

Product datasheet for **RG228559**

LGR8 (RXFP2) (NM_001166058) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGR8 (RXFP2) (NM_001166058) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LGR8
Synonyms:	GPR106; GREAT; INSL3R; LGR8; LGR8.1; RXFPR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228559 representing NM_001166058
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGTTTTCTGGTTTTAAACATCTCTTCAGCCTCAGATTGATTACAATGTTCTTTCTACTTCATT
 TCATCGTTCTGATCAATGTCAAAGATTTTGCACCTGACTCAAGGTAGCATGATCACTCCTTCATGCCAAAA
 AGGATATTTTCCCTGTGGGAATCTTACCAAGTGCTTACCCCGAGCTTTTCACTGTGATGGCAAGGATGAC
 TGTGGGAACGGGGCGGACGAAGAGAAGTGGTGACACTAGTGGATGGGCGACCATTTTGGCACAGTGC
 ATGGAAATGCTAACAGCGTGGCCTAACACAGGAGTGCTTTCTAAAACAGTATCCACAATGCTGTGACTG
 CAAAGAACTGAATTGGAATGTGTAATGGTGACTTAAAGTCTGTGCCGATGATTTCTAACAAATGTGACA
 TTACTGTCTCTTAAGAAAAACAAAATCCACAGTCTTCCAGATAAAGTTTTCATCAATACACAAAACCTTA
 AAAAGATATTTCTCAGCATAATTGCATTAGACACATATCCAGGAAAGCATTTTTTGGATTATGTAATCT
 GCAAAATATTATCTCAACCACAACCTGCATCACAACCCTCAGACCTGGAATATTCAAAGACTTACATCAG
 CTAACCTGGCTAATTCTAGATGACAATCCAATAACCAGAAATTCACAGCGCTTGTTTACGGGATTAATT
 CCTTGTTTTCTGTCTATGGTTAATACTACTTAGAAGCTCTTCCCAAGCAGATGTGTGCCAAATGCC
 TCAACTCAACTGGGTGGATTTGGAAGGCAATAGAATAAAGTATCTCACAAATCTACGTTTCTGTGCTGC
 GATTCGCTCACAGTGTGGATCTGTCTAGCAATACGATAACGGAATATCACCTCACTTTTTAAAGACT
 TGAAGCTTCTACAAAAGCTGAACCTGTCATCCAATCCTCTTATGTATCTTACAAGAACCAGTTTGAAG
 TCTTAAACAACCTCAGTCTTAGACCTGGAAAGGATAGAGATTCCAAATAAACAACACGAAATGTTTCAA
 CCCATGAAGAATCTTCTCACATTTATTTCAAAAACCTTCGATACTGCTCCTATGCTCCCATGTCCGAA
 TATGTATGCCCTTGACGGACGGCATTCTCATTGAGGACCTCTGGCTAACAAATATCCTCAGAATATT
 TGTCTGGGTTATAGCTTTCATTACCTGCTTTGGAAATCTTTTTGTCATTGGCATGAGATCTTTCATTAAA
 GCTGAAAATACAACCTCACGCTATGTCCATCAAAATCCTTTGTTGTGCTGATTGCCTGATGGGTGTTTACT
 GTTCTTTGTTGGCATTTCGATATAAAAATACCGAGGGCAGTATCAGAAGTATGCCTTGCTGTGGATGGA
 GAGCGTGCAGTGGCCCTCATGGGGTCTGGCCATGCTGTCCACCGAAGTCTCTGTTCTGCTACTGACC
 TACTTGACTTTGGAGAAGTTCCTGGTCTTGTCTTCCCCTCAGTAACATTGACCTGGAAAACGGCAGA
 CCTCAGTCATCCTCATTGCATCTGGATGGCGGGATTTTAAATAGCTGTAATCCATTTTGAATAAAGGA
 TTATTTTGGAACTTTTATGGGAAAAATGGAGTATGTTTCCCCTTTATTATGACCAAACAGAAGATATT
 GGAAGCAAAGGTATTCTTGGAAATTTCTAGGTGTGAACCTGCTGGCTTTTCTCATCATTGTGTTTT
 CCTATATTAATGTTCTGTTCCATTCAAAAAACCGCCTTGCAGACCACAGAAGTAAGGAATTGTTTTGG
 AAGAGAGGTGGCTGTTGCAAATCGTTTCTTTTTATAGTGTCTCTGATGCCATCTGCTGGATTCCTGTA
 TTTGTAGTTAAAACTTTCCCTCTTCCGGGTGGAAATACCAGACACAATGACTTCTGGATAGTGATTT
 TTTTCTTCCAGTTAACAGTGTCTTGAATCCAATCCTCTATACTCTCACAACTTTTTTAAAGGACAA
 GTTGAAACAGCTGCTGCACAAACATCAGAGGAAATCAATTTTCAAAATTAATAAAAAAAGTTTATCTACA
 TCCATTGTGTGGATAGAGGACTCCTCTTCCCTGAAACTGGGGTTTTGAACAAAATAACACTTGGAGACA
 GTATAATGAAACCAAGTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228559 representing NM_001166058
 Red=Cloning site Green=Tags(s)

