

Product datasheet for **RG222051**

LHCGR (NM_000233) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LHCGR (NM_000233) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LHCGR
Synonyms:	HHG; LCGR; LGR2; LH/CG-R; LH/CGR; LHR; LHRHR; LSH-R; ULG5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG222051 representing NM_000233
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCAGCGGTTCTCGGCGCTGCAGCTGCTGAAGCTGCTGCTGCTGCAGCCGCCGCTGCCACGAG
 CGCTGCGCGAGGCGCTCTGCCCTGAGCCCTGCAACTGCGTGCCCGACGGCGCCCTGCGCTGCCCCGGCCC
 CACGGCCGGTCTCACTCGACTATCACTTGCCTACCTCCCTGTCAAAGTGATCCCATCTCAAGCTTTCAGA
 GGACTTAATGAGGTCATAAAAATTGAAATCTCTCAGATTGATTCCTGGAAAGGATAGAAGCTAATGCCT
 TTGACAACCTCTCAATTTGCTGAAATACTGATCCAGAACACCAAAAATCTGAGATACATTGAGCCCGG
 AGCATTATAAAATCTCCCGGATAAAATACTTGAGCATCTGTAACACAGGCATCAGAAAGTTTCCAGAT
 GTTACGAAGGCTTCTCCTCTGAATCAAATTTTCATTCTGGAAATTTGTGATAACTTACACATAACCACCA
 TACCAGGAAATGCTTTTCAAGGGATGAATAATGAATCTGTAACACTCAAATATATGAAATGGATTGGA
 AGAAGTACAAAGTCATGCATTCAATGGGACGACTGACTTCACTGGAGCTAAAGGAAAACGTACATCTG
 GAGAAGATGCACAATGGAGCCTTCCGTGGGGCCACAGGGCCGAAAACCTTGGATATTTCTCCACCAAAAT
 TGACGGCCCTGCCGAGCTATGGCCTAGAGTCCATTCAGAGGCTAATTGCCACGTCATCTATTCTCTAAA
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 TCATGGGAAACATGACTGTTCTTTTGTCTCCTGACAAGTCGTTACAAACTTACAGTGCCTCGTTTTCT
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 CAAACCAAGGGCCAGTACTATAACCATGCCATAGACTGGCAGACAGGGAGTGGTGCAGCACTGCTGGCT
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 GCTTCCCATGGATGTGGAAACCACTCTCTCACAAGTCTATATATTAACCATCCTGATTCTCAATGTGGT
 GGCCTTCTCATAATTTGTGCTTGCTACATTAATTTATTTTGCAGTTTCAAACCCAGAATTAATGGCT
 ACCAATAAAGATACAAAGATTGCTAAGAAAATGGCAATCCTCATCTTACCGATTTACCTGCATGGCAC
 CTATCTCTTTTTTGGCATCTCAGCTGCCTTCAAAGTACCTTTATCACAGTAACCAACTCTAAAGTTTT
 ACTGGTCTTTTTTATCCATCAATTTGTGCAATCCATTTCTGTATGCAATATTCACCTAAGACATTC
 CAAAGAGATTTCTTTTCTTTGCTGAGCAAAATTTGGCTGCTGTAACGTCGGGCTGAACCTTATAGAAGGA
 AAGATTTTTCAGCTTACACCTCCAACCTGCAAAAATGGCTTCACTGGATCAAATAAGCCTTCTCAATCCAC
 CTTGAAGTTGCCACATTGCACTGTCAAGGTACAGCTCTCCTAGACAAGACTCGCTACACAGAGTGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG222051 representing NM_000233
Red=Cloning site Green=Tags(s)

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MKQRFSA LQLLKL LLLLQPPLPRALREALCPEPCNCVDPGALRCPGPTAGLTRLSLAYLPVKVIPSQAFR
GLNEVIKIEISQIDSLERIEANAFDNLNLSEILIQNTKNLRYIEPGAFINLPGLKYL SICNTGIRKFPD
VTKVFSSESNFILEICDNLHITIPGNAFQGMNNE SVTLKLYGNGFEEVQSHAFNGTTLTSLELKENVHL
EKMHN GAFRGATGPKTLDISSTKLQALPSYGLESIQRLIATSSYSLKKLPSRETFVNLEATLTYP SHCC
AFRNLP TKEQNF SHSISENF SKQCESTVRKVSNKTLYSSMLAESEL SGWDY EYGFCLPKTPRCAPEPDAF
NPCEDIMGYDFLRVLIWLINILATMGNMTVLFVLLTSRYKLTVP RFLMCNLSFADFCMGLYLLL IASVDS
QTKGQYYNHAIDWQTGSGCSTAGFFTVFAS ELSVYTLTVITLERWHTITYAIHL DQKLR LRHAILMLGG
WLFSSLIAMLPLVGVSNYMKVSI CFPMDVETLSQVYIL TILILNVVAFFI ICACYIKIYFAVRNP ELMA
TNKDTKI AKKMAILIFTDFTCMAPISFFAISA AFKVPLITVTNSKVL LVLFPINSCANPFLY AIFTKTF
QRDFLLLSKFGCKRRAEL YRRKDFSAYTSNCKNGFTGSNKPSQSTLKLSTLHCQGTALLDKTRYTEC
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000233

ORF Size: 2097 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_000233.1](#), [NP_000224.1](#)

RefSeq Size: 2995 bp

RefSeq ORF: 2100 bp

Locus ID: 3973

UniProt ID: [P22888](#)

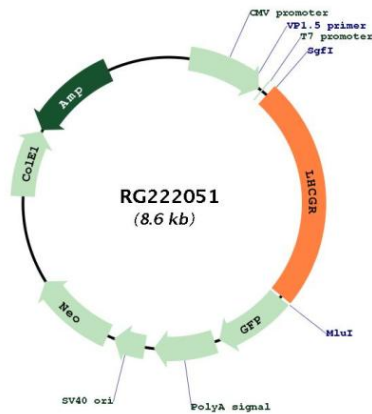
Cytogenetics: 2p16.3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction

Gene Summary: This gene encodes the receptor for both luteinizing hormone and choriogonadotropin. This receptor belongs to the G-protein coupled receptor 1 family, and its activity is mediated by G proteins which activate adenylate cyclase. Mutations in this gene result in disorders of male secondary sexual character development, including familial male precocious puberty, also known as testotoxicosis, hypogonadotropic hypogonadism, Leydig cell adenoma with precocious puberty, and male pseudohermaphroditism with Leydig cell hypoplasia. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG222051