

Product datasheet for **RC233024**

LGR7 (RXFP1) (NM_001253732) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGR7 (RXFP1) (NM_001253732) 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:

>RC233024 representing NM_001253732
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGACCTGCACTCAGAACATGAAGGCAGCCTTGAATCCTTACTTTATCATTCCCGCAATCTGGGGT
 ACCTGCAAAACAATAAGATTACATCCATCTCCATCTATGCTTTCAGAGGACTGAATAGCCTTACTAACT
 GTATCTCAGTCATAACAGAATAACCTTCTGAAGCCGGTGTTTTGAAGATCTTACAGACTAGAAATGG
 CTGATAATTGAAGATAATCACCTCAGTCGAATTTCCCAACCAACATTTTATGGACTAAATTTCTTATTC
 TCTTAGTCCTGATGAATAACGTCCTCACCCGTTTACCTGATAAACCTCTCTGTCAACACATGCCAAGACT
 ACATTGGCTGGACCTTGAAGGCAACCATATCCATAATTTAAGAAATTTGACTTTTATTTCTGCAGTAAT
 TTAAGTGTAGTATGAGGAAAAACAAATTAATCACTTAAATGAAAAACTTTTGCACCTCTCCAGA
 AACTGGATGAATTGGATTTAGGAAGTAATAAGATTGAAAACTTCCACCGCTTATATTCAAGGACCTGAA
 GGAGCTGCACAATTGAATCTTTCTATAATCCAATCCAGAAAAATCAAGCAAACCAATTTGATTATCTT
 GTCAAACCAAGTCTCTCAGCCTAGAAGGGATTGAAATTTCAAATATCCAACAAAGGATGTTTAGACCTC
 TTATGAATCTCTCACATATATTTAAGAAATCCAGTACTGTGGGTATGCACCACATGTTTCGAGCTG
 TAAACCAAACTGATGGAATTTTATCTCTAGAGAATCTTGGCAAGCATTATTCAGAGAGTATTTGTC
 TGGGTTGTATCTGCAGTTACCTGCTTTGGAAACATTTTGTCAATTTGCATGCGACCTTATCAGGTCTG
 AGAACAAGCTGTATGCCATGTCAATCTTCTCTCTGCTGTGCCGACTGCTTAATGGGAATATTTATT
 CGTGATCGGAGGCTTTGACCTAAAGTTTCGTGGAGAATAAATAAGCATGCGCAGCTGTGGATGGAGAGT
 ACTCATTGTGAGCTTGTAGGATCTTTGGCCATTCTGCCACAGAAGTATCAGTTTTACTGTTAACATTTT
 TGACATTTGGAAAAATACATCTGCATTGTCTATCTTTTATAGATGTGTGAGACCTGGAAAAATGCAGAACAA
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 TTCAAAAACACTATGGCACAATGGAGTATGCTTCCCTCTTATTGAGAAGATACAGAAAGATTGGAG
 CCCAGATTTATTAGTGGCAATTTTCTTGGTATTAATTTGGCCGATTTATCATCATAGTTTTTCTTA
 TGGAAGCATGTTTATAGTGTTCATCAAAGTGCCATAACAGCAACTGAAATACGGAATCAAGTAAAAAA
 GAGATGATCCTTGCCAAACGTTTTTCTTATAGTATTTACTGATGCATTATGCTGGATACCCATTTTGT
 TAGTGAATTTCTTCTGCTCAGGTAGAAATACCAGGTACCATAACCTCTTGGGTAGTATTTTAT
 TCTGCCATTAACAGTCTTTGAACCAATCTCTATACTCTGACCACAAGACCTTTAAGAAATGATT
 CATCGGTTTTGGTATAACTACAGACAAAGAAAATCTATGGACAGCAAAGGTCAGAAAACATATGCTCCAT
 CATTATCTGGGTGAAATGTGGCACTGCAGGAGATGCCACCTGAGTTAATGAAGCCGGACCTTTTAC
 ATACCCCTGTGAATGTCACTGATTTCTCAATCAACGAGACTCAATTCCTATTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC233024 representing NM_001253732
 Red=Cloning site Green=Tags(s)

MVTCTQNKAALKSLLYHSRNLGYLQNNKITSISIIYAFRGLNSLTKLYLSHNRITFLKPGVFEDLHRL
 LIIEDNHLSRISPTFYGLNSLILLVLMNNVLRPLDKPLCQHMPRLHWLDLEGNHINLRLTFISCSN
 LTVLVMRKNKINHLNENTFAPLQKLDLDELGNSNIENLPLIFKDLKELSQLNLSYNPIQKIQANQFDYL
 VKLKSLLEGIEISNIQQRMFRPLMNLSHIYFKKFQYCYAPHVRSCKPNTDGISSLENLLASIIQRV
 FVWVSAVTCFVGNIFVICMRPYIRSENKLYAMSIIISLCCADCLMGIYLFVIGGFDLFRGEYNKHAQL
 WMESTHCQLVGLAILSTEVSLLLLFLEKYLIVYVFRVCRPGKRTITVLIWIWTFIVAFIPLSNKEF
 FKNYYGTNGVCFPLHSEDTESIGAQIYSVAIFLGINLAAFIIIVFSYGSFYSVHQSAITATEIRNQV
 KEMILELAKRFFFIVFTDALCWIPIFVVKFLSLLQVEIPGTITSWVVFILPINSALNPILYTLTTRPFK
 EMIRHFVWYNYRQRKSMDSKGQKTYAPSFIIWVEMWPLQEMPELMPDLFTYPCMSLISQSTRLSYS

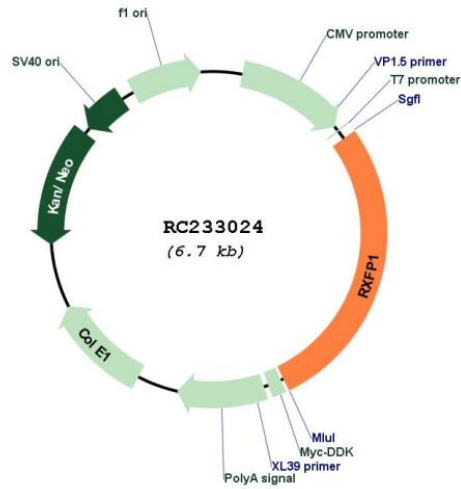
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001253732

ORF Size: 1875 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:	<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_001253732.2
RefSeq Size:	3958 bp
RefSeq ORF:	1878 bp
Locus ID:	59350
Cytogenetics:	4q32.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	72.7 kDa
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]