

Product datasheet for **RG215665**

GPR161 (NM_153832) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR161 (NM_153832) 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:

>RG215665 representing NM_153832
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCTCAACTCCTCCTCAGCTGCAGGAAGGAGCTGAGTAATCTCACTGAGGAGGAGGGTGGCGAAG
 GGGCGTCATCATCACCCAGTTCATCGCCATCATTGTCAACCAATTTTGTCTGCCTGGGAAACCTGGT
 CATCGTGGTCACCTTGTACAAGAAGTCCTACCTCACCTCAGCAACAAGTTCGTCTTCAAGCCTGACT
 CTGTCCAACCTTCTGCTGTCCGTGTTGGTGTGCCTTTTGTGGTACGAGCTCCATCCGACAGGAAATGGA
 TCTTTGGTGTAGTGTGGTGAACCTCTCTGCCCTCCTCTACCTGCTGATCAGCTCTGCCAGCATGCTAAC
 CCTCGGGGTATTGCCATCGACCGCTACTATGCTGTCTGTACCCATGGTGTACCCCATGAAGATCACA
 GGAACCCGGGCTGTGATGGCACTGTCTACATCTGGCTTCACTCGCTCATCGGCTGCCTGCCACCCCTGT
 TTGGTTGGTTCATCCGTGGAGTTGACGAGTTCAAATGGATGTGTGTGGCTGCTTGGCACCAGGAGCCTGG
 CTACACGGCCTTCTGGCAGATCTGGTGTGCCCTTCCCTTTCTGGTCACTGCTGGTGTGCTATGGCTTC
 ATCTTCCGCGTGGCCAGGGTCAAGGCACCAAGGTGCACTGTGGCACAGTCGTCATCGTGGAGGAGGATG
 CTCAGAGGACCGGGAGGAAGAATCCAGCACCTCCACCTCCTCTTTCAGGCAGCAGGAGGAATGCCTTTCA
 GGGTGTGGTCTACTCGGCCAACCAGTGCAAAGCCCTCATCACCATCCTGGTGGTCTCGGTGCCTTCATG
 GTCACCTGGGGCCCTACATGGTTGTATCGCCTCTGAGGCCCTCTGGGGAAAAGCTCCGTCTCCCCGA
 GCCTGGAGACTTGGGCCACATGGCTGTCTTGGCAGCGCTGTCTGCCACCCCTGATCTATGGACTCTG
 GAACAAGACAGTTCGCAAGAATACTGGGCATGTGCTTTGGGGACCGGTATTATCGGGAACCATTTGTG
 CAACGACAGAGGACTTCCAGGCTCTTCAAGATTTCCAACAGGATCACAGACCTGGGCCTGCCCCACACC
 TCACTGCGCTCATGGCAGGTGGACAGCCCTGGGGCACAGCAGCAGCAGCGGGGACACTGGCTTCACTG
 CTCCAGGACTCAGGGACAGATATGATGCTGCTTGGAGACTACAGTCTGATGACAACCCCTCCCTCTCAC
 TGCACTTGCCACCCAAGAGAAGGAGCTCGGTGACATTTGAGGATGAAGTGAACAATAAAGAAGCTG
 CCAAGAATACTGATTCTTCACTGTAAAGCTGAAGTACACAAGTCTTGGACAGTTACGCAGCAAGCTTGGC
 CAAAGCCATTGAGGCCGAAGCCAAAATCAACTATTTGGGGAGGAGGCTTGGCAGGGGTCTTGGTTACA
 GCACGGACTGTCCCGGGGGCGGCTTGGGGGCCGCCGAGGCAGCAGAATCTTGTGAGCCAGAGGCTGC
 AGTTGCAGAGCATCGAAGAAGGAGATGTTTTAGCTGCCGAGCAGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215665 representing NM_153832
 Red=Cloning site Green=Tags(s)

MSLNSSLSCRKELSNL TEEEGEGGVIIITQFIAIIVITIFVCLGNLVIVVTLKYKSYLLTLSNKFVFSLT
 LSNFLLSVLVPFVVTSSIRREWFVGVWCNFSALLYLLISSASMLTLGVIAIDRYAYVLYPMVYPMKIT
 GNRVAVMALVYIWLHSLIGCLPPLFGWSSVEFDEFKWMCVAAWHREPQYAFWQIWCALFPFLVMLVYGF
 IFRVARVKARKVHCGTVVIVEEDAQRTRGRKNSSTSTSSSGSRNAFQGVVYSANQCKALITILVVLGAFM
 VTWGPYMVVIASEALWKGSSVSPSLETWATWLSFASAVCHPLIYGLWNKTVRKELLMCFGDRRYREP
 QQRQTSRFLFSISNRITDLGLSPHLTALMAGGQPLGHSSSTGDTGFSQSQDSGDMMLLEDYTSDDNPPSH
 CTCPPKRRSSVTFEVEVEQIKEAAKNSILHVKAIEVHKSLSLSYAASLAKAIEAEAKINLFGEEALPGVLVT
 ARTVPGGGFGRRRSRTLVSQRLQLQSIEEGDVLAAEQR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_153832

ORF Size: 1587 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:

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_153832.3](#)

RefSeq Size: 8222 bp

RefSeq ORF: 1590 bp

Locus ID: 23432

UniProt ID: [Q8N6U8](#)

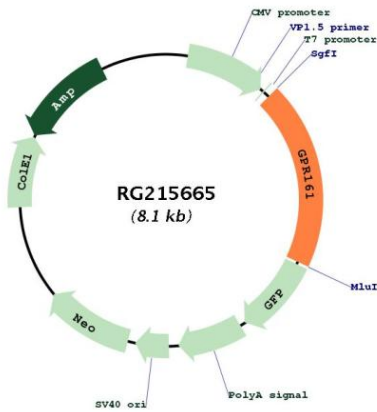
Cytogenetics: 1q24.2

Domains: 7tm_1

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 RG215665