*h*Androgen R/NR3C4 VersaClone cDNA

Catalog Number: RDC3333

Specifications:

Gene:	*h*AR
Accession:	NP_001334992.1
Insert size:	1960bp
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

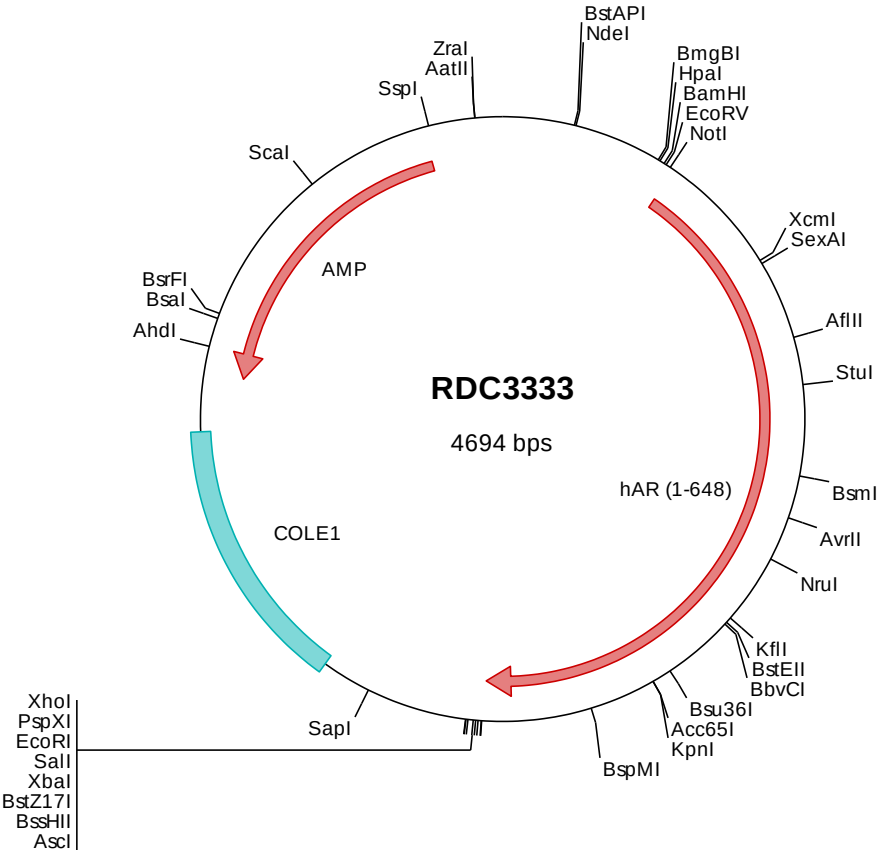
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*Androgen R/NR3C4 cDNA Plasmid

AR androgen receptor [*Homo sapiens* (human)]

Also known as: KD; AIS; AR8; TFM; DHTR; SBMA; HYSP1; NR3C4; SMAX1; HUMARA

Summary:
AR is a member of the NR3 subfamily of the nuclear hormone receptor family. It is expressed by androgen-sensitive tissue including bone, prostate, and testis. AR functions as a steroid-hormone activated transcription factor. Upon binding the hormone ligand, AR dissociates from accessory proteins, translocates into the nucleus, dimerizes, and then stimulates transcription of androgen responsive genes. Mutations in AR are also associated with complete androgen insensitivity (CAIS). Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
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> RDC3333 Plasmid DNA Sequence

