

Specifications:

Gene:	mLgr5
Accession:	NP_034325
Insert size:	2737bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

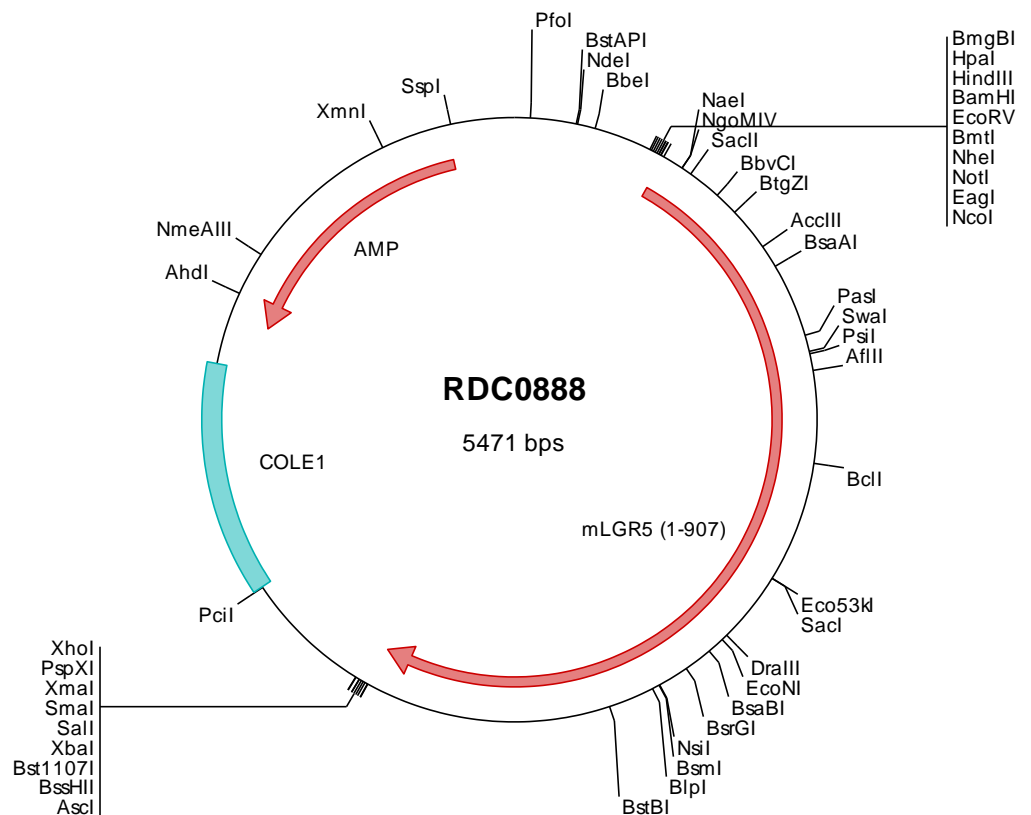
mLGR5 cDNA Plasmid

Lgr5 leucine rich repeat containing G protein coupled receptor 5 [*Mus musculus* (house mouse)]

Also known as: FEX; Gpr49

Summary:

LGR5 is a member of the G protein-coupled receptor 1 family and is the receptor for R-spondins that mediate the potentiation of Wnt/ β -catenin signaling by enhancing Wnt-induced LRP6 phosphorylation. This receptor is expressed in the gonads, the adrenal gland, and in the brain. LGR5 acts as a stem cell marker of the intestinal epithelium and the hair follicle. Increased expression of LGR5 has been linked to ovarian, colon and hepatocellular cancers.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0888 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtea cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcagggcgcg tcagcgggtg ttggcgggtg tetggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301 taagccagct ggcgaaaagg ggatgtgctg caaggcgatt aagtgggta acgcccgggt ttcccgatc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcct ggatccgata tetgtagcgc ggcgcgccacc atggacacct cctgcgtcca catgtcctcg tctttgttgg cgtcgtgca
501 gttgtgtgacc gacgcaagct cacccggacc agatgcgata ccgcggggct gcccatcaca ctgtcaactgt gagctggatg ccaaggatgct gctcagggtg
601 gactgctcgg acctggggct ctgggagctg cctcccaacc toagcgtctt cacctctac ctggacctca gtatgaacaa catcagtoag ctaccgcga
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901 agtcaagtgc caccagctg tttcagcggc ctgcactccc tgaggcaact gtggctagat gacaatgctc toacagacgt cctgtccag gctttcagaa
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1101 cattaataat agaattcaact ccttgggaaa gaaatgcttt gatggactcc acagcctgga gactttagat ttaaattata ataacctgga tgaattcccc
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1901 ggtgtgagaa tgtctataaa atttctaacc aatggaataa agacgacggc aacagtgtgg acgacctca taagaagac gctgggttat tcaagtcca
2001 agatgagcgg gacottggaag atttctact tgactttgag gaagacctga agcccctca cctgggtcag tgctctcttc cccaggtctc cttoagccc
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> RDC0888 Translated Insert Sequence

1 mdtscvhm11 silallqlva agssppgdai prgcpshchc eldgrmllrv dcsdlglsel psnlsvftsy ldlsmnisq lpassllhrlc fleelrlagn
101 althipkgaf tglhslkvlm lqnnqlrgvp eealqnlrsl qslrldanhi syvppscfsg lhlrlhlwld dnaltdvvpq afrslsalqa mtlalnkih
201 iadyafgnls slvvlhlhnn rihslgkckf dglhslletld lnylnldefp taiktlnlk elgfhsnnir siperafvgn psllitihfyd npiqfvgsa
301 fqhlpeirlt lmgashite fphltgtatl esltltgaki sslpavcdq lplnqlvldls ynllledlpsl sgcqklqkid lrhneiyeik gstfqqlfnl
401 rsnlnawnki aiihpnafst lpslikldls snlssfpvt glhglthkl tgnralqsl psanfpeki iempsayqcc afggcenyk isngwnkddg
501 nsvddlhkcd aglfqvqder dledflldfe edlkalhsvq cspspgpfkp cehlfgswli rigvwttavl alsncalval tvfrtplyis siklligvia
601 vvdilmgvss avlaavdaft fgrfaqhgaw wedgicqiv gflsifases siflltlaal ergfsvkoss kfevkaplfs lraivllcvl laltiatipl
701 lgskynasp lclplpfep sttgmvalv llnsloflim tiaytklycs lekelenlw dcsmvkhial llfancilyc pvafslfssl lntfispdv
801 ikfillvivp lpsclnply ivfnphfkd mgslgkhrf wmrskhasll sinsddvekr scestqalvs fthasiaydl pstsgaspay pmteschlss
901 vafvpc1