

Specifications:

Gene:	<i>h</i> ESR1
Accession:	NP_000116
Insert size:	1801bp
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.

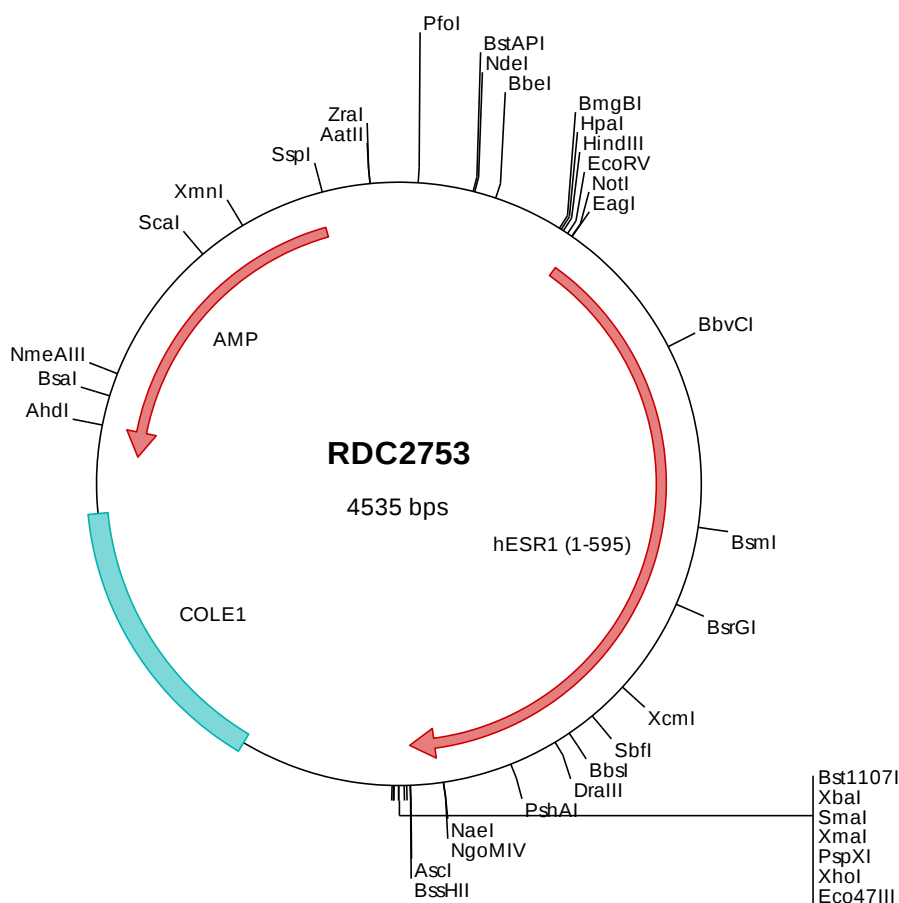
*h*ER alpha/NR3A1 cDNA Plasmid

ESR1 estrogen receptor 1 [*Homo sapiens* (human)]

Also known as: ER; ESR; Era; ESRA; ESTRR; NR3A1

Summary:

ESR1 is an estrogen receptor. It is a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. ESR1 localizes to the nucleus where it may form a homodimer or a heterodimer with estrogen receptor 2. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Estrogen receptors are also involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2753 Plasmid DNA Sequence

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1   tcgcgcgctt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtc cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaagg ggaatgtctg caaggcgatt aagttgggta agccagggtt tttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaaccgata tcgctagcgc ggccgcccac atgacccatga ctctgcacac taaggctagc ggtatggccc tgetgacca
501  gatccagggc aacgagctgg aacctctgaa caggccccag ctgaagatcc cactggagcg cctctctggc gaagtgtacc tggactcttc aaagcctgcc
601  gtctacaact accccgaggg agctgcctac gaattcaacg ctgccctctg aactccgtca cagggtgtac gccagactgg actgccatac ggacctggtt
701  ctgaagccgc tgccttcggt agcaacggcc tgggaggttt cccacctctg aactccgtca ccccatctcc tctgatgctg ctgcaccctc ctctcagct
801  gtctcccttc ctgcagccac acggacagca ggtgccttac tacctggaga acgaaccatc tggatacacc gtccgcgagg ctggtccccc agctttctac
901  cgtccaaact ctgacaaccg cgtcagggac ggaagggaaa gactggcttc aaccaacgac aagggatcca tggctatgga gagcgccaag gaaactcgct
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1201 atgaagggtg gcatcaggaa ggaaccgctt ggaggtagaa tgctgaagca caagaggcag agagacgacg gcgagggaag ggtggaagtc ggaactgctg
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2501 cgcgcgggga gaggcggtt gcgtattggg cgtctctccg cttcctcgct cactgactcg ctgcgctcgg tcgttcggct gcggcgagcg gtatcagctc
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> RDC2753 Translated Insert Sequence

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101  nsvspspml lhpqqqlspf lqphgqgvpy ylenepsgyt vreagppafy rpsndnrrqg grerlastnd kgsamesak etrycavnd yasgyhygvw
201  scegckaffk rsiqghndym cpatnqctid knrrkscgac rlrkcyevgm mkggirkdr rddgegrgev gsagdmraan lwpsplmikr
301  skknsllals1 tadqmvsa11 daeppilyse ydptrpfsea smmglltnla drelvhminw akrvpqfvd1 tlhdqvhllc cawleilmig lwvrsmehpg
401  klifapnlll drngqkcvge mveifdmla tssrfrmmnl ggeefvclks iillnsgvyt flsstlksle ekdhihrvld kitdtlihlm akagltlqqq
501  hqrlaqllli lshirhmsnk gmehlysmkc knvvpdydl1 lemldahrlh aptsrqgasv eedqshlat agstssshslq kyyitgeaeg fpatv

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