

Product datasheet for **SC111332**

GPR48 (LGR4) (NM_018490) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR48 (LGR4) (NM_018490) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR48
Synonyms:	BNMD17; GPR48
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_018490 edited
ATGCCGGGCCCGCTAGGGCTGCTCTGCTTCTCGCCCTGGGGCTGCTCGGCTCGGCCGGG
CCCAGCGGCGCGGCGCCGCTCTCTGCGCGGCGCCCTGCAGCTGCGACGGCGACCGTTCGG
GTGGACTGCTCCGGGAAGGGGCTGACGGCCGTGCCGAGGGGCTCAGCGCCTTACCCAA
GCGCTGGATATCAGTATGAACAACATTACTCAGTTGCCAGAAGATGCATTTAAGAAGCTTT
CCTTTTCTAGAAGAGCTACAATTGGCGGGCAACGACCTTTCTTTTATCCACCCAAAGGCC
TTGTCTGGGTTGAAAGAAGCTCAAAGTTCTAACGCTCCAGAATAATCAGTTGAAAACAGTA
CCCAGTGAAGCCATTCGAGGGCTGAGTGCTTTGCAGTCTTTGCGTTTAGATGCCAACCAT
ATTACCTCAGTCCCCGAGGACAGTTTTGAAGGACTTGTTAGTTACGGCATCTGTGGCTG
GATGACAACAGCTTGACGGAGGTGCCTGTGCACCCCTCAGCAATCTGCCACCCCTACAG
GCGCTGACCCCTGGCTCTCAACAAGATCTCAAGCATCCCTGACTTTGCATTTACCAACCTT
TCAAGCCTGGTAGTTCTGCATCTTCATAACAATAAAATTAGAAGCCTGAGTCAACACTGT
TTTGATGGACTAGATAACCTGGAGACCTTAGACTTGAATTATAATAACTGGGGGAATTT
CCTCAGGCTATTAAGCCCTTCTAGCCTTAAAGAGCTAGGATTTCATAGTAATTCTATT
TCTGTTATCCCTGATGGAGCATTGATGGTAATCCACTTTAAGAACTATACATTTGTAT
GATAATCCTCTGTCTTTTGTGGGAACTCAGCATTTCACAATTTATCTGATCTTCATTCC
CTAGTCATTCGTGGTGAAGCATGGTGCAGCAGTTCCTCAATCTTACAGGAACTGTCCAC
CTGGAAAGTCTGACTTTGACAGGTACAAAGATAAGCAGCATACCTAATAATTTGTGTCAA
GAACAAAAGATGCTTAGGACTTTGGACTTGCTTACAATAATATAAGAGACCTTCCAAGT
TTAATGGTTGCCATGCTCTGGAAGAAATTTCTTACAGCGTAATCAAATCTACCAAATA
AAGGAAGGCACCTTTCAAGGCCTGATATCTCTAAGGATTCTAGATCTGAGTAGAAACCTG
ATACATGAAATTCACAGTAGAGCTTTTCCACACTTTGGCCAATAACTAACCTAGATGTA
AGTTTCAATGAATTAACCTTCTTTCTACGGAAGCCTGAATGGGCTAAATCAACTGAAA
CTTGTGGGCAACTTCAAGCTGAAAGAAGCCTTAGCAGCAAAAGACTTTGTTAACCTCAGG
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AATTTAAACACAGAAGATAACAGCCTCCAGGACCACAGTGGCACAGGAGAAAGGTACT
GCTGATGCAGCAAATGTCACAAGCACTTTGAAAATGAAGAACATAGTCAAATAATTATC
CATTGTACACCTTCAACAGGTGCTTTTAAAGCCCTGTGAATTTTACTGGGAAGCTGGATG
ATTCGCTTACTGTGTGGTTCAATTTCTGGTTGCATTTTCAACCTGCTTGTATT
TTAACAACATTTGCATCTGTACATCACTGCCTTCGTCCAAATGTTTATAGGCTTGATT
TCTGTGCTAACTTATTCATGGGAATCTATACTGGCATCTAACTTTTCTTGATGCTGTG
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GCTGGGTTTCTTGCAATTTCTCCTCAGAAAGTGCCATATTTTATTAATGCTAGCAACT
GTCGAAAGAAGCTTATCTGCAAAAGATATAATGAAAAATGGGAAGAGCAATCATCTCAA
CAGTTCGGGTTGCTGCCCTTTTGGCTTCTAGGTGCTACAGTAGCAGGCTGTTTTCCC
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ACGCCATCATTAGGATCACTGTAACTTAGTGCTATTAACCTCACTAGCATTTTTATTA
ATGGCCGTTATCTACACTAAGCTATACTGCAACTTGAAAAAGAGGACCTCTCAGAAAAC
TCACAATCTAGCATGATTAAGCATGTCGCTTGGCTAATCTTACCAATTGCATCTTTTTT
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TGTCTGCATTGGCAGTGGCTTCTTGCCAAAGACCTGAGGGCTACTGGTCCGACTGTGGC
ACACAGTCGGCCACTCTGATTATGCAGATGAAGAAGATTCTTTGTCTCAGACAGTTCT
GACCAGGTGCAGGCTGTGGACGAGCCTGCTTCTACCAGAGTAGAGGATTCCTTTGGTG
CGCTATGCTTACAATCTACCAAGAGTTAAAGACTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018490 unedited
