

Product datasheet for **RG221345**

GPR48 (LGR4) (NM_018490) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR48 (LGR4) (NM_018490) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR48
Synonyms:	BNMD17; GPR48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221345 representing NM_018490
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGGGCCGCTAGGGCTGCTCTGCTTCTCGCCCTGGGGCTGCTCGGCTCGGCCGGGCCAGCGGCC
 CGGCGCCGCTCTCTGCGCGGCCCTGCAGCTGCGACGCGACCGTCCGGTGGACTGCTCCGGGAAGGG
 GCTGACGGCCGTGCCGAGGGGCTCAGCGCCTTACCCAAAGCGCTGGATATCAGTATGAACAACATTACT
 CAGTTGCCAGAAGATGCATTTAAGAACTTTCCTTTTCTAGAAGAGCTACAATTGGCGGGCAACGACCTTT
 CTTTTATCCACCAAAGGCCTTGTCTGGGTTGAAAGAACTCAAAGTTCTAACGCTCCAGAATAATCAGTT
 GAAAACAGTACCCAGTGAAGCCATTGAGGGCTGAGTGTTCAGTCTTTCGCTTTAGATGCCAACCAT
 ATTACCTCAGTCCCCGAGGACAGTTTTGAAGGACTTGTTCAGTACGGCATCTGTGGCTGGATGACAACA
 GCTTGACGGAGGTGCCTGTGACCCCTCAGCAATCTGCCACCCTACAGGCGCTGACCCTGGCTCTCAA
 CAAGATCTCAAGCATCCCTGACTTTCATTACCAACCTTCAAGCCTGGTAGTTCTGCATCTTCATAAC
 AATAAAATTAGAAGCCTGAGTCAACACTGTTTTGATGGACTAGATAACCTGGAGACCTTAGACTTGAATT
 ATAATAACTTGGGGGAATTTCTCAGGCTATTAAGCCCTTCTAGCCTTAAAGAGCTAGGATTTATAG
 TAATTCTATTTCTGTTATCCCTGATGGAGCATTGATGGTAATCCACTCTTAAGAATAACATTTGAT
 GATAATCTCTGTCTTTGTGGGAACTCAGCATTTCACAATTTATCTGATCTTCATTCCCTAGTCATTC
 GTGGTGAAGCATGGTGCAGCAGTTCACCAATCTTACAGGAAGTCCACCTGAAAAGTCTGACTTTGAC
 AGGTACAAAGATAAGCAGCATACCTAATAATTTGTGTCAAGAACAAAAGATGCTTAGGACTTTGGACTTG
 TCTTACAATAATAAGAGACCTTCCAAGTTTAAATGGTTGCCATGCTCTGGAAGAAATTTCTTTACAGC
 GTAATCAATCTACCAAATAAGGAAGGCACCTTCAAGCCTGATATCTCTAAGGATTTCTAGCTGAG
 TAGAAAACCTGATACATGAAATTCACAGTAGAGCTTTTGCCACACTTGGGCAATAACTAACCTAGATGTA
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 TTATCAGTGTGTGCATTTTGGGTTGTGACTCTTATGCAAATTTAAACACAGAAGATAACAGCCTCCAG
 GACCACAGTGTGGCACAGGAGAAAGTACTGCTGATGCAGCAAATGTACAAGCACTCTTGAAAATGAAG
 AACATAGTCAAATAATTATCCATTGTACACCTCAACAGGTGCTTTTAAAGCCTGTGAATATTTACTGGG
 AAGCTGGATGATTCGTCTACTGTGTGGTTCATTTTCTGGTTGCATTATTTTCAACCTGCTTGTATT
 TTAACAACATTTGCATCTGTACATCACTGCCTTCGTCAAATTTGTTTATAGGCTTGATTCTGTGTCTA
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 ATTTGGCATTGGTGGGAACTGGCAGTGGCTGCAAAGTAGCTGGGTTTCTTGCAGTTTTCTCTCAGAA
 AGTGCCATATTTTTATTAATGCTAGCAACTGTCGAAAAGAAGCTTATCTGCAAAGATATAATGAAAAATG
 GGAAGAGCAATCATCTCAAACAGTTCGGGTTGCTGCCCTTTTGGCTTCTCAGGTGCTACAGTAGCAGG
 CTGTTTTCCCCTTTCCATAGAGGGGAATTTCTGCATCACCCCTTTGTTTGCATTTCTACAGGTGAA
 ACGCCATCATTAGGATTCAGTGAACGTTAGTGCTATTAAGTCACTAGCATTATTTAATGGCCGTTA
 TCTACACTAAGCTATACTGCAACTTGAAAAAGAGGACCTCTCAGAAAACCTACAATCTAGCATGATTAA
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 TTGATCACTGCAATCTCTATCAGCCCCGAAATAATGAAGTCTGTTACTCTGATATTTTTCCATTGCCCTG
 CTTGCCTGAATCCAGTCTGTATGTTTTCTCAACCCAAAGTTTAAAGAAGACTGGAAGTACTGAAGCG
 ACGTGTTACCAAGAAAAGTGGATCAGTTTCAGTTTCCATCAGTAGCCAAGGTGGTTGTCTGGAACAGGAT
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 TTCTTTTAAACAAAGCCAGTATCATGCAAACTTGATAAAATCACACAGTGTCTGCATTGGCAGTGGC
 TTCTTGCCAAAGACCTGAGGGCTACTGGTCCGACTGTGGCACACAGTCGGCCACTCTGATTATGCAGAT
 GAAGAAGATTCCTTTGTCTCAGACAGTTCTGACCAGGTGCAGGCCTGTGGACGAGCCTGCTTCTACCAGA
 GTAGAGGATTCCTTTGGTGCCTATGCTTACAATCTACCAAGAGTTAAAGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG221345 representing NM_018490
Red=Cloning site Green=Tags(s)

