

Product datasheet for **RG233024**

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:	TurboGFP
Symbol:	RXFP1
Synonyms:	LGR7; RXFPR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG233024 representing NM_001253732
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGACCTGCACTCAGAACATGAAGGCAGCCTTGAATCCTTACTTTATCATTCCCGCAATCTGGGGT
 ACCTGCAAAACAATAAGATTACATCCATCTCCATCTATGCTTTCAGAGGACTGAATAGCCTTACTAACT
 GTATCTCAGTCATAACAGAATAACCTTCTGAAGCCGGGTGTTTTGAAGATCTTACAGACTAGAAATGG
 CTGATAATTGAAGATAATCACCTCAGTCGAATTTCCACCAACATTTTATGGACTAAATTTCTTATTCT
 TCTTAGTCCTGATGAATAACGTCCTCACCCGTTTACCTGATAAACCTCTGTCAACACATGCCAAGACT
 ACATTGGCTGGACCTTGAAGGCAACCATATCCATAATTTAAGAAATTTGACTTTTATTTCTGCAGTAAT
 TTAAGTGTAGTATGAGGAAAAACAAATTAATCACTTAAATGAAAATACTTTGCACCTCTCCAGA
 AACTGGATGAATTGGATTTAGGAAGTAATAAGATTGAAAATCTTCCACCGCTTATATTCAAGGACCTGAA
 GGAGCTGCACAATTGAATCTTTCTATAATCCAATCCAGAAAATCAAGCAAACCAATTTGATTATCTT
 GTCAAACCAAGTCTCTCAGCCTAGAAGGATTGAAAATTTCAAATATCCAACAAAGGATGTTTAGACCTC
 TTATGAATCTCTCACATATATTTAAGAAATCCAGTACTGTGGGTATGCACCACATGTTTCGACGCTG
 TAAACCAAACTGATGGAATTTTATCTCTAGAGAATCTTGGCAAGCATTATTCAGAGAGTATTTGTC
 TGGGTTGTATCTGCAGTTACCTGCTTTGGAAACATTTTGTCAATTTGCATGCGACCTTATCAGGTCTG
 AGAACAAGCTGTATGCCATGTCAATCATTTCTCTCTGCTGTGCCGACTGCTTAATGGGAATATTTATT
 CGTGATCGGAGGCTTTGACCTAAAGTTTCGTGGAGAATAACAATAAGCATGCGCAGCTGTGGATGGAGAGT
 ACTCATTGTGAGCTTGTAGGATCTTTGGCATTCTGCCACAGAAGTATCAGTTTTACTGTTAACATTTT
 TGACATTTGGAAAAATACATCTGCATTGTCTATCTCTTTAGATGTGTGAGACCTGGAAAAATGCAGAACAA
 TACAGTTCTGATTCTCATTGGATTACTGGTTTTATAGTGGCTTTCATTCCATTGAGCAATAAGGAATTT
 TTCAAAAATACTATGGCACAATGGAGTATGCTTCCCTCTTATTGAGAAGATACAGAAAGTATTGGAG
 CCCAGATTTATTAGTGGCAATTTTCTTGGTATTAATTTGGCCGATTTATCATCATAGTTTTTCTTA
 TGGAAAGCATGTTTATAGTGTTCATCAAAGTGCCATAACAGCAACTGAAATACGGAATCAAGTAAAAAA
 GAGATGATCCTTGCCAAACGTTTTTCTTATAGTATTTACTGATGCATTATGCTGGATACCCATTTTGT
 TAGTGAATTTCTTCTGCTCAGGTAGAAATACCAGGTACCATAACCTCTTGGGTAGTATTTTAT
 TCTGCCATTAACAGTCTTTGAACCAATTCTCTATACTCTGACCACAAGACCATTTAAGAAATGATT
 CATCGGTTTTGGTATAACTACAGACAAAGAAAATCTATGGACAGCAAAGGTCAGAAAACATATGCTCCAT
 CATTATCTGGGTGAAAATGTGGCACTGCAGGAGATGCCACCTGAGTTAATGAAGCCGGACCTTTTCAC
 ATACCCCTGTGAAATGCTACTGATTTCTCAATCAACGAGACTCAATTCCTATTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG233024 representing NM_001253732
 Red=Cloning site Green=Tags(s)

MVTCTQNMKAALKSLLYHSRNLGYLQNNKITSISIIYAFRGLNSLTKLYLSHNRITFLKPGVFEDLHRLEW
 LIIEDNHLSRISPTFYGLNSLILLVLMNNVLRPLDKPLCQHMPRLHWLDLEGNHINHLRNLTFISCSN
 LTVLVMRKNKINHLNENTFAPLQKLDLDELGNSKIENLPLIFKDLKELSQLNLSYNPIQKIQANQFDYL
 VKLKSLLEGIEISNIQQRMFRLMNLSHIYFKKFQYCGYAPHVRSCKPNTDGISSLENLLASIIQRVVFV
 WVYSAVTCFVGNIFVICMRPYIRSENKLYAMSIISLCCADCLMGIYLFVIGGFDLFRGEYNKHAQLWMES
 THCQLVGLAILSTEVSLLLLFLEKVICIVYVFRVRCVPGKCRITVLIILWIWTFIVAFIPLSNKEF
 FKNYYGTNGVCFPLHSEDTESIGAQIYSVAIFLGINLAAFIIVFSYGSFYSVHQSAITATEIRNQVKK
 EMILAKRFFFIVFTDALCWIPIFVVKFLLSLLQVEIPGTTISWVVFIFLIPINSALNPILYTLTTRPFKEMI
 HRFWYNYRQRKSMDSKGQKYAPFSFIWVEMWPLQEMPPELMPDLFTYPCEMSLISQSTRLNSYS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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
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]