

Product datasheet for **RC233096**

LGR7 (RXFP1) (NM_001253729) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGR7 (RXFP1) (NM_001253729) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RXFP1
Synonyms:	LGR7; RXFPR1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC233096 representing NM_001253729
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACATCTGGTTCTGTCTTCTTCTACATCTTAATTTTTGGAAAAATTTTTCTCATGGGGTGGACAGG
 ATGTCAAGTGCTCCCTTGGCTATTTCCCTGTGGGAACATCACAAAGTGCTTGCCTCAGCTCCTGCACTG
 TAACGGTGTGGACGACTGCGGGAATCAGGCCGATGAGGACAACACTGTGGAGACAACATGGATGGTCTCTG
 CAATTTGACAAAATTTTTGCCAGTTACTACAAAATGACTTCCCAATATCCTTTTGAGGCAGAAAACCTG
 AATGTTTGGTTCGTTCTGTGCCAGTGAATGTCTTTGCCAAGTCTGGAGCTTACTGTGATGAAACCAA
 TTTACGAGCTGTTCCATCGTTTCTTCAAATGTGACTGCAATGCACTTCAGTGGAACTTAATAAGAAAG
 CTTCTCTGATTGCTTCAAGAATTATCATGATCTTCAGAAGCTGTACCTGCAAAAACAATAAGATTACAT
 CCATCTCCATCTATGCTTTCAGAGGACTGAATAGCCTTACTAACTGTATCTCAGTCATAACAGAATAAC
 CTTCTGAAGCCGGGTGTTTTTGAAGATCTTACAGACTAGAATGGCTGATAATTGAAGATAATCACCTC
 AGTCGAATTTCCCAACCAACATTTTATGGACTAAATCTCTTATTCTTATCTTATCTTATCTTATCTTATCTT
 TCACCCGTTTACCTGATAAACCTCTCTGTCAACACATGCCAAGACTACATTGGCTGGACCTTGAAGGCAA
 CCATATCCATAATTTAAGAAATTTGACTTTTATTTCTGACAGTAAATTAAGTGTGTTAGTGATGAGGAAA
 AACAAAATTAATCACTTAAATGAAAATCTTTTGCACCTCTCCAGAACTGGATGAATTCAGCCTAGAAG
 GGATTTGAAATTTCAAATATCCAACAAAGGATGTTTAGACCTCTTATGAATCTCTCTCACATATATTTAA
 GAAATTCAGTACTGTGGTATGCACCACATGTTTCGACGCTGTAACCAAACTGATGGAATTTTATCT
 CTAGAGAATCTCTGGCAAGCATTATTCAGAGAGTATTTGTCTGGGTTGTATCTGCAGTTACCTGCTTTG
 GAAACATTTTTGTCATTTGCATGCGACCTTATATCAGGCTGAGAACAAGCTGTATGCCATGTCAATCAT
 TTCTCTGCTGTGCCGACTGCTTAATGGGAATATATTTATTCGTGATCGGAGGCTTTGACCTAAAGTTT
 CGTGGAGAATAACAATAAGCATGCGCAGCTGTGGATGGAGAGTACTCATTGTGAGCTTGTAGGATCTTTGG
 CCATTCTGTCCACAGAAGTATCAGTTTTACTGTTAACATTTCTGACATTGGAAAAATACATCTGCATTGT
 CTATCCTTTTAGATGTGTGAGACCTGGAAAAATGCAGAACAATTACAGTTCTGATTCTCATTGGATTACT
 GGTTTTATAGTGGCTTTCATTCCATTGAGCAATAAGGAATTTTTCAAAACTACTATGGCACCAATGGAG
 TATGCTCCCTCTTCAATCAGAAGATACAGAAAGTATTGGAGCCAGATTTATTCAGTGGCAATTTTTCT
 TGGTATTAATTTGGCCGATTTATCATCATAGTTTTTTCCTATGGAAGCATGTTTTATAGTGTTCATCAA
 AGTGCCATAACAGCAACTGAAATACGGAATCAAGTTAAAAAGAGATGATCCTTGCCAAACGTTTTTTCT
 TTATAGTATTTACTGATGCATTATGCTGGATACCCATTTTGTAGTGAAATTTCTTTCACTGCTTCAGGT
 AGAAATACCAGGTACCATAACCTCTTGGGTAGTGATTTTTATTCTGCCATTAAACAGTGCTTTGAACCCA
 ATTCTCTATACTGACCACAAGACATTTAAAGAAATGATTCATCGGTTTTGGTATAACTACAGACAAA
 GAAATCTATGGACAGCAAAGGTCAGAAAACATATGCTCCATCATTATCTGGGTGGAAATGTGGCCACT
 GCAGGAGATGCCACCTGAGTTAATGAAGCCGGACCTTTTACATACCCCTGTGAAATGCACTGATTTCT
 CAATCAACGAGACTCAATTCCTATTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233096 representing NM_001253729
 Red=Cloning site Green=Tags(s)