MIVFLVFKHLFSLRLITMFFLLHFIVLINVKDFALTQGSMITPSCQKGYFPCGNLTKCLPRAFHC DGKDD
 CGNGADEENC GDTSGWATIFGTVHGNANSVALTQECFLKQYPQCDCKETELCEVNGDLKSVPMISNNVT
 LLSLKKNKIHS L PDKVF IKYTKLKKIFLQHNCIRHISRKAFFGLCNLQILYLNHNCITTLRPGIFKDLHQ
 LTWLILDDNPITRISQRLFTGLNSLFFLSMVNNYLEALPKQMCAMPQLNWVDLEGNRIKYL TNSTFLSC
 DSLTVL D LSSNTITELSPHLFKDLKLLQKLNLSNPLMYLHKNQFESLKQLQSLDLERIEIPNINTRMFQ
 PMKNLSHIYFKNFRYCSYAPHVRI CMPLTDGISSFEDLLANNILRIFVWVIAFITCFGNLFVIGMRSFIK
 AENTTHAMSIKILCCADCLMGVYLFFVGIFDIKYRGQYQYALLWMESVQCRLMGFLAMLSTEVSVLLLT
 YLTLEKFLVIVFPFSNIRPGKRQTSVILICIMMAGFLIAVIPFWNKDYFGNFYKNGVCFPLYYDQTEDI
 GSKGYSLGIFLGVNLLAFLIIVFSYITMFC SIQKTA LQTTEVRNCFGREVAVANRFFVIFVSDAICWIPV
 FVVKILSLFRVEIPD TMTSWIVIFFLPVNSALNPILYTLTTNFFKDKLQLLHKHQKRSIFKIKKSLST
 SIVWIEDSSSLKLGVLNKITLGD SIMKPVS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001166058

ORF Size: 2190 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_001166058.1](#), [NP_001159530.1](#)

RefSeq Size: 2731 bp

RefSeq ORF: 2193 bp

Locus ID: 122042

UniProt ID: [Q8WXD0](#)

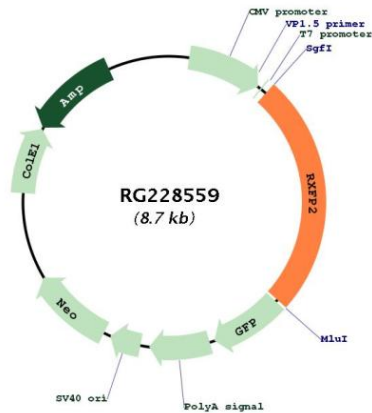
Cytogenetics: 13q13.1

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: This gene encodes a member of the GPCR (G protein-coupled, 7-transmembrane receptor) family. Mutations in this gene are associated with cryptorchidism. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009]

Product images:



Circular map for RG228559