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Product datasheet for RC222051

LHCGR (NM_000233) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LHCGR (NM_000233) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LHCGR
Synonyms:	HHG; LCGR; LGR2; LH/CG-R; LH/CGR; LHR; LHRHR; LSH-R; ULG5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC222051 representing NM_000233
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGCAGCGGTTCTCGGCGCTGCAGCTGCTGAAGCTGCTGCTGCTGCTGCAGCCGCCGCTGCCACGAG
CGCTGCGCGAGGCGCTCTGCCCTGAGCCCTGCAACTGCGTGCCCGACGGCGCCCTGCGCTGCCCCGGCCC
CACGGCCGGTCTCACTCGACTATCACTTGCCTACCTCCCTGTCAAAGTGATCCCATCTCAAGCTTTCAGA
GGACTTAATGAGGTCATAAAAATTGAAATCTCTCAGATTGATTCCCTGGAAAGGATAGAAGCTAATGCCT
TTGACAACCTCCTCAATTTGTCTGAAATACTGATCCAGAACACCAAAAATCTGAGATACATTGAGCCCGG
AGCATTTATAAATCTTCCCGGATTAAAATACTTGAGCATCTGTAACACAGGCATCAGAAAGTTTCCAGAT
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TACCAGGAAATGCTTTTCAAGGGATGAATAATGAATCTGTAACACTCAAACTATATGGAAATGGATTTGA
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TGCAGGCCCTGCCGAGCTATGGCCTAGAGTCCATTCAGAGGCTAATTGCCACGTCATCCTATTCTCTAAA
AAAATTGCCATCAAGAGAAACATTTGTCAATCTCCTGGAGGCCACGTTGACTTACCCCAGCCACTGCTGT
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AATCCCTGTGAAGACATTATGGGCTATGACTTCCTTAGGGTCCTGATTTGGCTGATTAATATTCTAGCCA
TCATGGGAAACATGACTGTTCTTTTTGTTCTCCTGACAAGTCGTTACAAACTTACAGTGCCTCGTTTTCT
CATGTGCAATCTCTCCTTTGCAGACTTTTGCATGGGGCTCTATCTGCTGCTCATAGCCTCAGTTGATTCC
CAAACCAAGGGCCAGTACTATAACCATGCCATAGACTGGCAGACAGGGAGTGGGTGCAGCACTGCTGGCT
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ACTGGTTCTTTTTTATCCCATCAATTCTTGTGCCAATCCATTTCTGTATGCAATATTCACTAAGACATTC
CAAAGAGATTTCTTTCTTTTGCTGAGCAAATTTGGCTGCTGTAAACGTCGGGCTGAACTTTATAGAAGGA
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CTTGAAGTTGTCCACATTGCACTGTCAAGGTACAGCTCTCCTAGACAAGACTCGCTACACAGAGTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222051 representing NM_000233
Red=Cloning site Green=Tags(s)

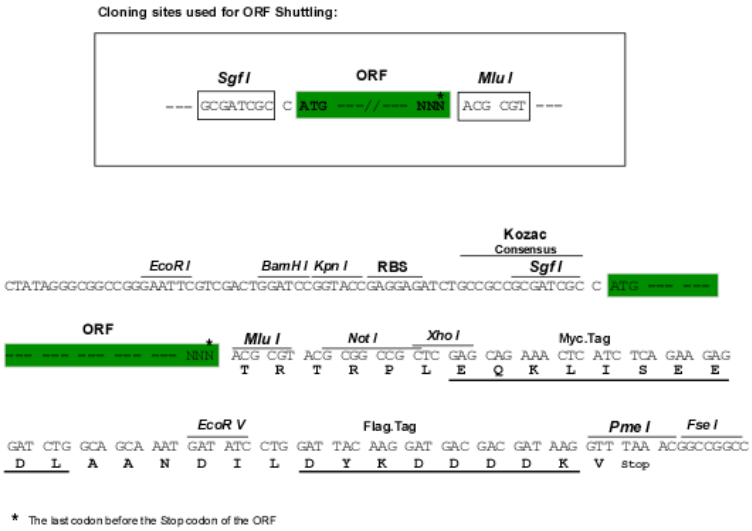
MKQRFSALQLLKLLLLLQPPLPRALREALCPEPCNCVPDGALRCPGPTAGLTRLSLAYLPVKVIPSQAFR
GLNEVIKIEISQIDSLERIEANAFDNLLNLSEILIQNTKNLRYIEPGAFINLPGLKYLSICNTGIRKFPD
VTKVFSSESNFILEICDNLHITTIPGNAFQGMNNESVTLKLYGNGFEEVQSHAFNGTTLTSLELKENVHL
EKMHNGAFRGATGPKTLDISSTKLQALPSYGLESIQRLIATSSYSLKKLPSRETFVNLLEATLTYPSHCC
AFRNLPTKEQNFSHSISENFSKQCESTVRKVSNKTLYSSMLAESELSGWDYEYGFCLPKTPRCAPEPDAF
NPCEDIMGYDFLRVLIWLINILAIMGNMTVLFVLLTSRYKLTVPRFLMCNLSFADFCMGLYLLLIASVDS
QTKGQYYNHAIDWQTGSGCSTAGFFTVFASELSVYTLTVITLERWHTITYAIHLDQKLRLRHAILIMLGG
WLFSSLIAMLPLVGVSNYMKVSICFPMDVETTLSQVYILTILILNVVAFFIICACYIKIYFAVRNPELMA
TNKDTKIAKKMAILIFTDFTCMAPISFFAISAAFKVPLITVTNSKVLLVLFYPINSCANPFLYAIFTKTF
QRDFFLLLSKFGCCKRRAELYRRKDFSAYTSNCKNGFTGSNKPSQSTLKLSTLHCQGTALLDKTRYTEC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8001_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000233

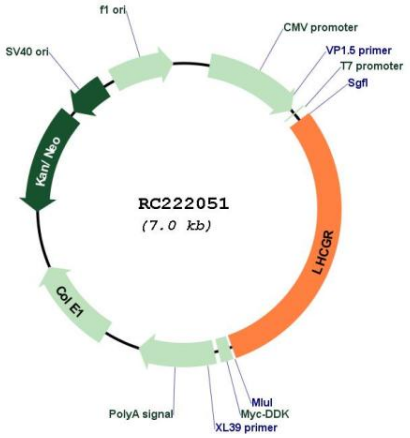
ORF Size: 2097 bp

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
MW:	78.5 kDa
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 pseudohermaphtoditism with Leydig cell hypoplasia. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC222051