 NGTCTTTTCCCGCCGTTGCCGCATTGGGCGGTAGGCGGTACGGTGGGAGGTCTATATA
 AGCAGAGCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCG
 CGAATTCGGCACGAGGGGGTGGGAACCAGAGCGTCAACCTAGAAGGAAAAGGAC
 GGAAGAGATTGAGCCGGCTGGGAGACAGCGAGCCAGAGTCTGGGTGTTGTGCGAGA
 GCCACGGCGGGGCTGGGGCAGTGGCCGGCATGGCTGAAGCTGCGCTCTGCAACCTTG
 AAGAGCCGCTGCATTGAGAGCCAGGGACAGGGAGACCGGTGCGATGGCAGAGCGCGGCC
 CCCGCCGCTGCGCCGGCCGGCCGGCTGGCGTGAGCCGCCGAGGAGCGGGGCTGCCTC
 TGCCTGTCATGGAGCAGCGGAAAGGGGAAACTCCGGAGCGCCGCTCCTGCGCCGCT
 GCGGCGGACTGCTGAAGGGGCGAGCCCGCGGACCGCCGAGGAAGAGACCCCGCTCC
 AGCCCGCAGGCCGGCTGCCCGGGGGCGGCGGGGACATCGGAGGGCAGCGGAGCGAGCAG
 CGCCCGGGAGAGGCCGGCGGGAGGCGGCCGAGCAATGCCGGGCCGCTAGGGCTGC
 TCTGCTTCTCGCCCTGNGGCTGCTCGGCTCGGCCGGGCCAGCGGCGCGGCCGCTC
 TCTGCGCGGCCCTGCAGCTGCGACGGCGACCGTGGGTGGACTGCTCCGGGAAGGGG
 TGACNGCCGTGCCGAGGCTCAGCCCTCACCCAGCGTGGTATCAGTATGAACACATT
 ACTCAGTGCCAGAAGATGCATTTAGAACTNCTTTTCTAGAGAGCTACATTGGCGGNCA
 CGACCTTCTTTTATACCAAGGNTTGTCTGGTTGAAGAACTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018490 unedited
 ATGTACCGCGGCACGCAATCTAGTAGTCGGTTTTTTTTTTTTTTTTTTTGGCTTTCTAAAAA
 CTTTAATAAATCAAAACACTGAGTACAATATTGTATTTTCATACCATATAGCACAAAGATT
 AACACTTTTATATATCTGTTATTCTAGTTTTTAAATGAATAAAATGAAAAATTTCAATA
 ACCTGAATTTTGGAAAAACCTTTTAATTAAGAGTTTCTTACCAAGTTATGATTTAATAT
 TTATCAGATGTGTAATATACATGATAGCAATTTTTAAAACCTTGTAAATAGTTGGCCTTA
 CAAAATACAACACACTGGCAAATAAATCCTTCCACATTTTATACAACTACATGATT
 TTGATATACAAAGATTCTGTTTTTATTACACTGACAATGCACAACAAAGACTATTTACAA
 TGCAAAAAGTATATAAACCAATTTAACAGTCTGCTACTGGCAGCCACTATAGTTTAAG
 AGGTAGCTTTATTTAACGAAATGAACAGAAGCCCCATTTCCAACCTTGTGGTCTAAAAA
 TAATTTACATAAGATAAAAAATTCATTATATGCACAGTATGCTCAGTCTATCATTAACCC
 GAATCCAGCTGGCATTTTTTATTTTTCCAGATTACCTAATATGGCGCTCGGGCTTCTCT
 TGTCTTAACCACTGCTCAAAAACTTTTCGACACTTTTACTTTTAGAATCTACCCATTA
 TTAGTTCCAAAGCCCATACCGGAACTCAGCACACCTCCTATTTTTTAAACCCAAAGAC
 CAACCCGCACACCTCCTACTCCTTTGTATTAACAACCTTTTTTACCTGTGAACCCAAACT
 CACCCGAGACCTTTGATTGGCCCTCCTCCATAAAATCTCGGAAACATCTGGCAAT
 TCCCTTCTTCTCTCGTGCATTATTTCCCTTCTAATAACTCCGGAGCCTACGCCGCT
 TAACACTCCCC

Restriction Sites:

NotI-NotI

ACCN:

NM_018490

Insert Size:

5400 bp

OTI Disclaimer: 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.

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](#)

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_018490.1](#), [NP_060960.1](#)

RefSeq Size: 5211 bp

RefSeq ORF: 2856 bp

Locus ID: 55366

UniProt ID: [Q9BXB1](#)

Cytogenetics: 11p14.1

Domains: 7tm_1, LRRNT, LRR, LRR_TYP, LRR_BAC, LRR_PS

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: The protein encoded by this gene is a G-protein coupled receptor that binds R-spondins and activates the Wnt signaling pathway. This Wnt signaling pathway activation is necessary for proper development of many organs of the body. [provided by RefSeq, Oct 2016]
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).