

Product datasheet for **SC100531**

GPR161 (NM_153832) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR161 (NM_153832) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR161
Synonyms:	RE2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC100531 sequence for NM_153832 edited (data generated by NextGen Sequencing)

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ATGAGCCTCAACTCCTCCCTCAGCTGCAGGAAGGAGCTGAGTAATCTCACTGAGGAGGAG
GGTGGCGAAGGGGGCGTCATCATACCCAGTTCATCGCCATCATTGTCATCACCATTTTT
GTCTGCCTGGGAAACCTGGTCATCGTGGTACCTTGTACAAGAAGTCTACCTCCTCACC
CTCAGCAACAAGTTCGTCTTCAGCCTGACTCTGTCCAACCTCTGTGTCCTGTTGGTG
CTGCCCTTTTGGTGGTACGAGCTCCATCCGAGGGAATGGATCTTTGGTGTAGTGGTGC
AACTTCTCTGCCCTCCTCTACCTGCTGATCAGCTCTGCCAGCATGCTAACCTCGGGGTC
ATTGCCATCGACCGCTACTATGCTGTCTGTACCCCATGGTGTACCCCATGAAGATCACA
GGGAACCGGGGCTGTGATGGCACTTGTCTACATCTGGCTCACTCGCTCATCGGCTGCCTG
CCACCCCTGTTTGGTGGTTCATCCGTGGAGTTGACGAGTTCAAATGGATGTGTGGCT
GCTTGGCACCGGGAGCCTGGCTACACGGCCTTCTGGCAGATCTGGTGTGCCCTCTCCCC
TTTCTGGTCATGCTGGTGTGCTATGGCTTCATCTCCGCGTGGCCAGGGTCAAGGCACGC
AAGGTGCACTGTGGCACAGTCGTCATCGTGGAGGAGGATGCTCAGAGGACCGGGAGGAAG
AACTCCAGCACCTCCACCTCCTCTTCAGGCAGCAGGAGGAATGCCTTTCAGGGTGTGGTC
TACTCGGCCAACCAAGTGC AAAGCCCTCATCACCATCCTGGTGGTCTCGGTGCCTTCATG
GTCACCTGGGGCCCTACATGGTTGTCATCGCCTCTGAGGCCCTCTGGGGAAAAGCTCC
GTCTCCCCGAGCCTGGAGACTTGGGCCACATGGCTGTCTTTGCCAGCGCTGTCTGCCAC
CCCCTGATCTATGGACTCTGGAACAAGACAGTTCGAAAGAACTACTGGGCATGTGCTTT
GGGGACCGGATATTATCGGAACCATTTGTGCAACGACAGAGGACTTCCAGGCTCTTCAGC
ATTTCCAAACAGGATCACAGACCTGGGCCGTCCCCACACCTCACTGCGCTCATGGCAGGT
GGACAGCCCCTGGGGCACAGCAGCAGCAGCGGGGACACTGGCTTACAGTGTCTCCAGGAC
TCAGGGACAGATATGATGCTGCTTGGAGACTACAGTCTGATGACAACCCCTCCCTCAC
TGCACTTGCCCCACCAAGAGAAGGAGCTCGGTGACATTTGAGGATGAAGTGAACAATAATC
AAAGAAGCTGCCAAGAACTCGATTCTTTCATGTGAAAGCTGAAGTACACAAGTCTTGGAC
AGTTACGCAGCAAGCTTGGCCAAAGCCATTGAGGCCGAAGCCAAAATCAACTATTTGGG
GAGGAGGCTTTGCCAGGGGTCTTGGTTACAGCACGGACTGTCCCGGGGGGGCGCTTCGGG
GGCCGCCGAGGCAGCAGAACTCTTGTGAGCCAGAGGCTGCAGTTGCAGAGCATCGAAGAA
GGAGATGTTTTAGCTGCCGAGCAGAGATGA
    
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Clone variation with respect to NM_153832.1

