

Product datasheet for **SC117852**

LGR5 (NM_003667) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGR5 (NM_003667) Human Untagged Clone
Tag:	Tag Free
Symbol:	LGR5
Synonyms:	FEX; GPR49; GPR67; GRP49; HG38
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 SC117852 sequence for NM_003667 edited (data generated by NextGen Sequencing)

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ATGGACACCTCCCGGCTCGGTGTGCTCCTGTCCTTGCCTGTGCTGCTGCAGCTGGCGACC
GGGGCAGCTCTCCAGGTCTGGTGTGTTGCTGAGGGGCTGCCCCACACTGTCAATTGC
GAGCCCGACGGCAGGATGTTGCTCAGGGTGGACTGCTCCGACCTGGGGCTCTCGGAGCTG
CCTTCCAACCTCAGCGTCTTACCTCCTACCTAGACCTCAGTATGAACAACATCAGTCAG
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Clone variation with respect to NM_003667.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003667 unedited
 NATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGATGCTGCTCCACACC
 GCTCAGGCCGCGAGCAGCAGCAAGGCGCACCGCCACTGTCCGCGCTGCAGCCAGGGCTGC
 TCCGAAGGCCGGCGTGGCGGCAACCGGCACCTCTGTCCCCGCCGCGTTCTCCTCGCCGC
 CCACGCCGTGGGGTCAGGAACCGCGGCTCTGGCGCTGCAGACGCCCGTGAGTTGCAGAA
 GCCACGGAGCGGCGCCCGCGGCCACGGCCCGTAGCAGTCCGGTGTCTCTCCGCC
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 TACCTAGACCTCAGTATGAACAACATCAGTCAGCTGCTCCGAATCCCCTGCCAGTCTC
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 TTCCTGGCCTTTACAGTCTTAAAGTTCTTATGCTGCAGAATAATCAGCTAAGACACGTA
 CCCACAGAAGCTCTGCAGAAATTTGCGAAGCCTTCAATCCTGCGTCTGGATGCTAACCCAT
 CAGCTATGTGCCCAAGCTGGTTTCAGTGGCCTGCATTCTGAGGCACCTGTGCCTGGAT
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003667 unedited
 ATGGACCGCGGCACGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTAAATAGTCACAC
 ATTTTATTACAAATTTATTTTTTACCCAATAGAAAAGCAAATTTGGAATCTATTTACAAG
 TACTATATATTTACATATATACAGTTAATGAATTTAAAGAAAATGGGCAGAGAAACACAT
 TATAAATCAAAGAATATGCCACTGTACAAGGTTTATTATCATTATCATGGTCCTTAATGT
 TACTGAACCTTTACTATAGTAATAAATACAGTTCTATATTTACACATCTTATAAAACATC
 TCATAAATGTATTTTTTCAAATCCAAGTTAAAACATCTGATCAAAAATAAACATGCTTATA
 TAAAAATAAATCTACCTAACAGCCATTTGGTTTGGATGTATTGAAGCTAATATAGGATAA
 TAGAAGGTAAGAATTAATACTTTGACTTTTCTTATTTAATAAAGTTGCTTCTTAAATACC
 TAACACAGTATTAATATGGAATAAGCAGAGAAGTAATGTTCTAACATCAAGTGGGTTAT
 CCAGAGAGAACACAGCTAAAACCAAGCTAAATAAACAGGATAATACGTTACTGAGTCTCT
 TGAGTCCAAAGTGGTGTGAGATATTGGGTTTCCAGAGCTACTAGAGATACATGTGTAAG
 AAGTTGTATCAGTGGACTTAATTTATGTAATGTGCACATTTGATCATTAAAGATGCACAT
 AGTTTGAATCAACTGATAAAACTTATTGCAAAAATTTCTTTACTAACCAGAAAAAATCC
 CAGATTGCTTACTTTNNCTTTTCAGGTATGTCATTGCTGGCAGTAGGAATTCCCTTCTGA
 GCTTTGCGNACAGGAGTTAAAANNCAATCAGATAGACATACGTCACCTGTGCATGAA
 TGCCTTANNNTACATTAAGAATTTGGCCAGTTTTTCTCCAAATACTGNAGCAGTTTTTA
 CCCATGAGGGTGGAAACCCTAGGGCTGAACATAAACCTGGTATCCCTAAAATGACN

Restriction Sites:

NotI-NotI

ACCN:

NM_003667

Insert Size:

2724 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:

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_003667.2](#), [NP_003658.1](#)

RefSeq Size: 2880 bp

RefSeq ORF: 2724 bp

Locus ID: 8549

UniProt ID: [O75473](#)

Cytogenetics: 12q21.1

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

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: The protein encoded by this gene is a leucine-rich repeat-containing receptor (LGR) and member of the G protein-coupled, 7-transmembrane receptor (GPCR) superfamily. The encoded protein is a receptor for R-spondins and is involved in the canonical Wnt signaling pathway. This protein plays a role in the formation and maintenance of adult intestinal stem cells during postembryonic development. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). 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.