

## Product datasheet for **RC233002**

### **LGR7 (RXFP1) (NM\_001253733) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	LGR7 (RXFP1) (NM_001253733) 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



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**ORF Nucleotide Sequence:**

>RC233002 representing NM\_001253733  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGACCTGCACTCAGAACATGAAGGCAGCCTTGAATCCTTACTTTATCATTCCCGCAATCTGGGGT  
 ACCTGCAAAACAATAAGATTACATCCATCTCCATCTATGCTTTCAGAGGACTGAATAGCCTTACTAACT  
 GTATCTCAGTCATAACAGAATAACCTTCTGAAGCCGGGTGTTTTGAAGATCTTACAGACTAGAAATGG  
 CTGATAATTGAAGATAATCACCTCAGTCGAATTTCCCAACCAACATTTTATGGACTAAATCTCTTATTC  
 TCTTAGTCCTGATGAATAACGTCCTCACCCGTTTACCTGATAAACCTCTCTGTCAACACATGCCAAGACT  
 ACATTGGCTAGTGATGAGGAAAAACAAATTAATCACTTAAATGAAAATACTTTTGCACCTCTCCAGAAA  
 CTGGATGAATTGGATTTAGGAAGTAATAAGATTGAAAATCTTCCACCGCTTATATCAAGGACCTGAAGG  
 AGCTGTCACAATTGAATCTTTCCTATAATCCAATCCAGAAAATCAAGCAAACCAATTTGATTATCTTGT  
 CAAACTCAAGTCTCTCAGCCTAGAAGGGATTGAAATTTCAAATATCCAACAAAGGATGTTTAGACCTCTT  
 ATGAATCTCTCTACATATATTTAAGAAATCCAGTACTGTGGGTATGCCACCATGTTTCGCAGCTGTA  
 AACCAAACTGATGGAATTTTCTCTAGAGAATCTCTTGGCAAGCATTATTCAGAGAGTATTTGTCTG  
 GTTTGTATCTGCAGTTACCTGCTTTGAAAACATTTTGTCAATTCGATGCGACCTTATATCAGGTCTGAG  
 AACAAAGCTGTATGCCATGCAATCATTTCTCTGCTGTGCCGACTGCTTAATGGGAATATATTTATTCG  
 TGATCGGAGGCTTTGACCTAAAGTTTCGTGGAGAATAACAATAAGCATGCCAGCTGTGGATGGAGAGTAC  
 TCATTGTCAGCTTGTAGGATCTTTGGCCATTCTGTCCACAGAAGTATCAGTTTTACTGTTAACATTTCTG  
 ACATTGGAAAAATACATCTGCATTGTCTATCCTTTTAGATGTGTGAGACCTGGAAAATGCAGAACAAATTA  
 CAGTTCTGATTTCTCATTGGATTACTGGTTTTATAGTGGCTTTTCCATTGAGCAATAAGGAATTTTT  
 CAAAACTACTATGGCACCATGGAGTATGCTTCCCTCTTCAATCAGAAGATACAGAAAAGTATTGGAGCC  
 CAGATTTATTCAGTGGCAATTTTTCTTGGTATTAATTTGGCCGATTTATCATCATAGTTTTTCTATG  
 GAAGCATGTTTTATAGTGTTCATCAAAGTGCCATAACAGCAACTGAAATACGGAATCAAGTTAAAAAAGA  
 GATGATCCTTGCCAAACGTTTTTCTTTATAGTATTTACTGATGCATTATGCTGGATACCCATTTTTGTA  
 GTGAAATTTCTTCTACTGCTTCCAGGTAGAAATACCAGGTACCATAACCTCTTGGGTAGTGATTTTTATTC  
 TGCCCATTAACAGTGCTTTGAACCAATTTCTATACTCTGACCACAAGACCATTTAAAGAAATGATTCA  
 TCGTTTTTGGTATAACTACAGACAAAGAAAATCTATGGACAGCAAAGGTCAGAAAACATATGCTCCATCA  
 TTCATCTGGGTGAAATGTGCCACTGCAGGAGATGCCACCTGAGTTAATGAAGCCGGACCTTTTACAT  
 ACCCTGTGAAATGTCAGTATTCTCAATCAACGAGACTCAATTCCTATTCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC233002 representing NM\_001253733  
 Red=Cloning site Green=Tags(s)

MVTCTQNMKAALKSLLYHSRNLGYLQNNKITSISIIYAFRGLNSLTKLYLSHNRITFLKPGVFEDLHRL  
 LEWLIIEDNHLSRISPPTFYGLNSLILLVLMNNVLRPLPKLQHPRLHVLVYMRKNKINHLNENTFAPLQK  
 LDEL DLGSKNIENLPPLIFKDLKELSQLNLSYNPIQKIQANQFDYLVKLSLSLEGIEISNIQQRMRPL  
 MNLSHIYFKKFQYCYAPHVRSCKPNTDGISSLENLLASIIQRFVWVVS AVTCFNIIFVICMPYIRSE  
 NKLYAMSIISLCCADCLMGIYLFVIGGFDLKRGEYNKHAQLWMESTHCQLVGLAAILSTEVSVLLLTFL  
 TLEKYICIVYPPFCVPRGKCRITITVILILWITGFIVAFIPLSNKEFFKNYYGTNGVCFPLHSEDTESIGA  
 QIYSVAIFLGINLAAFIIIVFSYGSFMFYSVHQSATATEIRNQVKKEMILAKRFFFIVFDALCWIPIFV  
 VKFLSLLQVEIPGTITSWVVFILPINSALNPILYTLTTRPFKEMIHFRWYNYRQRKSMDSKGQKTYAPS  
 FIWVEMWPLQEMPELMKPDFLTYPCMSLISQSTRLNSYS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

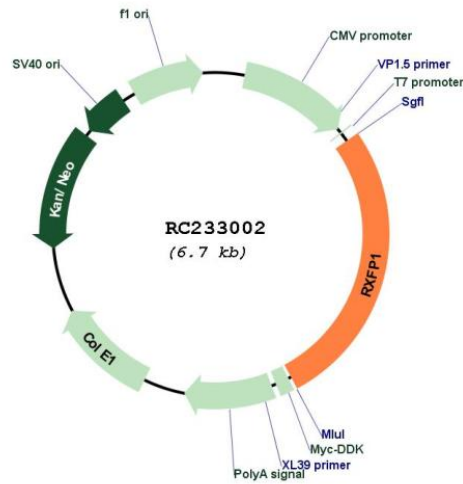
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001253733

ORF Size: 1803 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001253733.1</a> , <a href="#">NP_001240662.1</a>
<b>RefSeq Size:</b>	3886 bp
<b>RefSeq ORF:</b>	1806 bp
<b>Locus ID:</b>	59350
<b>Cytogenetics:</b>	4q32.1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>MW:</b>	70 kDa
<b>Gene Summary:</b>	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]