

Product datasheet for **RC218811**

GNRHR (NM_001012763) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GNRHR (NM_001012763) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GNRHR
Synonyms:	GNRHR1; GRHR; HH7; LHRHR; LRHR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218811 representing NM_001012763 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAACAGTGCCTCTCCTGAACAGAATCAAATCACTGTTTCAGCCATCAACAACAGCATCCCCTGA
TGCAGGGCAACCTCCCCTCTGACCTTGCTGGAAAGATCCGAGTGACGGTTACTTTCTCCTTTTTCT
GCTCTCTGCGACCTTTAATGCTTCTTTCTGTTGAAACTCAGAAGTGGACACAGAAGAAAGAGAAAGGG
AAAAAGCTCTCAAGAATGAAGCTGCTCTTAAAACATCTGACCTTAGCCAACCTGTTGGAGACTCTGATTG
TCATGCCACTGGATGGGATGTGGAACATTACAGTCCAATGGTATGCTGGAGAGTTACTCTGCAAAGTTCT
CAGTTATCTAAAGCTTTTCTCCATGTATGCCCCAGCCTTCATGATGGTGGTGATCAGCCTGGACCGCTCC
CTGGCTATCACGAGGCCCTAGCTTTGAAAAGCAACAGCAAAGTCGGACAGTCCATGGTTGGCCTGGCCT
GGATCCTCAGTAGTGTCTTTGCAGGACCACAGCTGCCTCTTCATCATCCCTCTTTTCATCATGCTGATCT
GCAATGCAAAAATCATCTTCACCCTGACACGGGTCCTTCATCAGGACCCACGAACTACAACCTGAATCA
GTCCAAGAACAATATACCAAGAGCACGGCTGAAGACTCTAAAAATGACGGTTGCATTTGCCACTTCATT
ACTGTCTGCTGGACTCCCTACTATGTCCTAGGAATTTGGTATTGGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC218811 representing NM_001012763
Red=Cloning site Green=Tags(s)

MANSASPEQNQHCSAINNSIPLMQGNLPTLTL SGKIRVTVTFFLFLLSATFNASFL LKLQKWTQKKEKG
 KKL SRMKLL LKHLTLANLLET L I V MPLDGMWNITVQWYAGELLCKVL SYLKLFSMYAPAFMMVVISLDRS
 LAITRPLALKS NSKVQSMVGLAWILSSVFAGPQLPHHPSFHADLQCKNHLHPDTGPSSGPPRTTTS
 VQEYTKSTAEDSKNDGCICHFIYCLLDSLLCPRNLVLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1516_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001012763

ORF Size: 747 bp

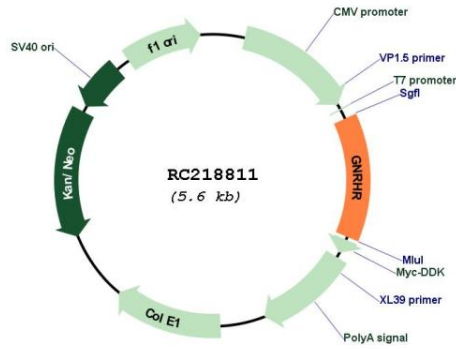
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_001012763.2
RefSeq Size:	5715 bp
RefSeq ORF:	750 bp
Locus ID:	2798
UniProt ID:	P30968
Cytogenetics:	4q13.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	GnRH signaling pathway, Neuroactive ligand-receptor interaction
MW:	27.5 kDa
Gene Summary:	<p>This gene encodes the receptor for type 1 gonadotropin-releasing hormone. This receptor is a member of the seven-transmembrane, G-protein coupled receptor (GPCR) family. It is expressed on the surface of pituitary gonadotrope cells as well as lymphocytes, breast, ovary, and prostate. Following binding of gonadotropin-releasing hormone, the receptor associates with G-proteins that activate a phosphatidylinositol-calcium second messenger system. Activation of the receptor ultimately causes the release of gonadotropic luteinizing hormone (LH) and follicle stimulating hormone (FSH). Defects in this gene are a cause of hypogonadotropic hypogonadism (HH). Alternative splicing results in multiple transcript variants encoding different isoforms. More than 18 transcription initiation sites in the 5' region and multiple polyA signals in the 3' region have been identified for this gene. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC218811