGTGTACCCATGAAGATCACAGGAACCGGCTGTGATGGCACTT
 GTCTACATCTGGCTTCACTCGCTCATCGGCTGCCACCCCTGTTGGTTGGTCATCCGTGGAGTTTG
 ACGAGTCAAATGGATGTGTGGCTGCTTGGACCCGGGAGCCTGGCTACACGGCCTTCTGGCAGATCTG
 GTGTGCCCTCTCCCTTTCTGGTCATGCTGGTGTGCTATGGCTTCTCCGCGTGGCCAGGGTCAAG
 GCACGCAAGGTGCACTGTGGCACAGTCGTATCGTGGAGGAGGATGCTCAGAGGACCGGGAGGAAGAACT
 CCAGCACCTCCACCTCTTCCAGGCAGCAGGAGGAATGCCTTTCAGGGTGTGGTCTACTCGGCCAACCA
 GTGCAAGCCCTCATCACCATCCTGGTGGTCTCGGTGCCTTCATGGTCACTGGGGCCCTACATGGTT
 GCATCGCCTCTGAGGCCCTCTGGGGGAAAAGCTCCGTCTCCCGAGCCTGGAGACTTGGGCCACATGGC
 TGTCTTTGCCAGCGCTGTCTGCCACCCCTGATCTATGGACTCTGGAACAAGACAGTTCGCAAAGAACT
 ACTGGGCATGTGCTTTGGGGACCGGATATTACGGGAACCATTTGTGCAACGACAGAGGACTTCCAGGCTC
 TTCAGCATTTC AACAGGATCACAGACCTGGGCCTGTCCACACCTCACTGCGCTCATGGCAGGTGGAC
 AGCCCCGGGGCACAGCAGCAGCAGCGGGGACACTGGCTTCACTGCTCCAGGACTCAGGGACAGATAT
 GATGCTGCTTGGAGACTACAGTCTGATGACAACCCTCCCTCTCACTGCCTTGGCCACCAAGAGAAGG
 AGCTCGGTGACATTTGAGGATGAAGTGAACAAATCAAAGAAGCTGCCAAGAAGCTGATTCTTTCATGTGA
 AAGCTGAAGTACACAAGTCTTTGGACAGTTACGCAGCAAGCTTGGCCAAAGCCATTGAGGCCGAAGCCAA
 AATCAACTTATTTGGGGAGGAGGCTTGGCCAGGGGTCTTGGTTACAGCACGGACTGTCCCGGGGGCGGC
 TTCGGGGGCCCGAGGAGCAGAACTCTTGTGAGCCAGAGGCTGCAGTTGCAGGCATCGAAGAAGGAG
 ATGTTTTAGTGCCGAGCAGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG232766 representing NM_001267613
 Red=Cloning site Green=Tags(s)

MGRRCPVPTLPMRAAPPKAKRLHVPLRAKGVGRSGHAPRLESVRTSYAVLYPMVYPMKITGNRAVMAL
 VYIWLHSLIGCLPPLFGWSSVEFDEFKWMCVAAWHREPGYAFWQIWCALFPFLVMLVCYGFIFRVARVK
 ARKVHCGTVVIVEEDAQRTGRKNSSTSTSSGSRRAFQGVVYSANQCKALITILVVLGAFMVTWGPYMV
 VIASEALWGKSSVSPLETWATWLSFASAVCHPLIYGLWNKTVRKELLMCFGDRYYREPFVQRQRTSRL
 FSI SNRITDLGLSPHLTALMAGGQPLGHSSTGDTGFSCSQDSGTMMLLEDYTSDDNPPSHCTCPPKRR
 SSVTFEVEVEIQIEAAKNSILHVKAIEVHKSLDSY AASLAKAIEAEAKINLFGEEALPGVLTARTVPGGG
 FGRRRSRTLVSQRLQLQSIIEGDVLAEEQR

TRTRPLE - GFP Tag - V

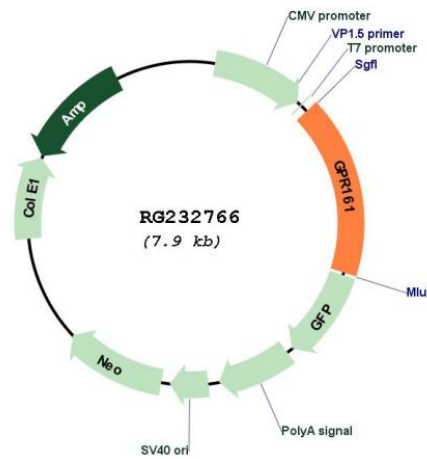
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001267613

ORF Size: 1353 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).
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_001267613.1, NP_001254542.1</u>
RefSeq Size:	7664 bp
RefSeq ORF:	1356 bp
Locus ID:	23432
UniProt ID:	<u>Q8N6U8</u>
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]