

Product datasheet for **MG219702**

Lgr5 (NM_010195) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lgr5 (NM_010195) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lgr5
Synonyms:	FEX; Gpr; Gpr49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG219702 representing NM_010195
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACACCTCCTGCGTCCACATGCTCCTGTCTTGTCTGGCGCTGCTGCAGTTGGTGGCCGCCGGCAGCT
 CACCGGGACCAGATGCGATACCGCGGGGCTGCCCATCACACTGTCACTGTGAGCTGGATGGCAGGATGCT
 GCTCAGGGTGGACTGCTCGGACCTGGGGCTCTCGGAGCTGCCCTCCAACCTCAGCGTCTTACCTCTAC
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

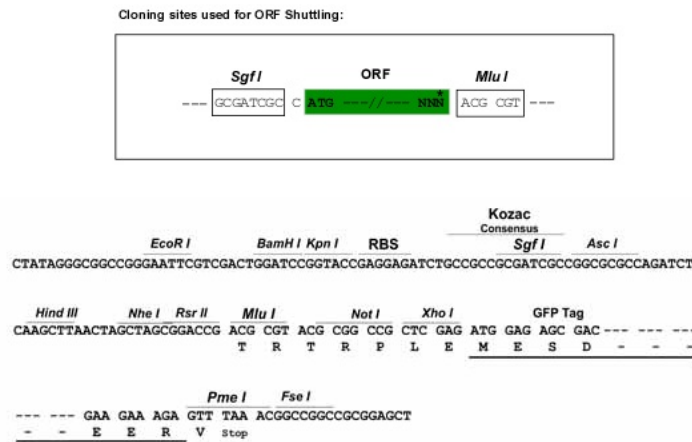
Protein Sequence: >MG219702 representing NM_010195
 Red=Cloning site Green=Tags(s)

MDTSCVHMLLSLLALLQLVAAGSSPGPDAIPRGCP SHCHCELDGRMLLRVDCSDLGLSELPSNLSVF TSY
 LDLSMNNISQLPASLLHRLCFLEELRLAGNALTHIPKGAF TGLHSLKVLMLQNNQLRQVPEEALQNL RSL
 QSLRLDANHISYVPPSCFSGLHSLRHLWLDNALT DVPVQAFRSLSALQAMTLALNKIHHIADYAFGNLS
 SLVVLHLHNNRIHSLGKKCFDGLHSLLETLDLNYNNLDEFPTAIK TLSNLKELGFHSNNIRSIPE RAFVGN
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 LPNLQVLDLSYNLLEDLPSLSGCQKLQKIDLRHNEIYEIKGST FQQLFNLRSNLAWNKIAIIHPN AFT
 LPSLIKLDLSSNLLSSFPVTGLHGLTHLKL TGNRALQSLIPSANFPELKIIE MPSAYQCCAFGGCEN VYK
 ISNQWNKDDGNSVDDLHKK DAGLFQVQDERDLEDFLLDFEEDL KALHSVQCSPSPGPFKPC EHLFGSWLI
 RIGVWTTAVLALSCNALVALTVFRTPLYISSIKLLIGVIAVVD ILMGVSSAVLA AVDAFTFGRFAQH GAW
 WEDGIGCQIVGFLSIFASESSIFLLTLAALERGF SVKCSSKFEVKAPL FSLRAIVLLCVLLAL TIAT IPL
 LGGSKYNASPLCLPLPFGE PSTTGVMVALVLLNSLCFLIM TIAYTKLYCSLEKGELENL WDCSMVKHIAL
 LLFANCILYCPVAFLSFSLLNLT FISPVDVIK FILLVIVPLPSCLN PLLYIVFNPHFKEDMGSLGKHTRF
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TRTRPLE - GFP Tag - V

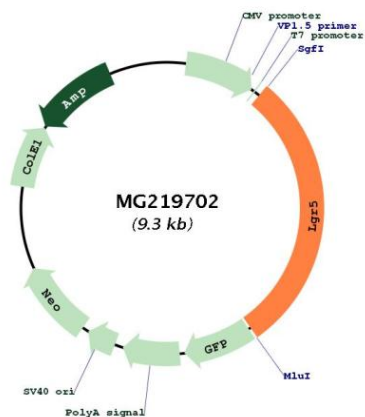
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_010195
ORF Size:	2721 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none"> 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_010195.2 , NP_034325.2
RefSeq Size:	4711 bp
RefSeq ORF:	2724 bp
Locus ID:	14160
UniProt ID:	Q9Z1P4
Cytogenetics:	10 D2
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. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MG219702