

Product datasheet for **SC300031**

LHCGR (NM_000233) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LHCGR (NM_000233) Human Untagged Clone
Tag:	Tag Free
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)



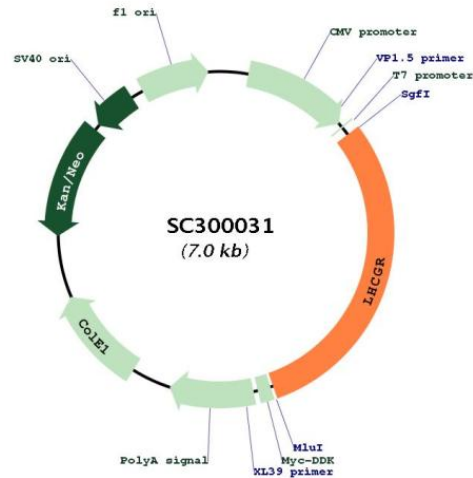
[View online »](#)

Fully Sequenced ORF: >SC300031 representing NM_000233.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAAGCAGCGGTTCTCGGCGCTGCAGCTGCTGAAGCTGCTGCTGCTGCAGCCGCCGCTGCCACGA
CGCTGCGCGAGGCGCTCTGCCCTGAGCCCTGCAACTGCGTGCCGACGCGGCCCTGCGCTGCCCGGC
CCACGGCCGGTCTCACTCGACTACACTTGCCTACCTCCTGTCAAAGTGATCCCATCTCAAGCTTTC
AGAGGACTTAATGAGGTCAAAAAATTGAAATCTCTCAGATTGATTCCCTGGAAAGGATAGAAGCTAAT
GCCTTTGACAACCTCCTCAATTTGTCTGAAATACTGATCCAGAACACAAAAATCTGAGATACATTGAG
CCCGGAGCATTTATAAATCTTCCCGATTAATAACTTGAGCATCTGTAACACAGGCATCAGAAAGTTT
CCAGATGTTACGAAGGTCTTCTCCTCTGAATCAAATTTCACTTCTGGAAATTTGTGATAACTTACACATA
ACCACCATAACCAGGAAATGCTTTTCAAGGGATGAATAATGAATCTGTAACACTCAAATATATGAAAT
GGATTTGAAGAAGTACAAAGTCATGCATCAATGGGACGACACTGACTTCACTGGAGCTAAAGGAAAAC
GTACATCTGGAGAAGATGCAAAATGGAGCCTTCCGTGGGGCCACAGGGCCGAAAACCTTGGATATTTCT
TCCACCAAATTCAGGCCCTGCCGAGCTATGGCCTAGAGTCCATTAGAGGCTAATTGCCAGTCATCC
TATTCTCTAAAAAATTGCCATCAAGAGAAACATTTGTCAATCTCCTGGAGGCCACGTTGACTTACCCC
AGCCACTGCTGTGCTTTTAGAACTTGCCAACAAAAGAACAGAATTTTTCACATTCCATTCTGAAAAC
TTTTCCAAACAATGTGAAAGCACAGTAAGGAAAGTGAATAACAAAACACTTTATTTCTCCATGCTTGCT
GAGAGTGAAGTGAAGTGGCTGGGACTATGAATATGGTTTCTGCTTACCCAAGACACCCCGATGTGCTCCT
GAACCAGATGCTTTAATCCCTGTGAAGATATTATGGGCTATGACTTCTTAGGGTCTGATTTGGCTG
ATTAATATTCTAGCCATCATGGGAAACATGACTGTTCTTTTTGTCTCCTGACAAGTCGTTACAACT
ACAGTGCCTCGTTTTCTCATGTGCAATCTCCTTTGACAGACTTTGTCATGGGGCTCATCTGCTGCTC
ATAGCCTCAGTTGATTCCCAAACCAAGGGCCAGTACTATAACCATGCCATAGACTGGCAGACAGGGAGT
GGGTGCAGCACTGCTGGCTTTTTCACTGTATTCGCAAGTGAACTTTCTGTCTACACCCTCACCGTCATC
ACTCTAGAAAGATGGCACACCATCACCTATGCTATTCACCTGGACAAAAGCTGCGATTAAGACATGCC
ATTCTGATTATGCTTGGAGGATGGCTCTTTTCTCTAATTGCTATGTTGCCCTTGTCCGGTGCAGC
AATTACATGAAGTCAAGTATTTGCTTCCCATGGATGTGGAAACACTCTCTCACAAGTCTATATATTA
ACCATCCTGATTCTCAATGTGGTGGCCTTCTTCATAATTTGTGCTTGCTACATTAATAATTTATTTGCA
GTTTCGAAACCCAGAATTAATGGCTACCAATAAAGATACAAGATTGCTAAGAAAAATGGCAATCCTCATC
TTCACCGATTTACCTGCATGGCACCTATCTCTTTTTTGGCCATCTCAGCTGCCTCAAAGTACCTCTT
ATCACAGTAACCAACTCTAAAGTTTACTGTTCTTTTTATCCCATCAATTCTGTGCCAATCCATTT
CTGTATGCAATATTCATAAGACATTCCAAGAGATTTCTTTCTTTGCTGAGCAAAATTTGGCTGCTGT
AAACGTCGGGCTGAACCTTATAGAAGGAAAGATTTTTCAGCTTACACCTCCAACCTGCAAAAATGGCTTC
ACTGGATCAAATAAGCCTTCTCAATCCACCTTGAAGTTGTCCACATTGCACTGTCAAGGTACAGCTCTC
CTAGACAAGACTCGTACACAGAGTGTTAA
ACGGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_000233

Insert Size: 2100 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_000233.3](#)

RefSeq Size: 3093 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:	78.6 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 pseudohermaphroditism with Leydig cell hypoplasia. [provided by RefSeq, Jul 2008]