

Product datasheet for **RG233096**

LGR7 (RXFP1) (NM_001253729) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGR7 (RXFP1) (NM_001253729) 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:

>RG233096 representing NM_001253729
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACATCTGGTTCTGTCTTCTTCTACATCTTAATTTTTGGAAAATTTTTCTCATGGGGTGGACAGG
 ATGTCAAGTGCTCCCTTGCTATTTCCCTGTGGGAACATCACAAAGTGCTTGCCTCAGCTCCTGCACTG
 TAACGGTGTGGACGACTGCGGGAATCAGGCCGATGAGGACAACACTGTGGAGACAACAATGGATGGTCTCTG
 CAATTTGACAAAATTTTTGCCAGTTACTACAAAATGACTTCCCAATATCCTTTTGAGGCAGAAAACCTG
 AATGTTTGGTTCGTTCTGTGCCAGTGAATGTCTTTGCCAAGTCTGGAGCTTACTGTGATGAAACCAA
 TTTACGAGCTGTTCCATCGTTTCTTCAAATGTGACTGCAATGCACTTCAGTGGAACTTAATAAGAAAG
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 CCATCTCCATCTATGCTTTCAGAGGACTGAATAGCCTTACTAACTGTATCTCAGTCATAACAGAATAAC
 CTTCTGAAGCCGGTGTTTTTGAAGATCTTCACAGACTAGAATGGCTGATAATTGAAGATAATCACCTC
 AGTCGAATTTCCCAACCAACATTTTATGGACTAAATCTCTTATTCTTATCTAGTCCTGATGAATAACGTC
 TCACCCGTTTACCTGATAAACCTCTCTGTCAACACATGCCAAGACTACATTGGCTGGACCTTGAAGGCAA
 CCATATCCATAATTTAAGAAATTTGACTTTTATTTCTGACAGTAAATTAAGTGTGTTAGTGATGAGGAAA
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 GAAATTCAGTACTGTGGTATGCACCACATGTTGCGAGCTGTAACCAAACTGATGGAATTTTCACTC
 CTAGAGAATCTCTGGCAAGCATTATTCAGAGAGTATTTGTCTGGTGTATCTGCAGTTACCTGCTTTG
 GAAACATTTTTGTCATTTGCATGCGACCTTATATCAGGTCTGAGAACAAGCTGTATGCCATGTCAATCAT
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 TTATAGTATTTACTGATGCATTATGCTGGATACCCATTTTGTAGTGAAATTTCTTTCAGTCTTCAGGT
 AGAAATACCAGGTACCATAACCTCTTGGGTAGTGATTTTTATTCTGCCATTAAACAGTGCTTTGAACCCA
 ATTCTCTATACTGACCACAAGACATTTAAAGAAATGATTCATCGGTTTTGGTATAACTACAGACAAA
 GAAATCTATGGACAGCAAAGGTCAGAAAACATATGCTCCATCATTATCTGGGTGGAAATGTGGCCACT
 GCAGGAGATGCCACCTGAGTTAATGAAGCCGGACCTTTTCACATACCCCTGTGAAATGCACTGATTTCT
 CAATCAACGAGACTCAATTCCTATTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233096 representing NM_001253729
 Red=Cloning site Green=Tags(s)

MTSGSVFFYILIFGKYFSHGGGQDVKCSLGYFPCGNITKCLPQLLHCNGVDDCGNQAEDNCGDNNGWSL
 QFDKYFASYKMTSQYPFEAETPECLVGSVPVQCLCQGLELDCDETNLRAVPSVSSNVTAMSLQWNLIRK
 LPPDCFKNYHDLQKLYLQNNKITSISIYAFRGLNSLTKLYLSHNRITFLKPGVFEDLHRLEWLIIEDNHL
 SRI SPPTFYGLNSLILLVLMNNVLTLPDKPLCQHMPRLHWLDLEGNHIIHNLRLNLFISCSNLTVLVMRK
 NKINHLNENTFAPLQKLEFSLGIEISNIQRMFRPLMNLSHIYFKKFQYCGYAPHVRSCKPNTDGISS
 LENLLASIIQRVFWVVS AVTFCGNIFVICMRPYIRSENKLYAMSIISLCCADCLMGIYLFVIGGFDLKF
 RGEYNKHAQLWMESTHCQLVGLAILSTEVSVLLL TFLTLEKYICIVYPFRCVPRGKCRITITVLIWIWIT
 GFIVAFIPLSNKEFFKNYYGTNGVCFPLHSEDTESIGAQIYSVAIFLGINLAAFIIVFSYGSMFYSVHQ
 SAITATEIRNQVKEMILAKRFFFIVFTDALCWIPIFVVKFLLQVEIPGTITSWVWIFILPINSALNP
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 QSTRLNSYS

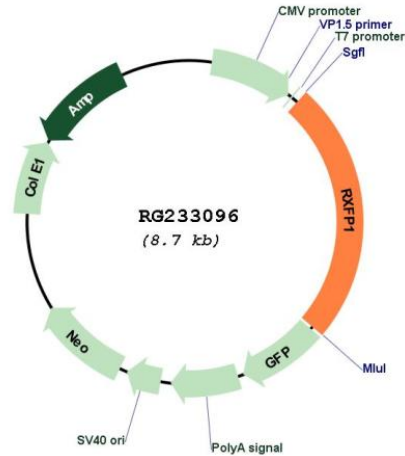
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001253729

ORF Size: 2127 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:

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_001253729.2](#)

RefSeq Size: 3730 bp

RefSeq ORF: 2130 bp

Locus ID:	59350
UniProt ID:	Q9HBX9
Cytogenetics:	4q32.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<p>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]</p>