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_153832 unedited
CTATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCGCTCAGGC
AAAGGTGTGGGGAAGCGGTACGCCCCCTCGGCTGGAATCCGTGAGGACCAGCCTGGTG
CACTGTGCGTCTCTGAGAGGTGAAGGAGCACTGTGTGGTCAAGGGCTGCGAGCTCTCT
GTTTGGGTTCCGAGGAAGACAGAATGGGCTGAACTGGAACACTAAATGTCAGCAAGA
GGAGGTCTTTTTAGTGTGCTCAATATGGTACCAAGCCGGAACATAGAGTCTCACC
TGTGCTTAGGCAGATGGCGGATCTCGGCTCCTGGGTTCAAGCAATTCTCCTGCCTCAG
CCTCCTGAATAGCCGGGATTACAGTCGTCCAGCATGCTCTGCCACCCACGCCGAGGTG
CACTGACCATGAGCCTCAACTCCTCCCTCAGCTGCAGGAAGGAGCTGAGTAATCTCACTG
AGGAGGAGGGTGGCGAAGGGGGCGTCATCATACCCAGTTCATCGCCATCATTGTCATCA
CCATTTTTGTCTGCCTGGGAAACCTGGTCATCGTGGTACCTTGTACAAGAAGTCTACC
TCCTCACCCTCAGCAACAAGTTCGTCTTCAGCCTGACTCTGTCCAACCTCTGCTGTCCG
TGTTGGTGTGCTTTTTGTGGTACGAGCTCCATCCGNCNAGGAATGGATCTTTGGTGTAG
TGTGGTGAACCTCTCTGCCCTCCTCTACCTGCTGATCAGCTCTGCCAGCATGCTAACCC
TNCNGTCAATTGCCATCGACCGCTACTATGCTGTCTGTACCCCATGGTGTACCCATGA
AGATCACAGGGNAACCGGGCTGTGATGGCACTTGTCTACATCTGGNCTCACTCGCTCATC
GGCTGCCTGCCACCCCTGNTGGNNNTGTCATCCCGTGAGTTNGACGAAGTCAATGGATGT
GTGTGGGTGCTTGGCACCGAAGCCTGNCTACACNGNCTTCTGGCAGATCTGGTGTGN
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_153832 unedited TATGGAACCGCGCCGCAATCTANNATCGAGTTTTTTTTTTTTTTTTTTTGGCTTTAGATGC TTCTGGTCCCACACTGGGACCTAAAAGAACTCACATGTGGTCTCTGGAAATGCTGAAGC TGTGGACTGTAGACATTATTTTCAGTCCTGTCTGGTGGCTGCATACCAGATGCTGCTC CTTCCCTGTGTGTGGCCAGCTGTACACAGTGACATGCTCCCAAGGCCGCGGCACAGGCGG TGATGGAACTCCTCCCCGGGCCAGCCTCTCAGGCTGCAGCCCCACGGCACCCCTGAGGCC CTCATCTCTGCTCGGCAGCTAAAACATCTCCTTCTTCGATGCTCTGCAACTGCAGCCTCT GGCTCACAAAGAGTTCTGCTGCCTCGGCGGCCCCGAAGCCGCCCCCGGACAGTCCGTG CTGTAACCAAGACCCCTGGCAAAGCCTCCTCCCAAATAAGTTGATTTTTGGCTTCGGCCT CAATGGCTTTGGCCAAGCTTGTGCGTAACTGTCCAAGGACTTGTGACTTCAGCTTTCA CATGAAGAATCGAGTTCTTGGCAGCTTCTTTGATTTGTTCCACTTCATCCTCAAATGTCA CCGAGCTCCTTCTTGGGTGGCAAGTGCAGTGAGAGGGAGGGTTGTCATCAGACGTGT AGTCTCAAGCAGCATCATATCTGTCCCTGAGTCTGGGAGCAGCTGAAGCCAGTGTCCC CCGTGCTGCTGTGTGCCCNAGGGCTGTCCACCTGCCATGAGCGCAGTGAGGTGTGGG ACAGGCCAGGTCTGTGATCCTGTTGAAATGCTGAAGAGCCTGGGAGTCTCTGTGCTT GCACAAATGGTTCCCGAAATACCCGTCCCAAAGACATGCNCAAGTATTCTTGCGAACTGT CTTGTTCCAAAGTCATAGATCANGGGTGGCAAACAAGCGCTGCAAAGGACAGNCATGTG GCCAGTCTCCAGCTCGGGGAGAACGAGCTTTTCCCCCGAG
Restriction Sites:	ECORI-NOT
ACCN:	NM_153832
Insert Size:	2320 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_153832.1</u> , <u>NP_722561.1</u>
RefSeq Size:	2733 bp
RefSeq ORF:	1590 bp
Locus ID:	23432
UniProt ID:	<u>Q8N6U8</u>
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]
Transcript Variant: This variant (3) lacks an alternate exon in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The resulting isoform (2) is shorter compared to isoform 1. Variants 2, 3, 8, 9, and 10 all encode the same isoform (2). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.