

## Product datasheet for **RG234877**

### LGR7 (RXFP1) (NM\_001253727) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LGR7 (RXFP1) (NM_001253727) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LGR7
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:**

>RG234877 representing NM\_001253727  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACATCTGGTTCTGTCTTCTTCTACATCTTAATTTTTGGAAAAATTTTTCTCATGGGGTGGACAGG  
 ATGTC AAGTGCTCCCTTGCTATTTCCCTGTGGGAACATCACAAAGTGCTTGCCTCAGCTCCTGCACTG  
 TAACGGTGTGGACGACTGCGGGAATCAGGCCGATGAGGACAACACTGTGGAGACAACAATGGATGGTCTCTG  
 CAATTTGACAAAATTTTTGCCAGTTACTACAAAATGACTTCCCAATATCCTTTTGAGGCAGAAAACCTG  
 AATGTTCTTTTCATTTCTTTCTTTTATTACCTCCTCTTCTGGTCCCTCACTGTCATCATGCCTTACC  
 ACTTCCCCTTGATTCACTGGTTCGGTCTGTGCCAGTGCAATGTCTTTGCCAAGGTCTGGAGCTTGACTGT  
 GATGAAACCAATTTACGAGCTGTCCATCGTTTCTTCAAATGTGACTGCAATGCACCTCAGTGGAACT  
 TAATAAGAAAGCTTCTCCTGATTGCTTCAAGAATTATCATGATCTTCAAGAGCTGTACCTGCAAAAACA  
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 AACAGAATAACCTTCTGAAGCCGGGTGTTTTGAAGATCTTACAGACTAGAATGGCTGATAATTGAAG  
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 GGATTTAGGAAGTAATAAGATTGAAAATCTTCCACCGCTATATTCAAGGACCTGAAGGAGCTGCACAA  
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 TTTGACCTAAAGTTTCGTGGAGAATAACAATAAGCATGCGCAGCTGTGGATGGAGAGTACTCATTGTCAGC  
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 TATAGTGTTCATCAAAGTGCCATAACAGCAACTGAAATACGGAATCAAGTTAAAAAGAGATGATCCTTG  
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 TTCCTGCTTCAGGTAGAAAATACCAGGTACCATAACCTCTTGGGTAGTGATTTTTATTCTGCCCATTAAC  
 AGTGCTTTGAACCAATCTCTATACTCTGACCACAAGACCATTTAAGAAATGATTTCATCGTTTTGGT  
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 GGAAATGTGGCCACTGCAGGAGATGCCACCTGAGTTAATGAAGCCGGACTTTTACATACCCCTGTGAA  
 ATGTCACTGATTTCTCAATCAACGAGACTCAATTCCTATTCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG234877 representing NM\_001253727  
 Red=Cloning site Green=Tags(s)

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MTSGSVFFYILIFGKYFSHGGGQDVKCSLGYFPCGNITKCLPQLLHCNGVDDCGNQADENCGDNNGWSL
QFDKYFASYKMTSQYPFEAETPECSFHFFLFLITLLFLVPHCHHALPLPLDSVVGSPVQCLCQGLELDC
DETNLRAVPSVSSNVTAMSLQWNLIRKLPDPCFKNYHDLQKLYLQNNKITSISIIYAFRGLNSLTKLYLSH
NRITFLKPGVFEDLHRLLEWLIIEDNHLSRISPPTFYGLNSLILLVLMNNVLTRELDPKPLCQHMPRLHWLD
LEGNHIIHNLRLNLTFSNLTVLVMRKNKINHLNENTFAPLQKLELDLGSNKIENLPPLIFKDLKELSQ
LNL SYNPIQKIQANQFDYLVKLSLSLEGIEISNIQQRMRPLMNL SHIYFKKFQYCGYAPHVRSCKPNT
DGISSLENLLASIIQRVFWVVS AVTCFNI FVICMRPYIRSENKLYAMSII SLCCADCLMGIYLFVIGG
FDLKFRGEYNKHAQLWMESTHCQLVGS LA I LSTEVS V L L L T F L T L E K Y I C I V Y P F R C V R P G K C R T I T V L I
L I W I T G F I V A F I P L S N K E F F K N Y Y G T N G V C F P L H S E D T E S I G A Q I Y S V A I F L G I N L A A F I I I V F S Y G S M F
Y S V H Q S A I T A T E I R N Q V K K E M I L A K R F F F I V F T D A L C W I P I F V V K F L S L L Q V E I P G T I T S W V V I F I L P I N
S A L N P I L Y T L T T R P F K E M I H R F W Y N Y R Q R K S M D S K G Q K T Y A P S F I W V E M W P L Q E M P P E L M K P D L F T Y P C E
M S L I S Q S T R L N S Y S
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001253727

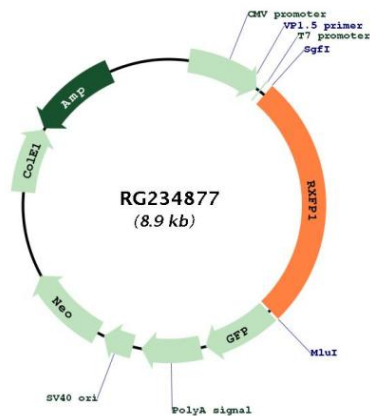
**ORF Size:** 2352 bp

**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.

<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>	<u>NM_001253727.1, NP_001240656.1</u>
<b>RefSeq Size:</b>	3955 bp
<b>RefSeq ORF:</b>	2355 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]

**Product images:**



Circular map for RG234877