

Product datasheet for **SC112908**

LGR7 (RXFP1) (NM_021634) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGR7 (RXFP1) (NM_021634) Human Untagged Clone
Tag:	Tag Free
Symbol:	LGR7
Synonyms:	LGR7; RXFPR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_021634, the custom clone sequence may differ by one or more nucleotides

```
ATGACATCTGGTTCTGTCTTCTTCTACATCTTAATTTTTGGAAAATATTTTCTCATGGGGTGGACAGG
ATGTCAAGTGCTCCCTTGCTATTTCCCTGTGGGAACATCACAAAGTGCTTGCCTCAGCTCCTGCACTG
TAACGGTGTGGACGACTGCGGGAATCAGGCCGATGAGGACAACCTGTGGAGACAACAATGGATGGTCTCTG
CAATTTGACAAAATATTTTGCCAGTTACTACAAAATGACTTCCCAATATCCTTTTGAGGCAGAAACACCTG
AATGTTTTGGTCGGTTCTGTGCCAGTGCAATGTCTTTGCCAAGGTCTGGAGCTTACTGTGATGAAACCAA
TTTACGAGCTGTTCCATCGGTTTCTTCAAATGTGACTGCAATGTCACTTCAGTGGAACTTAATAAGAAAG
CTTCTCCTGATTGCTTCAAGAATTATCATGATCTTCAGAAGCTGTACCTGCAAAAACAATAAGATTACAT
CCATCTCCATCTATGCTTTCAGAGGACTGAATAGCCTTACTAACTGTATCTCAGTCATAACAGAATAAC
CTTCTGAAGCCGGGTGTTTTGAAGATCTTACAGACTAGAATGGCTGATAATTGAAGATAATCACCTC
AGTCGAATTTCCCAACCAACATTTTATGGACTAAATTCTTATTCTTCTAGTCTGATGAATAACGTCC
TCACCCGTTTACCTGATAAACCTCTCTGTCAACACATGCCAAGACTACATTGGCTGGACCTTGAAGGCAA
CCATATCCATAATTTAAGAAATTTGACTTTTATTTCTGCAAGTAACTGTTTTAGTGATGAGGAAA
AACAAAATTAATCACTTAAATGAAAATACTTTTGACCTCTCCAGAACTGGATGAATTGGATTTAGGAA
GTAATAAGATTGAAAATCTTCCACCGCTTATTTCAAGGACCTGAAGGAGCTGTCACAATTGAATCTTTC
CTATAATCCAATCCAGAAAATCAAGCAAACCAATTTGATTATCTTGTCAAACCTCAAGTCTCTCAGCCTA
GAAGGGATTGAAATTTCAAATATCCAACAAAGGATGTTTAGACCTCTTATGAATCTCTCACATATATT
TTAAGAAATCCAGTACTGTGGGATGCACCACATGTTCCGAGCTGTAACCAAACTGATGGAATTTCT
ATCTCTAGAGAATCTCTGGCAAGCATTATTCAGAGAGTATTTGTCTGGGTTGTATCTGCAGTTACCTGC
TTTGAAACATTTTTGTCATTTGCATGCGACCTTATATCAGGTCTGAGAACAAGCTGTATGCCATGTCAA
TCATTTCTCTGCTGTGCCGACTGCTTAATGGGAATATATTTATTCGTGATCGGAGGCTTTGACCTAAA
GTTTCGTGGAGAATAACAATAAGCATGCGCAGCTGTGGATGGAGAGTACTATTGTGAGCTTGTAGGATCT
TTGGCCATTCTGTCCACAGAAGTATCAGTTTTACTGTTAACATTTCTGACATTGGAAAAATACATCTGCA
TTGTCTATCCTTTTAGATGTGTGAGACCTGGAAAATGCAGAACAATTACAGTTCTGATTCTCATTGGAT
TACTGGTTTTATAGTGGCTTTCATTCCATTGAGCAATAAGGAATTTTTCAAAAACACTATGGCACCAAT
GGAGTATGCTTCCCTCTTCAATCAGAAGATACAGAAAGTATTGGAGCCCAGATTTATTAGTGGCAATTT
TTCTTGGTATTAATTTGGCCGATTTATCATCATAGTTTTTTCTATGGAAGCATGTTTTATAGTGTCA
TCAAAGTGCCATAACAGCAACTGAAATACGGAATCAAGTTAAAAAAGAGATGATCCTTGCCAAACGTTTT
TTCTTTATAGTATTTACTGATGCATTATGCTGGATACCCATTTTGTAGTGAAATTTCTTTCACTGCTTC
AGGTAGAAATACCAGGTACCATAACCTCTTGGGTAGTGATTTTTATTCTGCCATTAACAGTGCTTTGAA
CCCAATTTCTATACTCTGACCACAAGACCATTTAAAGAAATGATTCATCGGTTTTGGTATAACTACAGA
CAAAGAAAATCTATGGACAGCAAAGGTCAGAAAACATATGCTCCATCATTATCTGGGTGGAAATGTGGC
CACTGCAGGAGATGCCACCTGAGTTAATGAAGCCGACCTTTTCACATACCCCTGTGAAATGTCAGTGT
TTCTCAATCAACGAGACTCAATTCCTATTATGA
```

