

## ESRRA cDNA

Catalog Number: ATGD0075

### PRODUCT INFORMATION

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**Catalog number**

ATGD0075

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_004442.3

**Alternative Names**

ERR1, ERRa, ERRalpha, ESRL1, NR3B1, Steroid hormone receptor ERR1, Estrogen-related receptor alpha (ERR-alpha)

**mRNA Refseq**

NM\_004451.4

**OMIM**

601998

**Chromosome location**

11q13

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

1272bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Hind III. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**ESRRA cDNA**

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**General Description**

ESRRA encoded by this gene is a nuclear receptor that is closely related to the estrogen receptor. ESRRA acts as a site-specific transcription regulator and has been also shown to interact with estrogen and the transcription factor TFIIB by direct protein-protein contact. The binding and regulatory activities of this protein have been demonstrated in the regulation of a variety of genes including lactoferrin, osteopontin, medium-chain acyl coenzyme A dehydrogenase (MCAD) and thyroid hormone receptor genes. A processed pseudogene of ESRRA is located on chromosome 13q12. 1. Alternatively spliced transcript variants have been found for this gene.

**DATA****Sequence nucleotides**

ATGTCCAGCC AGGTGGTGGG CATTGAGCCT CTCTACATCA AGGCAGAGCC GGCCAGCCCT GACAGTCCAA  
 AGGGTTCTC GGAGACAGAG ACCGAGCCTC CTGTGGCCCT GGCCCTGGT CCAGCTCCCA CTCGCTGCCT  
 CCCAGGCCAC AAGGAAGAGG AGGATGGGGA GGGGGCTGGG CCTGGCGAGC AGGGCGGTGG GAAGCTGGTG  
 CTCAGCTCCC TGCCCAAGCG CCTCTGCCTG GTCTGTGGGG ACGTGGCCTC CGGCTACCAC TATGGTGTGG  
 CATCCTGTGA GGCCTGCAA GCCTTCTTCA AGAGGACCAT CCAGGGGAGC ATCGAGTACA GCTGTCCGGC  
 CTCCAACGAG TGTGAGATCA CCAAGCGGAG ACGCAAGGCC TGCCAGGCCT GCCGCTTCAC CAAGTGCCTG  
 CGGGTGGGCA TGCTCAAGGA GGGAGTGCGC CTGGACCGCG TCCGGGGTGG GCGGCAGAAG TACAAGCGGC  
 GGCCGGAGGT GGACCCACTG CCCTTCCCGG GCCCCTTCCC TGCTGGGCCCT CTGGCAGTCG CTGGAGGCC  
 CCGGAAGACA GCAGCCCCAG TGAATGCACT GGTGTCTCAT CTGCTGGTGG TTGAGCCTGA GAAGCTCTAT  
 GCCATGCCTG ACCCCGCAGG CCCTGATGGG CACCTCCAG CCGTGGCTAC CCTCTGTGAC CTCTTTGACC  
 GAGAGATTGT GGTCACCATC AGCTGGGCCA AGAGCATCCC AGGCTTCTCA TCGCTGTGCG TGTCTGACCA  
 GATGTCAGTA CTGCAGAGCG TGTGGATGGA GGTGCTGGTG CTGGGTGTGG CCCAGCGCTC ACTGCCACTG  
 CAGGATGAGC TGGCCTTCGC TGAGGACTTA GTCCTGGATG AAGAGGGGGC ACGGGCAGCT GGCCTGGGGG  
 AACTGGGGGC TGCCCTGCTG CAACTAGTGC GGCGGCTGCA GGCCCTGCGG CTGGAGCGAG AGGAGTATGT  
 TCTACTAAAG GCCTTGGCCC TTGCCAATTC AGACTCTGTG CACATCGAAG ATGCCGAGGC TGTGGAGCAG  
 CTGCGAGAAG CTCTGCACGA GGCCCTGCTG GAGTATGAAG CCGGCCGGGC TGGCCCCGGA GGGGGTGTG  
 AGCGGCGGCG GCGGGCAGG CTGCTGCTCA CGCTACCGCT CCTCCGCCAG ACAGCGGGCA AAGTGTGGC  
 CCATTTCTAT GGGGTGAAGC TGGAGGGCAA GGTGCCCATG CACAAGCTGT TCTTGAGAT GCTCGAGGCC  
 ATGATGGACT GA

**Transaction Sequence**

MSSQVVGIEP LYIKAEPASP DSPKGSSETE TEPPVALAPG PAPTRCLPGH KEEEDGEAG PGEQGGGKLV LSSLPKRLCL  
 VCGDVASGYH YGVASCEACK AFFKRTIQS IEYSCPASNE CEITKRRRKA CQACRFTKCL RVGMLKEGVR LDRVRRGGRQK  
 YKRRPEVDPL PFPGPPAGP LAVAGGPRKT AAPVNALVSH LLVVEPEKLY AMPDPAGPDG HLPVATLCD LFDREIVTI  
 SWAKSIPGFS SLSLSDQMSV LQSVWMEVLV LGVAQRSLPL QDELFAEDL VLDEEGARAA GLGELGAALL QLVRRQLALR  
 LEREEYVLLK ALALANSDSV HIEDAEAVEQ LREALHEALL EYEAGRAGPG GGAERRRAGR LLLTLPLLRQ TAGKVLAHFY  
 GVKLEGKVPM HKLFLEMLEA MMD