

## Product datasheet for **SC337624**

### LGR5 (NM\_001277226) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LGR5 (NM_001277226) Human Untagged Clone
Tag:	Tag Free
Symbol:	LGR5
Synonyms:	FEX; GPR49; GPR67; GRP49; HG38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001277226, the custom clone sequence may differ by one or more nucleotides

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ATGGACACCTCCCGCTCGGTGTGCTCCTGTGCTGCTGCAGCTGGCGACCGGGGCGAGCT
CTCCCAGGTCTGGTGTGTTGCTGAGGGGCTGCCCCACACACTGTCATTGCGAGCCCACGCGAGGATGTT
GCTCAGGGTGGACTGCTCCGACCTGGGGCTCTCGGAGCTGCCTTCCAACCTCAGCGTCTTACCTCCTAC
CTAGACCTCAGTATGAACAACATCAGTCAGCTGCTCCCGAATCCCCTGCCAGTCTCCGCTTCTGGAGG
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CAATCCCTGCGTCTGGATGCTAACCACATCAGCTATGTGCCCAAGCTGTTTCAGTGGCCTGCATTCCC
TGAGGCACCTGTGGCTGGATGACAATGCGTTAACAGAAATCCCCGTCCAGGCTTTTAGAAGTTTATCGGC
ATTGCAAGCCATGACCTTGGCCCTGAACAAAATACACCACATACCAGACTATGCCTTTGAAACCTCTCC
AGCTTGGTAGTTCTACATCTCCATAACAATAGAATCCACTCCCTGGGAAAGAAATGCTTTGATGGGCTCC
ACAGCCTAGAGACTTTAGATTTAAATTACAATAACCTTGATGAATCCCCACTGCAATTAGGACACTCTC
CAACCTTAAAGAACTACATTTCTATGACAATCCCATCCAGTTTGTGGGAGATCTGCTTTTCAACATTTA
CCTGAACCTAAGAACACTGACTCTGAATGGTGCCTCACAATAAAGTGAATTTCTGATTTAACTGGAAGT
CAAACCTGGAGAGTCTGACTTTAACTGGAGCACAGATCTCATCTTCTCAAACCGTCTGCAATCAGTT
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GCCACTCCCTAATAAGCTGGACCTATCGTCCAACCTCCTGTGCTTTTCTATAACTGGGTTACATGTT
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CAGTGCAGTGTTACCTTCCCCAGGCCCTTCAAACCTGTGAACACCTGCTTGTGGCTGGCTGATCAG
AATTGGAGTGTGGACCATAGCAGTTCTGGCACTTACTTGAATGCTTTGGTACTTCAACAGTTTTCAGA
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TCTCCAGTGCCGTGCTGGCTGGTGTGGATGCGTCACTTTTGGCAGCTTGCACGACATGGTGCCTGGT
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TTTCTAGCCTGAAAGTAATCATTTTGTCTGTGCCCTGCTGGCCTTGACCATGGCCGAGTTCCCCTGCT
GGGTGGCAGCAAGTATGGCGCCTCCCCTCTGCTGCTGCCTTTGCCTTTTGGGGAGCCAGCACCATGGGC
TACATGGTCGCTCTCATCTTGTCAATTCCTTTGCTTCTCATGATGACCATTGCCTACACCAAGCTCT
ACTGCAATTTGGACAAGGGAGACCTGGAGAATATTTGGGACTGCTCTATGGTAAAACACATTGCCCTGTT
GCTCTTACCAACTGCATCCTAACTGCCCTGTGGCTTCTTGTCTTCTCCTCTTAATAAACCTTACA
TTCTCTACATCTTGTTCATCCTCACTTTAAGGAGGATCTGGTGAAGCTGAGAAAACACACCTACGTCG
GACAAGATCAAAAACACCAAGCTTGATGCAATTAACCTGATGATGTCGAAAAACAGTCTGTGACTCA
ACTCAAGCCTTGGTAACCTTTACCAGCTCCAGCATCACTTATGACCTGCCTCCAGTTCCGTGCCATCAC
CAGCTTATCCAGTACTGAGAGCTGCCATCTTCTCTGTGGCATTGTGCCATGTCTCTAA
    
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**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001277226

**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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001277226.1</a></u> , <u><a href="#">NP_001264155.1</a></u>
<b>RefSeq Size:</b>	4553 bp
<b>RefSeq ORF:</b>	2652 bp
<b>Locus ID:</b>	8549
<b>UniProt ID:</b>	<u><a href="#">O75473</a></u>
<b>Cytogenetics:</b>	12q21.1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p> <p>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.</p>