

Product datasheet for **RR202738L4V**

Lgr5 (NM_001106784) Rat Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Lgr5 (NM_001106784) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Lgr5
Synonyms:	Gpr49
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001106784
ORF Size:	2721 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR202738).
OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_001106784.1 , NP_001100254.1
RefSeq Size:	3130 bp
RefSeq ORF:	2724 bp
Locus ID:	299802
UniProt ID:	D4AC13
Cytogenetics:	7q22



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Gene Summary:

Receptor for R-spondins that potentiates the canonical Wnt signaling pathway and acts as a stem cell marker of the intestinal epithelium and the hair follicle. Upon binding to R-spondins (RSPO1, RSPO2, RSPO3 or RSPO4), associates with phosphorylated LRP6 and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical Wnt signaling pathway to increase expression of target genes. In contrast to classical G-protein coupled receptors, does not activate heterotrimeric G-proteins to transduce the signal. Involved in the development and/or maintenance of the adult intestinal stem cells during postembryonic development (By similarity).[UniProtKB/Swiss-Prot Function]