

Product datasheet for **RG219765**

LGR8 (RXFP2) (NM_130806) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGR8 (RXFP2) (NM_130806) 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:

>RG219765 representing NM_130806
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATTGTTTTCTGGTTTTAAACATCTCTTCAGCCTCAGATTGATTACAATGTTCTTTCTACTTCATT
 TCATCGTTCTGATCAATGTCAAAGATTTTGCACCTGACTCAAGGTAGCATGATCACTCCTTCATGCCAAAA
 AGGATATTTTTCTGTGGGAATCTTACCAAGTGCTTACCCCGAGCTTTTCACTGTGATGGCAAGGATGAC
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 AAAAGATATTTCTCAGCATAATTGCATTAGACACATATCCAGGAAAGCATTTTTGGATTATGTAATCT
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 TCAACTCAACTGGGTGGATTTGGAAGGCAATAGAATAAAGTATCTCACAATTTCTACGTTTCTGTGCTGC
 GATTTCGCTCACAGTGTGTTTCTGCCTAGAAATCAAATGGTTTTGTTCCAGAGAAGACATTTTCTTCAT
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 CTTGAAGCTTCTACAAAAGCTGAACCTGTATCCAATCCTCTTATGTATCTTACAAGAACCAGTTTGAA
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 AAGTTGAAACAGCTGCTGCACAACATCAGAGGAAATCAATTTCAAAAATAAAAAAAAGTTTATCTA
 CATCCATTGTGTGATAGAGGACTCCTCTTCCCTGAAACTTGGGTTTTGAACAAAATAACACTTGGAGA
 CAGTATAATGAAACCAGTTTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG219765 representing NM_130806
 Red=Cloning site Green=Tags(s)

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MIVFLVFKHLFSLRLITMFFLLHFIVLINVKDFALTQGSMITPSCQKGYFSCGNLTKCLPRAFHC DGKDD
CGNGADEENC GDTSGWATIFGTVHGNANSVALTQECFLKQYPQCCDCKETELEC VNGDLKSVPMISNNVT
LLSLQKNKIHSLPDKVFIKYTKLKKIFLQHN CIRHISRKAFFGLCNLQILYLNHNCITTLRPGIFKDLHQ
LTWLILDDNPITRISQRLFTGLNSLFFLSMVNNYLEALPKQMCAQMPQLNWVDLEGNRIKYL TNSTFLSC
DSLTVLFLPRNQIGFVPEKTFSSLKNLGELDLSSNTITELSPHLFKDLKLLQKLNLSNPLMYLHKNQFE
SLKQLQSLDLERIEIPNINTRMFQPMKNLSHIYFKNFRYCSYAPHV R ICMPLTDGISSFEDLLANNILRI
FVWVIAFITCFGNLFVIGMRSFIKAENTTHAMSIKILCCADCLMGVY LFFVGFIDIKYRQYQKYALLWM
ESVQCRLMGFLAMLSTEVS VLLLTYLLEKFLVIVFPFSNIRPGKRQTSVILICIW MAGFLIAVIPFWNK
DYFGNFYKNGVCFPLYDQTEDIGSKGYSLGIFLGVNLLAFLIIVFSYITMFC SIQKTAQTTEVRNCF
GREVAVANRFFFIVFSDAICWIPVFVVKILSLFRVEIPDTMTSWIVIFFLPVNSALNPILYTLTTNFFKD
KLKQLLHKHQKRSIFKIKKKSLSTSIVWIEDSSSLKLGVLNKITL GDSIMKPVS
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_130806

ORF Size: 2262 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_130806.2](#), [NP_570718.1](#)

RefSeq Size: 2838 bp

RefSeq ORF: 2265 bp

Locus ID: 122042

UniProt ID: [Q8WXD0](#)

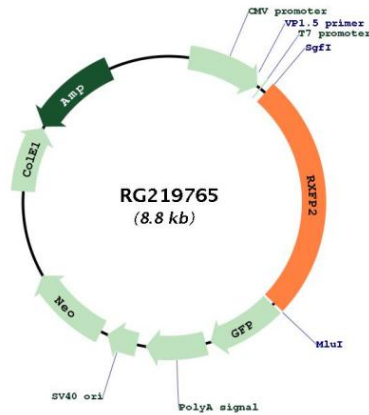
Cytogenetics: 13q13.1

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 RG219765