

## Product datasheet for **RG233002**

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



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**ORF Nucleotide Sequence:**

>RG233002 representing NM\_001253733  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTGACCTGCACTCAGAACATGAAGGCAGCCTTGAATCCTTACTTTATCATTCCCGCAATCTGGGGT  
 ACCTGCAAAACAATAAGATTACATCCATCTCCATCTATGCTTTCAGAGGACTGAATAGCCTTACTAACT  
 GTATCTCAGTCATAACAGAATAACCTTCTGAAGCCGGTGTTTTGAAGATCTTACAGACTAGAAATGG  
 CTGATAATTGAAGATAATCACCTCAGTCGAATTTCCACCAACATTTTATGGACTAAATCTCTTATTC  
 TCTTAGTCCTGATGAATAACGTCCTCACCCGTTTACCTGATAAACCTCTCTGTCAACACATGCCAAGACT  
 ACATTGGCTAGTGATGAGGAAAAACAAATTAATCACTTAAATGAAAATACTTTTGCACCTCTCCAGAAA  
 CTGGATGAATTGGATTTAGGAAGTAATAAGATTGAAAATCTTCCACCGCTTATATCAAGGACCTGAAGG  
 AGCTGTCACAATTGAATCTTTCCTATAATCCAATCCAGAAAATCAAGCAAACCAATTTGATTATCTTGT  
 CAAACTCAAGTCTCTCAGCCTAGAAGGGATTGAAATTTCAAATATCCAACAAAGGATGTTTAGACCTCTT  
 ATGAATCTCTCTACATATATTTAAGAAATCCAGTACTGTGGGTATGCCACCATGTTTCGCAGCTGTA  
 AACCAAACTGATGGAATTTTCTCTAGAGAATCTCTTGGCAAGCATTATTCAGAGAGTATTTGTCTG  
 GTTTGTATCTGCAGTTACCTGCTTTGAAAACATTTTGTCAATTCATGCGACCTTATATCAGGTCTGAG  
 AACAAAGCTGTATGCCATGCAATCATTTCTCTGCTGTGCCGACTGCTTAATGGGAATATATTTATTCG  
 TGATCGGAGGCTTTGACCTAAAGTTTCGTGGAGAATAACAATAAGCATGCCGAGCTGTGGATGGAGAGTAC  
 TCATTGTCAGCTTGTAGGATCTTGGCCATTCTGTCCACAGAAGTATCAGTTTTACTGTTAACATTTCTG  
 ACATTGGAAAAATACATCTGCATTGTCTATCCTTTTAGATGTGTGAGACCTGGAAAATGCAGAACAAATTA  
 CAGTTCTGATTTCTATTTGGATTACTGGTTTTATAGTGGCTTTTTCATTCCATTGAGCAATAAGGAATTTT  
 CAAAACTACTATGGCACCAATGGAGATGCTTCCCTTTCATTAGAAGATACAGAAAAGTATTGGAGCC  
 CAGATTTATTCAGTGGCAATTTTCTTGGTATTAATTTGGCCGATTTATCATCATAGTTTTTCTATG  
 GAAGCATGTTTTATAGTGTTCATCAAAGTCCATAACAGCAACTGAAATACGGAATCAAGTTAAAAAAGA  
 GATGATCCTTGCCAAACGTTTTTCTTTATAGTATTTACTGATGCATTATGCTGGATACCCATTTTGTG  
 GTGAAATTTCTTCTACTGCTTCCAGGTAGAAATACCAGGTACCATAACCTCTTGGGTAGTGATTTTATTC  
 TGCCCATTAACAGTGCTTTGAACCAATTTCTATACTCTGACCACAAGACCATTTAAAGAAATGATTCA  
 TCGTTTTTGGTATAACTACAGACAAAGAAAATCTATGGACAGCAAAGGTCAGAAAACATATGCTCCATCA  
 TTCATCTGGGTGAAATGTGCCACTGCAGGAGATGCCACCTGAGTTAATGAAGCCGGACCTTTTACAT  
 ACCCTGTGAAATGTCACTGATTTCTCAATCAACGAGACTCAATTCCTATTCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG233002 representing NM\_001253733  
 Red=Cloning site Green=Tags(s)

MVTCTQNMKAALKSLLYHSRNLGYLQNNKITSISIIYAFRGLNSLTKLYLSHNRITFLKPGVFEDLHRLEW  
 LIIEDNHLSRISPTFYGLNSLILLVLMNNVLRPLDKPLCQHMPRLHWLVMRKNKINHLNENTFAPLQK  
 LDELDLGNSNKIENLPLIFKDLKELSQLNLSYNPIQKIQANQFDYLVKLKSLSLEGIEISNIQQRMFRL  
 MNLSHIYFKKFQYCGYAPHVRSCKPNTDGISSLENLLASIIQRFVWVVSAVTCFNIIFVICMRPYIRSE  
 NKLYAMSIISLCCADCLMGIYLFVIGGFDLKRGEYNKHAQLWMESTHCQLVGLAILSTEVSLLLLTFL  
 TLEKYICIVYFRCVPRGKCRITITVLILIWITGFIVAFIPLSNKEFFKNYYGTNGVCFPLHSEDTESIGA  
 QIYSVAIFLGINLAAFIIIVFSYGSFMFYSVHQSATITATEIRNQVKKEMILAKRFFFIVFTDALCWIPIFV  
 VKFLSLLQVEIPGTITSWVIFILPINSALNPILYTLTRPFKEMIHFRWYNYRQRKSMDSKGQKTYAPS  
 FIWVEMWPLQEMPELMKPDFLTYPCEMSLISQSTRLNSYS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<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>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]