MTSGSVFFYILIFGKYFSHGGGQDVKCSLGYFPCGNITKCLPQLLHCNGVDDCGNQAEDNCGDNNGWSL
 QFDKYFASYKMTSQYPFEAETPECLVGSVPVQCLCQGLELDCDETNLRAVPSVSSNVTAMSLQWNLIRK
 LPPDCFKNYHDLQKLYLQNNKITSISIYAFRGLNSLTKLYLSHNRITFLKPGVFEDLHRLEWLIIEDNHL
 SRI SPPTFYGLNSLILLVLMNNVLRTRLPDKPLCQHMPRLHWLDLEGNHIIHNLRLTFISCSNLTVLVMRK
 NKINHLNENTFAPLQKLDEF SLEGIEISNIQQRMFRLMNL SHIYFKKFQYCGYAPHVRSCKPNTDGISS
 LENLLASIIQRVFWVVS AVTCFNI FVICMRPYIRSENKLYAMSII SLCCADCLMGIYLFVIGGFDLKF
 RGEYNKHAQLWMESTHCQLVGLAILSTEVSVLLL TFLTLEKYICIVYVFRVCRPGKCRITITVLIWIWIT
 GFIVAFIPLSNKEFFKNYYGTNGVCFPLHSEDTESIGAQIYSVAIFLGINLAAFIIVFSYGSMFYSVHQ
 SAITATEIRNQVKEMILAKRFFFIVFTDALCWIPIFVVKFLLSLLQVEIPGTITSWVWVIFILPINSALNP
 ILYTLTTRPFKEMIHRFWYNYRQRKSMDSKGQKTYAPSF IWVEMWPLQEMPELMPDLFTYPCEMSLIS
 QSTRLNSYS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

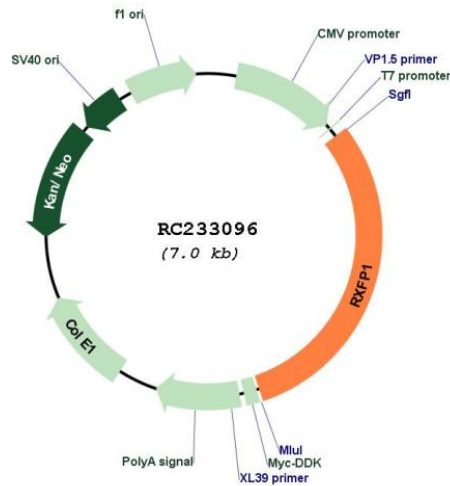
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001253729

ORF Size: 2127 bp

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.

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_001253729.2](#)

RefSeq Size: 3730 bp

RefSeq ORF: 2130 bp

Locus ID:	59350
UniProt ID:	Q9HBX9
Cytogenetics:	4q32.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	81.9 kDa
Gene Summary:	<p>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]</p>