# *m*FSHR VersaClone cDNA

**Catalog Number: RDC0461**

## Specifications:

| | |
|---|---|
| Gene: | *m*FSHR |
| Accession: | BAB30351 |
| Insert size: | 2091bp |
| 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

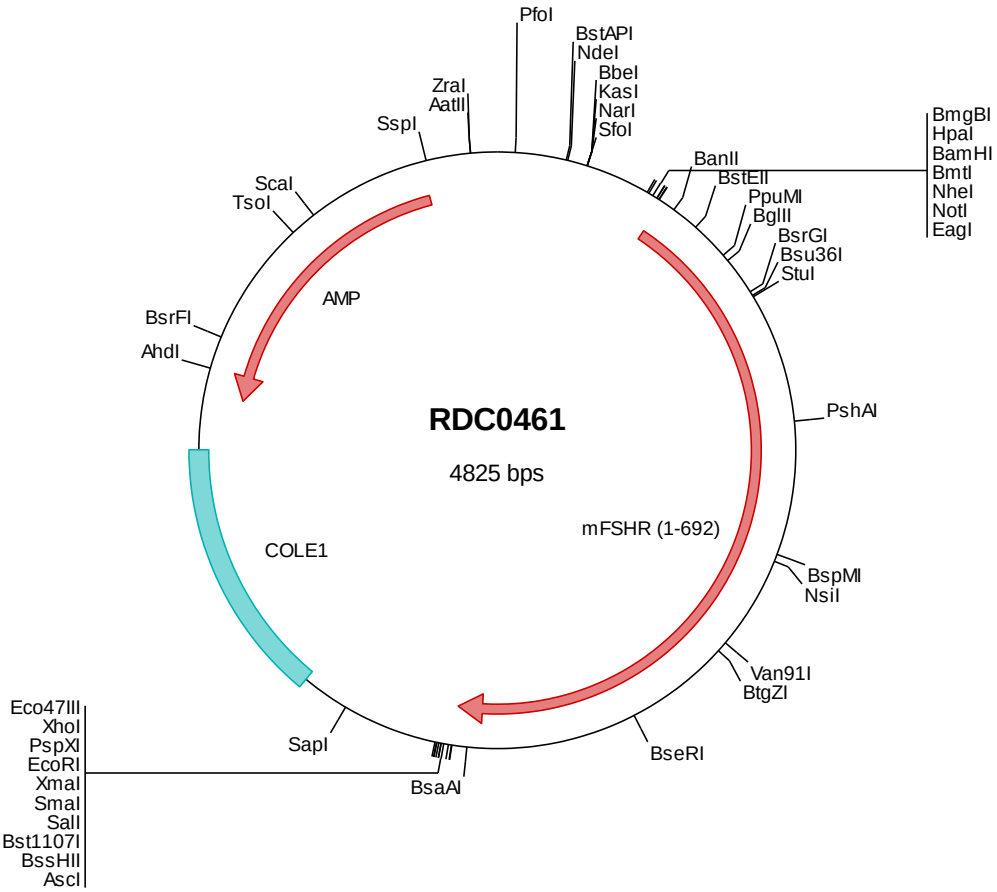
| | |
|---|---|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5 |
| Shipping | Ships at ambient temperature |
| Stability | 1 year from date of receipt when stored at -20°C to -80°C |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

# *m*FSHR cDNA Plasmid

**Fshr follicle stimulating hormone receptor [ *Mus musculus* ]**


**Summary:**

FSHR belongs to family 1 of the G protein-coupled receptors. It is the receptor for follicle stimulating hormone and functions in gonad development. Follicle stimulating hormone acts through receptors on Sertoli cells to stimulate spermatogenesis while androgens promote testis growth on Sertoli cells, Leydig cells and peritubular myoid cells. Mutations in FSHR cause ovarian dysgenesis type 1, and also ovarian hyperstimulation syndrome. Alternative splicing results in multiple transcript variants.


FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

## > RDC0461 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 atggccttgc tcctggtctc cttgctggca ttcttgggct cgggatctgg
 501  atgtcatcac tggctgtgtc attgctctaa cagggtcttc ctctgccaag atagcaaggt gaccgagatt ccgcccgacc tcccccggaa cgccattgaa
 601  ctgagatttg tgctcaccaa gcttcgagtc attccaaaag gatcattttc tggatttggg gacctggaga aaatagagat ctctcagaat gatgtcttgg
 701  aggtaataga ggcagatgtg ttctccaacc tacccaactt gcatgaaatt aggattgaaa aggctaacaa tctgctgtac atcaaccctg aggccttcca
 801  gaatcttccc agtctccgat atctgttaat atccaacaca ggcattaaac acttgccagc ctttcacaag atccagtctc tccaaaaggt tttattagac
 901  attcaagata acataaacat ccacatcatt gccaggaact ccttcatggg actgagcttt gaaagtgtaa ttctatggct gaataagaat gggattcaag
1001  aaatacacaa ctgtgcattc aacggaaccc agctagatga actgaatcta agcgataaca ataatttgga agaattgcct gatgatgttt tccagggagc
1101  ctctgggcca gtcgttttag acatctcaag gacaaaggtc tattccctgc ccaaccatgg cttagaaaat ctgaagaagt tgagggccag gtcaacatac
1201  cgcttgaaaa agctccctag tctagacaag tttgtcatgc tcattgaggc cagccttacc taccccagtc actgctgtgc ctttgcaaac tggaggcggc
1301  aaacctctga acttcatcca atttgcaaca agtctatttc aaggcaagat attgatgata tgactcagcc tggggatcag agagtctctc tcgtagatga
1401  tgaacccagt tatggaaaag gatctgacat gttgtatagt gaatttgact atgacttatg caatgaattt gttgatgtga cctgctcgcc aaagccagat
1501  gcatttaatc catgtgaaga catcatgggg tacaacatcc tcagagtctt gatatggttt atcagcatcc tggccatcac tgggaacacc acagtgctgg
1601  tggtcctgac cacaagccaa tacaaactca ctgtgccccg gttccttatg tgtaacctcg cctttgctga tctttgcatt gggatctact tgctacttat
1701  agcctcagtt gatatccata ctaagagcca gtaccacaat tacgccattg actggaaaac aggagcaggc tgcgatgccg ctggcttttt cactgtcttt
1801  gccagtgaac tgtcagtcta cacattggca gccataaccc tagaaagatg gcataccatc acacatgcca tgcaactgga atgcaaggta cagctctgcc
1901  atgctgccag catcatggtg ctgggctggg cctttgcctt tgcggctgct ctcttcccca tctttggcat cagtagctac atgaaagtga gcatctgcct
2001  gcccatggat atcgacagcc ctttgtcgca gctgtatgtt atggccctcc tcgtactcaa cgccctggcc tttgtggtca tctgtggttg ctacacccac
2101  atctacctca cagtgaggaa tcctaacatt gtgtcctcgt caagagacac caagattgcc aagcgcatgg ccacactcat cttcacggac tttctctgca
2201  tggccccaat tttattcttt gccatttccg cctccctcaa ggtgcccctc atcactgtgt ccaaggccaa gatcctccta gttctgttct accccatcaa
2301  ttcttgtgcc aatcctttcc tctatgccat tttcaccaag aacttccgca gggacttctt cgtcctgatg agcaagtttg gctgttatga ggtgcaagcc
2401  cagatttaca agacagaaac ctcatctatt acccacaact tccactccag aaagaatccc tgttcctcgg ctcccagagt caccaatagt tacgtgcttg
2501  tccctctaaa tcattcagtc cagaactaag gcgcgccagt atactctaga gtcgacaccc ggggaattcc tcgagcgctc gtctctagct tggcgtaatc
2601  atggtcatag ctgtttcctg tgtgaaattg ttatccgctc acaattccac acaacatacg agccggaagc ataaagtgta aagcctgggg tgcctaatga
2701  gtgagctaac tcacattaat tgcgttgcgc tcactgcccg ctttccagtc gggaaacctg tcgtgccagc tgcattaatg aatcggccaa cgcgcgggga
2801  gaggcggttt gcgtattggg cgctcttccg cttcctcgct cactgactcg ctgcgctcgg tcgttcggct gcggcgagcg gtatcagctc actcaaaggc
2901  ggtaatacgg ttatccacag aatcagggga taacgcagga aagaacatgt gagcaaaagg ccagcaaaag gccaggaacc gtaaaaaggc cgcgttgctg
3001  gcgtttttcc ataggctccg ccccccctgac gagcatcaca aaaatcgacg ctcaagtcag aggtggcgaa acccgacagg actataaaga taccaggcgt
3101  ttcccccctgg aagctccctc gtgcgctctc ctgttccgac cctgccgctt accggatacc tgtccgcctt tctcccttcg ggaagcgtgg cgctttctca
3201  atgctcacgc tgtaggtatc tcagttcggt gtaggtcgtt cgctccaagc tgggctgtgt gcacgaaccc cccgttcagc ccgaccgctg cgccttatcc
3301  ggtaactatc gtcttgagtc caacccggta agacacgact tatcgccact ggcagcagcc actggtaaca ggattagcag agcgaggtat gtaggcggtg
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3501  tggtagctct tgatccggca aacaaaccac cgctggtagc ggtggttttt ttgtttgcaa gcagcagatt acgcgcagaa aaaaaggatc tcaagaagat
3601  cctttgatct tttctacggg gtctgacgct cagtggaacg aaaactcacg ttaagggatt ttggtcatga gattatcaaa aaggatcttc acctagatcc
3701  ttttaaatta aaaatgaagt tttaaatcaa tctaaagtat atatgagtaa acttggtctg acagttacca atgcttaatc agtgaggcac ctatctcagc
3801  gatctgtcta tttcgttcat ccatagttgc ctgactcccc gtcgtgtaga taactacgat acgggagggc ttaccatctg gccccagtgc tgcaatgata
3901  ccgcgagacc cacgctcacc ggctccagat ttatcagcaa taaaccagcc agccggaagg gccgagcgca gaagtggtcc tgcaacttta tccgcctcca
4001  tccagtctat taattgttgc cgggaagcta gagtaagtag ttcgccagtt aatagtttgc gcaacgttgt tgccattgct acaggcatcg tggtgtcacg
4101  ctcgtcgttt ggtatggctt cattcagctc cggttcccaa cgatcaaggc gagttacatg atcccccatg ttgtgcaaaa aagcggttag ctccttcggt
4201  cctccgatcg ttgtcagaag taagttggcc gcagtgttat cactcatggt tatggcagca ctgcataatt ctcttactgt catgccatcc gtaagatgct
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4401  acatagcaga actttaaaag tgctcatcat tggaaaacgt tcttcggggc gaaaactctc aaggatctta ccgctgttga gatccagttc gatgtaaccc
4501  actcgtgcac ccaactgatc ttcagcatct tttactttca ccagcgtttc tgggtgagca aaaacaggaa ggcaaaatgc cgcaaaaaag ggaataaggg
4601  cgacacggaa atgttgaata ctcatactct tccttttca atattattga agcatttatc agggttattg tctcatgagc ggatacatat ttgaatgtat
4701  ttagaaaaat aaacaaatag gggttccgcg cacatttccc cgaaaagtgc cacctgacgt ctaagaaacc attattatca tgacattaac ctataaaaat
4801  aggcgtatca cgaggccctt tcgtc
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## > RDC0461 Translated Insert Sequence