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021634 unedited
 GGTGCACATATTTGTATACGAACTCACTATAGGGCGGCCGGAATTCGCACGAGGACCAA
 NACCAAATTTTGGCTCACTTTTCATTAATCAGTTGCTCAGATAGAAGGAAATGACATCTGGT
 TCTGTCTTCTTCTACATCTTAATTTTTGGAAAAATTTTTTCTCATGGGGTGGACAGGAT
 GTCAAGTGCTCCCTTGGCTATTTCCCTGTGGGAACATCACAAGTGCTTGCCTCAGCTC
 CTGCACTGTAACGGTGTGGACGACTGCGGGAATCAGGCCGATGAGGACAACTGTGGAGAC
 AACAAATGATGGTCTCTGCAATTTGACAAATTTTTGCCAGTTACTACAAAATGACTTCC
 CAATATCCTTTTTGAGGCAGAAACACCTGAATGTTTGGTCGGTTCTGTGCCAGTGAATGT
 CTTTGCCAAGGTCTGGAGCTTACTGTGATGAAACCAATTTACGAGCTGTTCCATCGGTT
 TCTTCAAATGTGACTGCAATGTCACTTCAGTGGAACTTAATAAGAAAGCTTCTCCTGAT
 TGCTTCAAGAATTATCATGATCTTCAGAAGCTGTACCTGCAAAACAATAAGATTACATCC
 ATCTCCATCTATGCTTTCAGAGGACTGAATAGCCTTACTAACTGTATCTCAGTCATAAC
 AGAATAACCTTCTGAAGCCGGGTGTTTTGAAGATCTTACAGACTAGAATGGCTGATA
 ATTGAAAGATATCACCTCAGTCGAATTTCCCAACAATTTTATGGACTAAATTCTCTTA
 TTCTCTTAGNCCTGATGAATAACGTCCTCACCCGTTTACCTGATAACCTCTCTGTACAC
 ATGCCCAGACTACATTGGCTGGACCTTGAAGCACCATATCCTAATTNAAGAAATTGACTT
 C

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_021634 unedited
 CCGCGGCACGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTAAATAGTTAAATTTGAGA
 TAATTTATTTTTCAGAACAAATCTATACTATATATTCAATAAGTGCATTATGGTTTGA
 TTCCAGTATTTTGTGTTTCAAACATTTTGGTGTATTTGAAACTATCTGAAAACATTTT
 CTCTCCTGCTTAAAGGTTTACATTATGAAAGCAAAAAATTCTAATAAGTAGAGACTA
 GAGAAGAACAAGTAAAGTTAGTATCTCACGTGCTGGCAGTGCAAAGAGAAAAGTA
 AAGTCATTTCTTGAAGAAAGATTTCTGCTTAAAGTGAATGTGTACATACAGACCTTTC
 CTTCTGAAATTAAGTTCCTGAATCAGTGCATTCCAGCTCTTTTTCTTTAACTGCTTT
 ACTGAGATATTTACACACCATAACATTCACCCATCTAAAGTGGGTGAATTAACCACTT
 AGGTCTGTTCTTAAACAGCACGGTTTGTGAAAAGCCTTTTTGTCTTGGCATCCTTGTT
 GAAAATCAGTTAACTGACAATACAAGGATTTATTTTCCAGGAGTTTCCACTAATGTAATGT
 TTATCCTCATTCTAGTTTTTCTGATCCACTTCTCTGCCGTACTCATACTCTCCTATTCCA
 ATTCCATATGATGATGTTTCATTTAAAGCANAGAGAAAAGTGGGCAGGAAGTGCCAAAAGA
 AGTGTGTTTTGAGTTTCTAGCAAAGCATTTTTTGTAAATAAATATGTTGNGTGGCT
 CTCAGTGTATGGAACTTCAAAGAGAGTAGATGGATTCTTCAAACAGATATATNTTGCAA
 CAGTCAGACATTTCTATGATGCAATCACTGAGTATTCAAACCTTTAACCTTATTTAAAGT
 GCCTATGATCTGCTGAGCCATGACAAGAAGCTCTACTTAACTAGAACGCANAGCN

Restriction Sites:

NotI-NotI

ACCN:

NM_021634

Insert Size:

3460 bp

OTI Disclaimer: 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.

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](#)

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:

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_021634.1](#), [NP_067647.1](#)

RefSeq Size: 3874 bp

RefSeq ORF: 2274 bp

Locus ID: 59350

UniProt ID: [Q9HBX9](#)

Cytogenetics: 4q32.1

Domains: 7tm_1, LRR, ldl_recept_a, LRR_TYP, LRR_SD22, LRR_PS

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: This gene encodes a member of the leucine-rich repeat-containing subgroup of the G protein-coupled 7-transmembrane receptor superfamily. The encoded protein plays a critical role in sperm motility, pregnancy and parturition as a receptor for the protein hormone relaxin. Decreased expression of this gene may play a role in endometriosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

Transcript Variant: This variant (1) encodes isoform 1.