

Specifications:

Gene:	hGNRHR
Accession:	NP_000397
Insert size:	1000bp
Concentration:	10µg at 0.2µg/µL

hGNRHR cDNA Plasmid

GNRHR gonadotropin-releasing hormone receptor [*Homo sapiens*]

Also known as: GRHR; LRHR; LHRHR; GNRHR1

Summary:

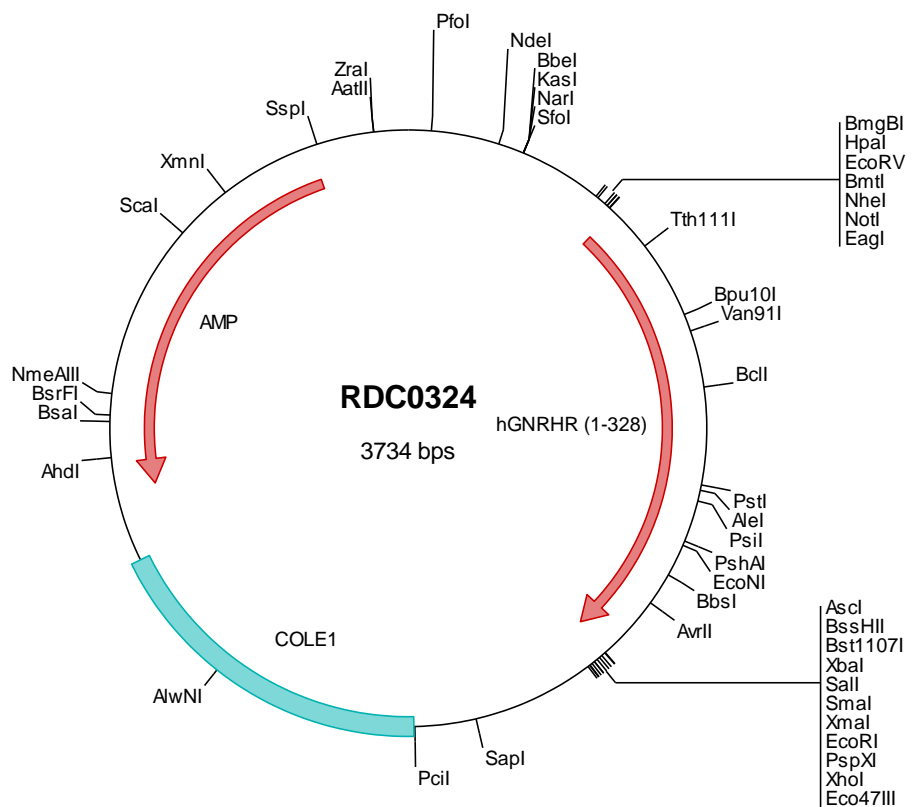
GNRHR is the receptor for type 1 gonadotropin-releasing hormone. GNRHR is a member of the seven-transmembrane, G protein-coupled receptor (GPCR) family. It is expressed on the surface of pituitary gonadotrope cells as well as lymphocytes, breast, ovary, and prostate. Following binding of gonadotropin-releasing hormone, GNRHR associates with G proteins that activate a phosphatidylinositol-calcium second messenger system. Activation of GNRHR ultimately causes the release of gonadotropic luteinizing hormone (LH) and follicle stimulating hormone (FSH). Defects in GNRHR are a cause of hypogonadotropic hypogonadism (HH).

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.





