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Product datasheet for RC228559

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:	Myc-DDK
Symbol:	LGR8
Synonyms:	GPR106; GREAT; INSL3R; LGR8; LGR8.1; RXFPR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC228559 representing NM_001166058
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTGTTTTTCTGGTTTTTAAACATCTCTTCAGCCTCAGATTGATTACAATGTTCTTTCTACTTCATT
TCATCGTTCTGATCAATGTCAAAGATTTTGCACTGACTCAAGGTAGCATGATCACTCCTTCATGCCAAAA
AGGATATTTTCCCTGTGGGAATCTTACCAAGTGCTTACCCCGAGCTTTTCACTGTGATGGCAAGGATGAC
TGTGGGAACGGGGCGGACGAAGAGAACTGTGGTGACACTAGTGGATGGGCGACCATATTTGGCACAGTGC
ATGGAAATGCTAACAGCGTGGCCTTAACACAGGAGTGCTTTCTAAAACAGTATCCACAATGCTGTGACTG
CAAAGAAACTGAATTGGAATGTGTAAATGGTGACTTAAAGTCTGTGCCGATGATTTCTAACAATGTGACA
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AAAAGATATTTCTTCAGCATAATTGCATTAGACACATATCCAGGAAAGCATTTTTTGGATTATGTAATCT
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CCTTGTTTTTCCTGTCTATGGTTAATAACTACTTAGAAGCTCTTCCCAAGCAGATGTGTGCCCAAATGCC
TCAACTCAACTGGGTGGATTTGGAAGGCAATAGAATAAAGTATCTCACAAATTCTACGTTTCTGTCGTGC
GATTCGCTCACAGTGCTGGATCTGTCTAGCAATACGATAACGGAACTATCACCTCACCTTTTTAAAGACT
TGAAGCTTCTACAAAAGCTGAACCTGTCATCCAATCCTCTTATGTATCTTCACAAGAACCAGTTTGAAAG
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CCCATGAAGAATCTTTCTCACATTTATTTCAAAAACTTTCGATACTGCTCCTATGCTCCCCATGTCCGAA
TATGTATGCCCTTGACGGACGGCATTTCTTCATTTGAGGACCTCTTGGCTAACAATATCCTCAGAATATT
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GTTGAAACAGCTGCTGCACAAACATCAGAGGAAATCAATTTTCAAAATTAAAAAAAAAAGTTTATCTACA
TCCATTGTGTGGATAGAGGACTCCTCTTCCCTGAAACTTGGGGTTTTGAACAAAATAACACTTGGAGACA
GTATAATGAAACCAGTTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228559 representing NM_001166058
Red=Cloning site Green=Tags(s)

MIVFLVFKHLFSLRLITMFFLLHFIVLINVKDFALTQGSMITPSCQKGYFPCGNLTKCLPRAFHCDGKDD
CGNGADEENCGDTSGWATIFGTVHGNANSVALTQECFLKQYPQCCDCKETELECVNGDLKSVPMISNNVT
LLSLKKNKIHSLPDKVFIKYTKLKKIFLQHNCIRHISRKAFFGLCNLQILYLNHNCITTLRPGIFKDLHQ
LTWLILDDNPITRISQRLFTGLNSLFFLSMVNNYLEALPKQMCAQMPQLNWVDLEGNRIKYLTNSTFLSC
DSLTVLDLSSNTITELSPHLFKDLKLLQKLNLSSNPLMYLHKNQFESLKQLQSLDLERIEIPNINTRMFQ
PMKNLSHIYFKNFRYCSYAPHVRICMPLTDGISSFEDLLANNILRIFVWVIAFITCFGNLFVIGMRSFIK
AENTTHAMSIKILCCADCLMGVYLFFVGIFDIKYRGQYQKYALLWMESVQCRLMGFLAMLSTEVSVLLLT
YLTLEKFLVIVFPFSNIRPGKRQTSVILICIWMAGFLIAVIPFWNKDYFGNFYGKNGVCFPLYYDQTEDI
GSKGYSLGIFLGVNLLAFLIIVFSYITMFCSIQKTALQTTEVRNCFGREVAVANRFFFIVFSDAICWIPV
FVVKILSLFRVEIPDTMTSWIVIFFLPVNSALNPILYTLTTNFFKDKLKQLLHKHQRKSIFKIKKKSLST
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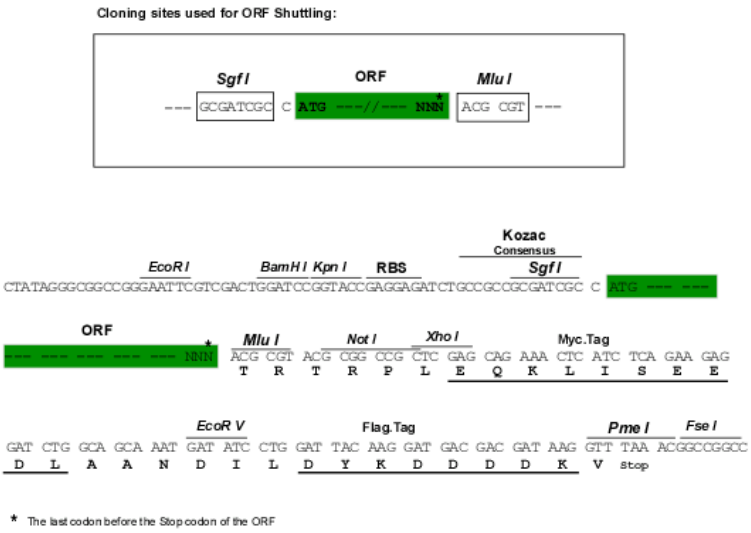
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 ORF: 2193 bp

Locus ID: 122042

UniProt ID: Q8WXD0

Cytogenetics: 13q13.1

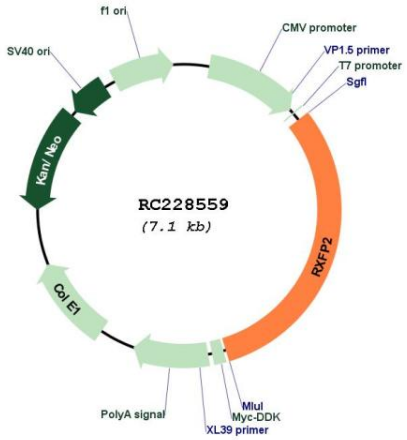
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

MW: 83.6 kDa

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 RC228559