

Product datasheet for **RG232681**

GPR161 (NM_001267614) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GPR161 (NM_001267614) 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)
ORF Nucleotide Sequence: >RG232681 representing NM_001267614
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCGTGCCCGTGGCTGGATGAATGAAAGCTACTATGCTGTCCTGTACCCCATGGTGTACCCCATGA
 AGATCACAGGGAACCGGGCTGTGATGGCACTTGTCTACATCTGGCTTCACTCGCTCATCGGCTGCCTGCC
 ACCCTGTTTGGTTGGTCATCCGTGGAGTTTACGAGTCAAATGGATGTGTGGCTGCTTGGCACC GG
 GAGCCTGGCTACACGGCCTTCTGGCAGATCTGGTGTGCCCTCTCCCTTCTGGTCATGCTGGTGTGCT
 ATGGCTTCATCTCCGCTGGCCAGGTC AAGGCACGCAAGGTGCACTGTGGCACAGTCGTCATCGTGGA
 GGAGGATGCTCAGAGGACCGGGAGGAAGAACTCCAGCACCTCCACCTCCTTTCAGGCAGCAGGAGGAAT
 GCCTTTCAGGGTGTGGTCTACTCGGCCAACCAGTGCAAAGCCCTCATCACCATCCTGGTGGTCTCGGTG
 CCTTCATGGTCACCTGGGGCCCTACATGGTTGTATCGCCTCTGAGGCCCTCTGGGGGAAAAGCTCCGT
 CTCCCCGAGCCTGGAGACTTGGGCCACATGGCTGTCTTTGCCAGCGCTGTCTGCCACCCCTGATCTAT
 GGACTCTGGAACAAGACAGTTCCGAAAGAACTACTGGGCATGTGCTTTGGGGACCGGTATTATCGGGAAC
 CATTTGTGCAACGACAGAGGACTTCCAGGCTCTCAGCATTTCCAACAGGATCACAGACCTGGGCCTGTC
 CCCACACCTCACTGCGCTCATGGCAGGTGGACAGCCCCGGGGCACAGCAGCAGCAGCGGGGACACTGCC
 TTCAGTGTCTCCAGGACTCAGGACAGATATGATGCTGCTTGGAGACTACAGTCTGATGACAACCCCTC
 CCTCTCACTGCACTTGCCACCCAAGAGAAGGAGCTCGGTGACATTTGAGGATGAAGTGAACAATAA
 AGAAGCTGCCAAGAACTCGATTCTCATGTGAAAGCTGAAGTACACAAGTCTTGACAGTTACGCAGCA
 AGCTTGGCCAAAGCCATTGAGGCCAAGCCAAAATCAACTATTTGGGGAGGAGGCTTTGCCAGGGGTCT
 TGGTTACAGCACGGACTGTCCCAGGGGGCGCTTCGGGGGCCCGAGGCAGCAGAACTCTTGTGAGCCA
 GAGGCTGCAGTTGCAGAGCATCGAAGAAGGAGATGTTTTAGCTGCCGAGCAGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232681 representing NM_001267614
Red=Cloning site Green=Tags(s)

MLVPVGMNESYAVLYPMVYPMKITGNRAVMALVYIWLHSLIGCLPPLFGWSSVEFDEFKWMCVAAWHR
 EPGYTAFWQIWCALFPFLVMLVCYGFIFRVARVKARKVHCCTVVIVEEDAQRTGRKNSSTSTSSSGSRRN
 AFQGVVYSANQCKALITILVVLGAFMVTWGPYMVVIASEALWGKSSVSPSLETWATWLSFASAVCHPLIY
 GLWNKTVRKELLGMCFGDRYYREPFVQRQRTSRLFSISNRITDLGLSPHLTALMAGGQPLGHSSTGDTG
 FSCSQDSGTDMMLLEDYTSDDNPPSHCTCPPKRRSSVTFEDEVQIKEAAKNSILHVKAIEVHKSLDSYAA
 SLAKAIEAEAKINLFGEEALPGVLVTARTVPGGGFGRRGSRRTLVSQRLQLQSIEEGDVLAAEQR

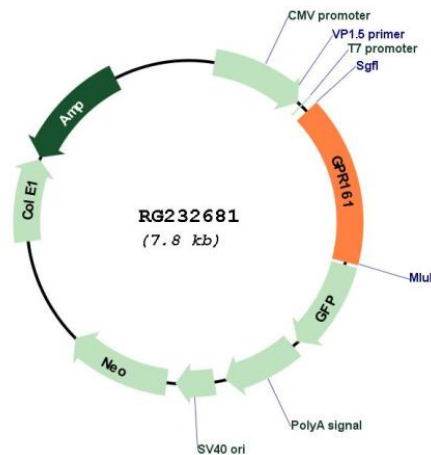
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001267614

ORF Size:	1245 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:	NM_001267614.1 , NP_001254543.1
RefSeq Size:	7397 bp
RefSeq ORF:	1248 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]