

# Product datasheet for TG311747

## LGR5 Human shRNA Plasmid Kit (Locus ID 8549)

## **Product data:**

#### OriGene Technologies, Inc.

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Product Type:shRNA PlasmidsProduct Name:GR5 Human shRNA Plasmid Kit (Locus ID 8549)Locus ID:8549Synonyms:FX: GPR49: GR67: GRP49: HG38Vector:pGFP-V-R5 (TR30007)E. coli Selection:KananycinMammalian CellVerovinal plasmidsSelection:Retroviral plasmidsFormat:Retroviral plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.RefSeq:NM 001277226, NM 001277227, NM 003667, J, NM 003667, J, NM 003667, J, NM 003667, J, NM 001277226, MM 001277226, MM 003667, J, SUP 003667, J, SUP 001277226, MM 001277227, NM 003667, J, SUP 003667, J, SUP 001277226, MM 001277227, NM 003667, J, SUP 003667, J, SUP 001277226, MM 001277227, NM 003667, J, SUP 003667, J, SUP 001277226, MM 001277227, NM 003667, J, SUP 003667, J, SUP 001277226, MM 001277226, MM 001277226, MM 003667, J, SUP 003667, J, SUP 003667, J, SUP 001277226, MM 001277227, NM 003667, J, SUP 003667, J, SUP 003667, J, SUP 001277226, MM 001277227, NM 001277226, J, BC 003652, BC 003652, BC 003650, MM 001277227, NM 001277226, J, BC 003652, J, SUP 003667, J, SUP 001277226, J, SUP 003667, J, SUP 003667, J, SUP 003667, J, SUP 001277226, MM 001277227, NM 001277227, NM 003667, J, SUP 003667, J, SUP 003667, J, SUP 00127726,		
Locus ID:8549Synonyms:FEX; GPR49; GPR67; GRP49; HG38Vector:pGFP-V-RS (TR30007)E. coli Selection:KanamycinMammalian CellPuromycinSelection:Retroviral plasmidsComponents:LGR5 - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 8549). Syg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.RefSeq:M. 001277226, NM 001277227, NM 003667, NR 110596, NM 003667,1, NM 003667,2, NM 0013667,3, NM 001277227,1, NM 001277227,2, NM 003667,4UniProt ID:075473Summary: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 is oforms have been found for this gene. [provided by RefSeq, Sep 2015]shRNA Design:These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com	Product Type:	shRNA Plasmids
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### **GRIGENE** LGR5 Human shRNA Plasmid Kit (Locus ID 8549) – TG311747

Performance Guaranteed: OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

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