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   1  malllvslla flgsgsgchh wlchcsnrvf lcqdskvtei ppdlprnaie lrfvltklrv ipkgsfsgfg dlekieisqn dvlevieadv fsnlpnlhei
 101  riekannlly inpeafqnlp slryllisnt gikhlpafhk iqslqkvlld iqdninihii arnsfmglsf esvilwlnkn giqeihncaf ngtqldelnl
 201  sdnnnleelp ddvfqgasgp vvldisrtkv yslpnhglen lkklrarsty rlkklpsldk fvmlieaslt ypshccafan wrrqtselhp icnksisrqd
 301  iddmtqpgdq rvslvddeps ygkgsdmlys efdydlcnef vdvtcspkpd afnpcedimg ynilrvliwf isilaitgnt tvlvvlttsq ykltvprflm
 401  cnlafadlci giyllliasv dihtksqyhn yaidwktgag cdaagfftvf aselsvytla aitlerwhti thamqleckv qlchaasimv lgwafafaaa
 501  lfpifgissy mkvsiclpmd idsplsqlyv mallvlnala fvvicgcyth iyltvrnpni vsssrdtkia krmatliftd flcmapilff aisaslkvpl
 601  itvskakill vlfypinsca npflyaiftk nfrrdffvlm skfgcyevqa qiyktetssi thnfhsrknp cssaprvtns yvlvplnhsv qn
```