> RDC0324 Plasmid DNA Sequence

```

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcagctcccc gagacggtea cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taaggccagt ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccgggt ttcccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggcaaa caagctctcc tgaacagaat caaaataact gttcagccat
501 caacaacagc atcccaactga tgcagggcaa cctcccact ctgacctgt ctggaaagat ccgagtgaag gttactttct tctttttct gctctctgag
601 accttaaatg cttctttctt gttgaaactt cagaagtggg cacagaagaa agagaaaggg aaaaagctct caagaatgaa gctgctctta aaacatctga
701 ccttagcaaa cctgttggag actotgattg tcatgccact ggatgggatg tggaaacatta cagtccaatg gtatgctgga gagttactct gcaaaagtct
801 cagttatcta aagcttttct ccatgtatgc cccagccttc atgatgtgtg tgatcagcct ggaccgctcc ctggctatca cgaaggccct agctttgaaa
901 agcaaacagca aagtoggaca gtccatggtt ggctggcct ggatcctcag tagtgtcttt gaggaccac agttatacat cttcaggatg attcattctag
1001 cagacagctc tggacagaca aaagttttct cccaatgtgt aacacactgc agtttttcc aatgggtggca tcaagcattt tataactttt tcacctcag
1101 ctgctcttcc atcatcctc ttttcatcat gotgatctgc aatgcaaaaa tcatcttcc cctgacacgg gtccttccac aggaccccca cgaactacaa
1201 ctgaaatcagt ccaagaacaa tataccaaga gcacggctga agaactctaa aatgacgggt gaattggca cttcatttac tgtctgtgag actccctact
1301 atgtcctagg aatttggatg tggtttgatc ctgaaatgtt aaacaggttg tcagaccag taatacactt cttctttctc tttgctttt taaccocatg
1401 ctttgatcca cttatctatg gatatttttc tctgtaaaagg cgcgccagta tactctagag tcgacaccg gggaattcct cgaagcctcg tctctagctt
1501 ggcgtaatac tggatcatagc tgtttcctgt gtgaaatgtt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa agcctggggt
1601 gcctaatgag tgagctaac caccataaatt gcgttgcct cactgcccgc ttccagctg ggaacctgt cgtgacagct gcattaatga atcggccaac
1701 gcgcggggag aggcggtttg cgtattgggc gctcttccgc ttccctcctc actgactcgc tgcgctcggg cggtcggctg cggcgagcgg taccagctca
1801 ctcaaaggcg gtaatacggg tatccacaga atcaggggat aaccgaggaa agaactgtgt agcaaaaggc cagcaaaagg ccaggaaccg taaaaaggcc
1901 gcgttgcctg cgtttttcca taggctccc cccctgacg agcatcaca aaatcgacgc tcaagtcaga ggtggcgaaa cccgacagga ctataaagat
2001 accagcgttt tccccctgga agctccctcg tgcgctctcc tgttccgacc ctgccgctta ctcgctcctt ctcctctcgg gaagcgtggc
2101 gctttctcaa tgctcagcct gtaggatctc cagttcgttg tagtgcctt gctccaagct gggctgtgtg cacgaacccc ccgttcagcc cgaccgctgc
2201 gccttatccg gtaactatcg tcttgagctc aaccggtaa gacacgact atcgccactg gcagcagcca ctggtaacag gattagcaga gcgaggtatg
2301 taggcggtgc tacagagttc ttgaaagtgt ggcctaacta cggctacact agaaggacag tatttgggat ctgctctctg ctgaagccag ttacctcgg
2401 aaaaagagtt ggtagctctt gatccggcaa acaaacacc gctggtagcg tgggtttttt tgtttgcaag cagcagatta cgcgcagaaa aaaaggatct
2501 caagaagatc ctttgatctt tctacagggg tctgacgctc agtggaaagaa aaactcagct taagggattt tggatcatgag attatcaaaa aggatcttca
2601 cctagatcct tttaaattaa aaatgaagtt ttaaatcaat ctaaagtata tatgagtaaa cttggtctga cagttaccaa tgcttaatca gtgagcacc
2701 tatctcagcg atctgtctat ttgcttcatc catagttgcc tgactccccg tcgtgtagat aactacgata cgggagggct taccatctgg cccagtgct
2801 gcaatgatac cgcgagacc acgctcaccg gctccagatt taccagcaat aaaccagcca gccggaagg ccgagcgcag aagtggctct gcaactttat
2901 ccgctccat ccagctatatt aattgttggc gggaaagctag agtaagtagt tcgccagtta atagtttgcg caacgttgtt gcaattgcta caggcatcgt
3001 ggtgtcagcg tcgtcgtttg gtatggcttc attcagctcc ggttcccaac gatcaaggcg agttacatga tccccatgt tgtcaaaaa agcggttagc
3101 tccttgggtc ctccgatcgt tgcagaagt aagtggccg cagtgttatc actcatggtt atggcagcac tgcataatc tcttactgtc atgccatccg
3201 taagatgctt ttctgtgact ggtgagtact caaccaagtc attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtcaa tacggataaa
3301 taccgcgcca catagcagaa ctttaaaagt gctcatcatt ggaaaacggt ctcggggcg aaaactctca aggatcttac cgctgttgag atccagttcg
3401 atgtaaccca ctggtgacc caactgatc tcagatctt ttaactttcc cagctgttct gggtagcaaa aaacaggaag gcaaaatgcc gcaaaatgag gcaaaatgag
3501 gaataaggcg gacacggaaa tgttgaatac tcatactctt cctttttcaa tattattgaa gcatttatca gggttattgt ctcatgagcg gatataatg
3601 tgaatgtatt tagaaaaata acaaaatagg ggttccgcgc acatttcccc gaaaagtgc acctgacgct taagaaacca ttattatcat gacattaacc
3701 tataaaaaata ggcgtatcac gaggcccttt cgtc

```

> RDC0324 Translated Insert Sequence

```

1 mansaspeqn qnhcsainns iplmqgnlpt ltlsgkirvt vtfflfllsa tfnasflkl gkwtqkkekg kklrmlkl1 khltlanlle tliivpldgm
101 whitvqwyag ellckvlsl klfsmyapaf mmvvisldrs laitrplalk snskvgqsmv glawilssvf agpqliyfrm ihladssgqt kvfsqcvthc
201 sfsqwqhaf ynfftsclf iiplfmllic nakiiftltr vlhqdphejq lnsknipr arkltkmtv afatsftvcw tpyyvlgiwy wfdpemlnrl
301 sdpvnhfffl faflnpcfdp liyygfs1

```