MPGPLGLLCFLALGLLGSAGPSGAAPPLCAAPCSCDGRDVCVSGKGLTAVPEGLSAFTQALDISMNNIT
 QLPEDAFKNFPFLEELQLAGNDLSFIHPKALSGLKELKVLTLQNNQLKTPVSEAIRGLSALQSLRLDANH
 ITSVPEDSFEGLVQLRHLWLDNSLTEVPVHPLSNLPTLQALTLALNKISSIPDFAFTNLSSLVVLHLHN
 NKIRLSQHCDFGLDNLETLDLNYYNLGEFPQAIAKALPSLKEGFGHSNSISVIPDGAFDGNPLLRTHLY
 DNPLSFVGNFAFHNLSDLHSLVIRGASMVQQFPNLTGTVHLESLLTGTGISSIPNNLCQEQLRDL
 SYNNIRDLPSFNGCHALEEISLQRNQIYQIKEGTFQGLISLRILDLRNLIHEIHSRAFATLGPITNLDV
 SFNELTSFPTEGLNGLNQLKLVGNFKLKEALAAKDFVNLRSLSVPYAYQCCAFWGCDSYANLNTEDNSLQ
 DHSVAQEKGTAANVTSTLENEEHSQIIHCTPSTGAFKPEYLLGSMIRLTVWFIFLVALFFNLLVI
 LTTFASCTSLPSSKLFIGLISVSNLFGIYTGILTFLDVSWGRFAEFGIWWETGSGCKVAGFLAVFSSE
 SAIFLLMLATVERSLSAKDIMKNGKSNHLKQFRVAALLAFLGATVAGCFPLFHRGEYSASPLCLPFTGE
 TPSLGFVTVLVLLNSLAFLLMAVIYTKLYCNLEKEDLSENSQSSMIKHVAWLIFTNCIFFCPVAFFSFAP
 LITAISISPEIMKSVTLIFFPLPACLNPVLYVFFNPKFKEDWKLKRRVTKKSGSVSVSISQGGCLEQD
 FYYDCGMYSHLQGNLTVCCCESFLLTKPVSKHLIKSHSCPALAVASCQRPEGYWSDCGTQSAHSDYAD
 EEDSFVSDSSDQVQACGRACFYQSRGFPLVRYAYNLPRVKD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

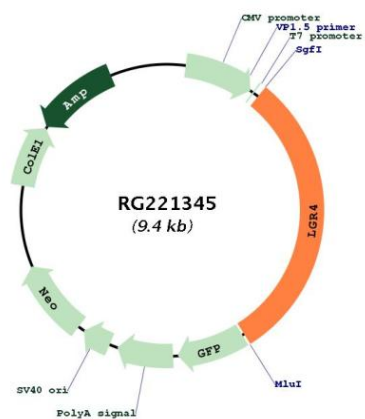


ACCN: NM_018490

ORF Size: 2853 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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_018490.4
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]

Product images:



Circular map for RG221345