# *r*GNRHR VersaClone cDNA

**Catalog Number: RDC0611**

## Specifications:

| | |
|---|---|
| Gene: | *r*GNRHR |
| Accession: | NP_112300 |
| Insert size: | 997bp |
| Concentration: | 10µg at 0.2µg/µL |

## 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

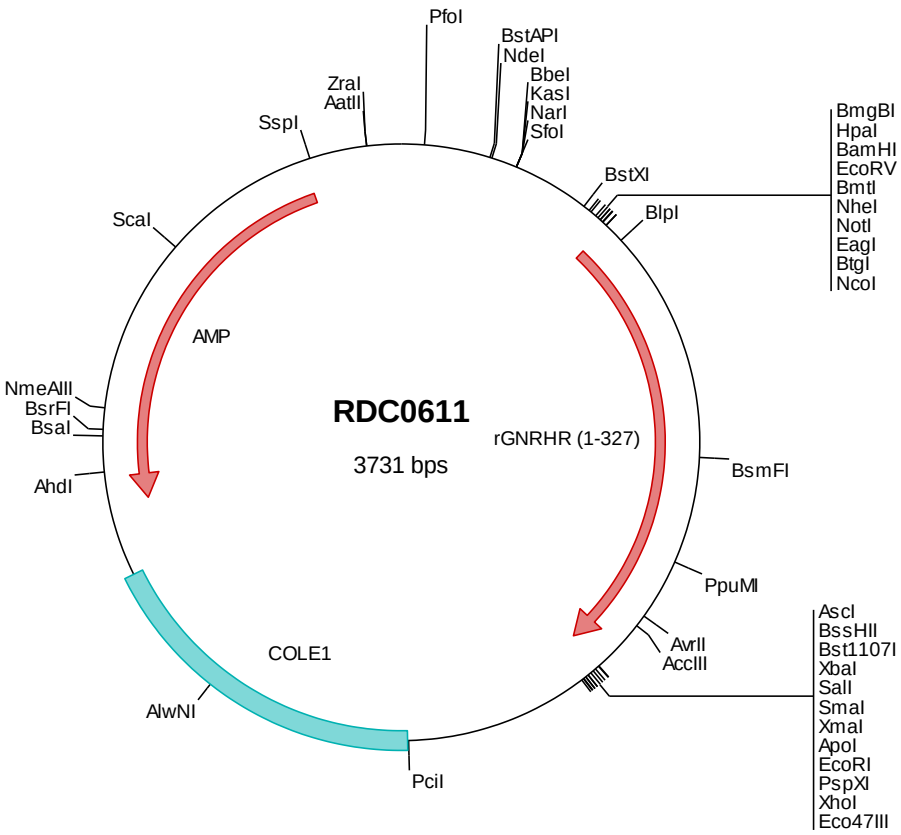
| | |
|---|---|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5 |
| Shipping | Ships at ambient temperature |
| Stability | 1 year from date of receipt when stored at -20°C to -80°C |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

# *r*GNRHR cDNA Plasmid

**Gnrhr gonadotropin releasing hormone receptor [ *Rattus norvegicus* ]**

**Also known as:** GH1; Lhrhr

**Summary:**
GNRHR is the receptor for type 1 gonadotropin-releasing hormone. It is a member of the seven-transmembrane, G-protein coupled receptor (GPCR) family. GNRHR is expressed on the surface of pituitary gonadotrope cells as well as lymphocytes, breast, ovary, and prostate. Activation of GNRHR causes the release of gonadotropic luteinizing hormone (LH) and follicle stimulating hormone (FSH). Defects in this GNRHR are a cause of hypogonadotropic hypogonadism (HH).




FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

## > RDC0611 Plasmid DNA Sequence

```
   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggctaaca atgcgtctct tgagcaggac caaaatcact gctcagccat
 501  caacaacagc atccccctga cacagggcaa gctcccgact ctaaccttat ctggaaagat ccgagtgacg gtgactttct tccttttcct actctctact
 601  gccttcaatg cctctttctt ggtaaagctg cagaggtgga cccagaagag gaagaaagga aaaaagctct caaggatgaa ggtgctttta aagcatttga
 701  ccttagccaa cctccttgag actctaatcg tcatgccgct ggatgggatg tggaacatca ctgttcagtg gtatgctgga gagttccttt gcaaagttct
 801  cagctatctg aagctcttct ctatgtatgc cccagccttc atgatggtgg tgattagcct ggatcgctcc ctggccgtca ctcagccctt agctgtccaa
 901  agcaagagca agcttgaacg gtctatgacc agcctggcct ggattctcag cattgtcttt gcgggaccac agttatatat cttcaggatg atctacctag
1001  ccgacggctc tgggccagca gttttctcgc aatgtgtgac ccactgcagc tttccgcaat ggtggcatga agccttctac aacttttca ccttcagctg
1101  cctgttcatc atccctcttc tcatcatgct aatctgcaat gccaaaatca tcttcgccct cacacgagtc cttcatcagg acccacgcaa actacagctg
1201  aatcaatcca agaataatat cccaagagca cggctgagaa ctctaaagat gacagtggca tttgccacct cctttgtcat ctgctggact ccctactacg
1301  tcctaggaat ctggtactgg tttgatccgg aaatgttaaa cagggtgtca gagccagtca atcacttctt ctttctcttt gctttcctaa acccgtgctt
1401  cgacccactt atatatgggt atttctcttt gtaaaggcgc gccagtatac tctagagtcg acacccgggg aattcctcga gcgctcgtct ctagcttggc
1501  gtaatcatgg tcatagctgt ttcctgtgtg aaattgttat ccgctcacaa ttccacacaa catacgagcc ggaagcataa agtgtaaagc ctggggtgcc
1601  taatgagtga gctaactcac attaattgcg ttgcgctcac tgcccgcttt ccagtcggga aacctgtcgt gccagctgca ttaatgaatc ggccaacgcg
1701  cggggagagg cggtttgcgt attgggcgct cttccgcttc ctcgctcact gactcgctgc gctcggtcgt tcggctgcgg cgagcggtat cagctcactc
1801  aaaggcggta atacggttat ccacagaatc aggggataac gcaggaaaga acatgtgagc aaaaggccag caaaaggcca ggaaccgtaa aaaggccgcg
1901  ttgctggcgt ttttccatag gctccgcccc cctgacgagc atcacaaaaa tcgacgctca agtcagaggt ggcgaaaccc gacaggacta taaagatacc
2001  aggcgtttcc ccctggaagc tccctcgtgc gctctcctgt tccgaccctg ccgcttaccg gatacctgtc cgcctttctc ccttcgggaa gcgtggcgct
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2301  gcggtgctac agagttcttg aagtggtggc ctaactacgg ctacactaga aggacagtat ttggtatctg cgctctgctg aagccagtta ccttcggaaa
2401  aagagttggt agctcttgat ccggcaaaca aaccaccgct ggtagcggtg gttttttttgt ttgcaagcag cagattacgc gcagaaaaaa aggatctcaa
2501  gaagatcctt tgatcttttc tacggggtct gacgctcagt ggaacgaaaa ctcacgttaa gggattttgg tcatgagatt atcaaaaagg atcttcacct
2601  agatcctttt aaattaaaaa tgaagtttta aatcaatcta aagtatatat gagtaaactt ggtctgacag ttaccaatgc ttaatcagtg aggcacctat
2701  ctcagcgatc tgtctatttc gttcatccat agttgcctga ctccccgtcg tgtagataac tacgatacgg gagggcttac catctggccc cagtgctgca
2801  atgataccgc gagacccacg ctcaccggct ccagatttat cagcaataaa ccagccagcc ggaagggccg agcgcagaag tggtcctgca actttatccg
2901  cctccatcca gtctattaat tgttgccggg aagctagagt aagtagttcg ccagttaata gtttgcgcaa cgttgttgcc attgctacag gcatcgtggt
3001  gtcacgctcg tcgtttggta tggcttcatt cagctccggt tcccaacgat caaggcgagt tacatgatcc cccatgttgt gcaaaaaagc ggttagctcc
3101  ttcggtcctc cgatcgttgt cagaagtaag ttggccgcag tgttatcact catggttatg gcagcactgc ataattctct tactgtcatg ccatccgtaa
3201  gatgcttttc tgtgactggt gagtactcaa ccaagtcatt ctgagaatag tgtatgcggc gaccgagttg ctcttgcccg gcgtcaatac gggataatac
3301  cgcgccacat agcagaactt taaaagtgct catcattgga aaacgttctt cggggcgaaa actctcaagg atcttaccgc tgttgagatc cagttcgatg
3401  taacccactc gtgcacccaa ctgatcttca gcatcttttа ctttcaccag cgtttctggg tgagcaaaaa caggaaggca aaatgccgca aaaaagggaa
3501  taagggcgac acggaaatgt tgaatactca tactcttcct ttttcaatat tattgaagca tttatcaggg ttattgtctc atgagcggat acatatttga
3601  atgtatttag aaaaataaac aaataggggt tccgcgcaca tttccccgaa aagtgccacc tgacgtctaa gaaaccatta ttatcatgac attaacctat
3701  aaaaataggc gtatcacgag gccctttcgt c
```

## > RDC0611 Translated Insert Sequence

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 101  wnitvqwyag eflckvlsyl klfsmyapaf mmvvisldrs lavtqplavq sksklersmt slawilsivf agpqlyifrm iyladgsgpa vfsqcvthcs
 201  fpqwwheafy nfftfsclfi ipllimlicn akiifaltrv lhqdprklql nqsknnipra rlrtlkmtva fatsfvicwt pyyvlgiwyw fdpemlnrvs
 301  epvnhffflf aflnpcfdpl iygyfsl
```