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   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 atggaagtgc agttagggct gggaagggtc taccctcggc cgccgtccaa
 501  gacctaccga ggagctttcc agaatctgtt ccagagcgtg cgcgaagtga tccagaaccc gggccccagg cacccagagg ccgcgagcgc agcacctccc
 601  ggcgccagtt tgctccttct gcagcaacag caacaacagc agcaacagca gcaacaacaa caacagcaac agcaacaaca gcaacagcaa gagactagcc
 701  cgagacaaca gcaacagcaa cagggtgagg atggttctcc ccaagcccat cgtagaggcc ccacaggcta cctggtcctg gatgaggaac agcaaccttc
 801  acagccgcag tcggccctgg agtgccaccc cgagagaggt tgcgtcccag aacctggagc agctgtcgct gccagcaagg gactgccgca acagcttcca
 901  gcacctccgg acgaggatga ctcagctgcc ccatccacgt tgtccctgct gggccccact ttccccggct taagcagctg ctccgctgac cttaaagaca
1001  tcctgagcga ggctagcacc atgcaactcc ttcagcaaca acagcaagaa gcagtatccg aaggctcatc cagcgggaga gcgagggagg cctcgggggc
1101  tcccacttcc tccaaggaca attacttagg gggcacttcg accatttctg acaacgccaa ggagttgtgt aaggcagtgt cggtgtccat gggcctgggt
1201  gtggaggcgt tggagcatct gagtccaggg gaacagcttc gggggattg catgtacgcc ccacttttgg gagttccacc cgctgtgcgt cccactcctt
1301  gtgccccatt ggccgaatgc aaaggttctc tgctagacga cagcgcaggc aagagcactg aagatactgc tgagtattcc cctttcaagg gaggttacac
1401  caaagggcta gaaggcgaga gcctaggctg ctctggcagc gctgcagcag ggagctccgg gacacttgaa ctgccgtcta ccctgtctct ctacaagtcc
1501  ggagcactgg acgaggcagc tgcgtaccag agtcgcgact actacaactt tccactggct ctggctggac cgcctccacc tccgccacct ccacatcctc
1601  acgctcgcat caagctggag aacccgctgg actacggcag cgcatgggca gctgcagcag ctcagtgccg ctatggggac ctggcgagcc tgcatggcgc
1701  gggtgcagcg ggacccggtt ctgggtcacc ctcagccgcc gcttcctcat cctggcacac tctcttcaca gccgaagaag gccagttgta tggaccatgt
1801  ggtggaggag gtggaggtgg aggaggtgga ggtggcggtg gaggtggcgg tggcggagga ggtggtggag aggcgggagc tgtagccccc tacggctaca
1901  ctcggccccc tcaggggctg gcgggccagg aaagcgactt caccgcacct gatgtgtggt accctggcgg catggtgagc agagtgccct atcccagtcc
2001  cacttgtgtc aaaagcgaaa tgggcccctg gatggatagc tactccggac cttacgggga catgcgtttg gagactgcca gggaccatgt tttgcccatt
2101  gactattact ttccacccca gaagacctgc ctgatctgtg gagatgaagc ttctgggtgt cactatggag ctctcacatg tggaagctgc aaggtcttct
2201  tcaaaagagc cgctgaaggg aaacagaagt acctgtgcgc cagcagaaat gattgcacta ttgataaatt ccgaaggaaa aattgtccat cttgtcgtct
2301  tcggaaatgt tatgaagcag ggatgactct gggagcagct gttgttgttt ctgaaagaat cttgagggtg tttggagtct cagaatggct tccttaaagg
2401  cgcgccagta tactctagag tcgacacccg gggaattcct cgagcgctcg tctctagctt ggcgtaatca tggtcatagc tgtttcctgt gtgaaattgt
2501  tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa agcctggggt gcctaatgag tgagctaact cacattaatt gcgttgcgct
2601  cactgcccgc tttccagtcg ggaaacctgt cgtgccagct gcattaatga atcggccaac gcgcggggag aggcggtttg cgtattgggc gctcttccgc
2701  ttcctcgctc actgactcgc tgcgctcggt cgttcggctg cggcgagcgg tatcagctca ctcaaaggcg gtaatacggt tatccacaga atcaggggat
2801  aacgcaggaa agaacatgtg agcaaaaggc cagcaaaagg ccaggaaccg taaaaaggcc gcgttgctgg cgtttttcca taggctccgc cccctgacg
2901  agcatcacaa aaatcgacgc tcaagtcaga ggtggcgaaa cccgacagga ctataaagat accaggcgtt tccccctgga agctccctcg tgcgctctcc
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3201  gacacgactt atcgccactg gcagcagcca ctggtaacag gattagcaga gcgaggtatg taggcggtgc tacagagttc ttgaagtggt ggcctaacta
3301  cggctacact agaaggacag tatttggtat ctgcgctctg ctgaagccag ttaccttcgg aaaaagagtt ggtagctctt gatccggcaa acaaaccacc
3401  gctggtagcg gtggtttttt tgtttgcaag cagcagatta cgcgcagaaa aaaaggatct caagaagatc ctttgatctt ttctacgggg tctgacgctc
3501  agtggaacga aaactcacgt taagggattt tggtcatgag attatcaaaa aggatcttca cctagatcct tttaaattaa aaatgaagtt ttaaatcaat
3601  ctaaagtata tatgagtaaa cttggtctga cagttaccaa tgcttaatca gtgaggcacc tatctcagcg atctgtctat ttcgttcatc catagttgcc
3701  tgactccccg tcgtgtagat aactacgata cgggagggct taccatctgg ccccagtgct gcaatgatac cgcgagaccc acgctcaccg gctccagatt
3801  tatcagcaat aaaccagcca gccggaaggg ccgagcgcag aagtggtcct gcaactttat ccgcctccat ccagtctatt aattgttgcc gggaagctag
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4101  cagtgttatc actcatggtt atggcagcac tgcataattc tcttactgtc atgccatccg taagatgctt ttctgtgact ggtgagtact caaccaagtc
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4501  cctttttcaa tattattgaa gcatttatca gggttattgt ctcatgagcg gatacatatt tgaatgtatt tagaaaaata aacaaatagg ggttccgcgc
4601  acatttcccc gaaaagtgcc acctgacgtc taagaaacca ttattatcat gacattaacc tataaaaata ggcgtatcac gaggcccttt cgtc
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> RDC3333 Translated Insert Sequence

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 101  rrgptgylvl deeqqpsqpq salechperg cvpepgaava askglpqqlp appdeddsaa pstlslllgpt fpglsscsad lkdilseast mqllqqqqqe
 201  avsegsssgr areasgapts skdnylggts tisdnakelc kavsvsmglg vealehlspg eqlrgdcmya pllgvppavr ptpcaplaec kgslldsag
 301  kstedtaeys pfkggytkgl egeslgcsgs aaagssgtle lpstlslyks galdeaaayq srdyynfpla lagpppppppp phpharikle npldygsawa
 401  aaaaqcrygd laslhgagaa gpgsgspsaa assswhtlft aeegqlygpc ggggggggg ggggggggg gggeagavap ygytrppqgl agqesdftap
 501  dvwypggmvs rvpypsptcv ksemgpwmds ysgpygdmrl etardhvlpi dyyfppqktc licgdeasgc hygaltcgsc kvffkraaeg kqkylcasrn
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