

Product datasheet for **SC337035**

LGR7 (RXFP1) (NM_001253730) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGR7 (RXFP1) (NM_001253730) Human Untagged Clone
Tag:	Tag Free
Symbol:	LGR7
Synonyms:	LGR7; RXFPR1
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001253730, the custom clone sequence may differ by one or more nucleotides

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ATGTCACTTCAGTGGAACTTAATAAGAAAGCTTCCTCCTGATTGCTTCAAGAATTATCATGATCTTCAGA
AGCTGTACCTGCAAAAACAATAAGATTACATCCATCTCCATCTATGCTTTCAGAGGACTGAATAGCCTTAC
TAAACTGTATCTCAGTCATAACAGAATAACCTTCTGAAGCCGGGTGTTTTGAAGATCTTCACAGACTA
GAATGGCTGATAATTGAAGATAATCACCTCAGTCGAATTTCCCCACCAACATTTTATGGAATAAATTCTC
TTATTCTTATAGTCTGATGAATAACGTCTCACCCGTTTACCTGATAAACCTCTCTGTCAACACATGCC
AAGACTACATTGGCTGGACCTTGAAGGCAACCATATCCATAATTTAAGAAATTTGACTTTTTATTTCTGTC
AGTAATTTAACTGTTTTAGTGATGAGGAAAAACAAAATTAATCACTTAAATGAAAATACTTTTGCACCTC
TCCAGAAACTGGATGAATTGGATTTAGGAAGTAATAAGATTGAAAATCTCCACCGCTTATATTCAAGGA
CCTGAAGGAGCTGCACAATTGAATCTTCTATAATCCAATCCAGAAAATTCAGCAAACCAATTTGAT
TATCTTGTCAAACCAAGTCTCTCCTAGAAGGGATTGAAATTTCAAATATCCAACAAAGGATGTTTAGAC
CTCTTATGAATCTCTCACATATATTTAAGAAATTCAGTACTGTGGGTATGCACCACATGTTTCGCAG
CTGTAAACCAAACTGATGGAATTTATCTCTAGAGAATCTCTTGGCAAGCATTATTCAGAGAGTATTT
GTCTGGGTTGATCTGCAGTTACCTGCTTTGGAACATTTTTGTCAATTTGCATGCGACCTTATATCAGGT
CTGAGAACAAAGCTGTATGCCATGTCAATCATTTCTCTGCTGTGCCACTGCTTAATGGGAATATATTT
ATTCGTGATCGGAGGCTTTGACCTAAAGTTTCGTGGAGAATAACAATAAGCATGCGCAGCTGTGGATGGAG
AGTACTCATTGTCAGCTTGTAGGATCTTTGGCCATTCTGTCCACAGAAGTATCAGTTTTACTGTTAACAT
TTCTGACATTGGAAAAATACATCTGCATTGTCTATCCTTTAGATGTGTGAGACCTGGAAAATGCAGAAC
TTTTTCAAAAACACTACTATGGCACAATGGAGTATGCTTCCCTTTCATTGAGAAGTACAGAAAGTATTG
GAGCCCAGATTTATTCAGTGGCAATTTTTCTTGGTATTAATTTGGCCGCAATTTATCATCATAGTTTTTTC
CTATGGAAGCATGTTTTATAGTGTTCATCAAAGTCCATAAACAGCAACTGAAATACGGAATCAAGTTAAA
AAAGAGATGATCCTTGCCAAACGTTTTTTCTTTATAGTATTTACTGATGCATTATGCTGGATACCCATTT
TTGTAGTGAAATTTCTTTCAGTCTCAGGTAGAAATACCAGGTACCATAACCTCTTGGGTAGTGATTTT
TATTCTGCCCATTAACAGTGTCTTGAACCAATTCTCTATACTCTGACCACAAGACCATTTAAAGAAATG
ATTCATCGGTTTTGGTATAACTACAGACAAAGAAAATCTATGGACAGCAAAGGTCAGAAAACATATGCTC
CATCATTATCTGGGTGAAATGTGGCCACTGCAGGAGATGCCACCTGAGTTAATGAAGCCGGACCTTTT
CACATACCCTGTGAAATGTCAGTATTCTCAATCAACGAGACTCAATTCCTATTCATGA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001253730

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001253730.1](#), [NP_001240659.1](#)

RefSeq Size: 3796 bp

RefSeq ORF: 1881 bp

Locus ID: 59350

Cytogenetics: 4q32.1

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 (5) lacks an internal exon, uses two alternate splice sites and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (5) has a shorter N-terminus, compared to isoform 1.