

Product datasheet for **RC226005**

Estrogen Receptor 1 (ESR1) (NM_001122742) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Estrogen Receptor 1 (ESR1) (NM_001122742) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Estrogen Receptor 1
Synonyms:	ER; Era; ESR; ESRA; ESTRR; NR3A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC226005 representing NM_001122742
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCATGACCCTCCACACAAAGCATCTGGGATGGCCCTACTGCATCAGATCCAAGGGAACGAGCTGG
 AGCCCCTGAACCGTCCGACAGCTCAAGATCCCCCTGGAGCGGCCCTGGGGAGGGTGTACCTGGACAGCAG
 CAAGCCC GCCGTGTACAACCTACCCGAGGGCGCCGCTACGAGTTCAACGCCGCGCCGCCCAACCGC
 CAGGTCTACGGTACAGCCGGCCTCCCCTACGGCCCCGGTCTGAGGCTGCGGCGTTCCGGCTCCAACGGCC
 TGGGGGGTTTCCCCCACTCAACAGCGTGTCTCCGAGCCCGTGTACTGCTACTGCACCCGCCCGCAGCT
 GTCGCCTTCTGCAGCCCCACGGCCAGCAGGTGCCCTACTACCTGGAGAACGAGCCAGCGGCTACACG
 GTGCGCGAGGCGGCCGCCGGCATTCTACAGGCCAAATTCAGATAATCGACGCCAGGGTGGCAGAGAAA
 GATTGGCCAGTACCAATGACAAGGGAAGTATGGCTATGGAATCTGCCAAGGAGACTCGCTACTGTGCAGT
 GTGCAATGACTATGCTTACAGGCTACCATTATGGAGTCTGGTCTGTGAGGGCTGCAAGGCCTTCTCAAG
 AGAAGTATTCAAGGACATAACGACTATATGTGTCCAGCCACCAACAGTGCACCATTGATAAAAAACAGGA
 GGAAGAGCTGCCAGGCTGCCGGCTCCGCAATGCTACGAAGTGGGAATGATGAAAGGTGGGATACGAAA
 AGACCGAAGAGGAGGAGAATGTTGAAACACAAGCGCCAGAGAGATGATGGGGAGGGCAGGGGTGAAGTG
 GGGTCTGCTGGAGACATGAGAGCTGCCAACCTTTGGCCAGCCCGCTCATGATCAAACGCTCTAAGAAGA
 ACAGCCTGGCCTTGTCCCTGACGGCCGACCAGATGGTCACTGCTTGTGGATGCTGAGCCCCCATACT
 CTATCCGAGTATGATCCTACCAGCCCTTCAGTGAAGCTTCGATGATGGGCTTACTGACCAACCTGGCA
 GACAGGGAGCTGGTTCACATGATCAACTGGCGAAGAGGGTGCCAGGCTTGTGGATTGACCCCTCATG
 ATCAGGTCACCTCTAGAATGTGCCTGGCTAGAGATCCTGATGATTGGTCTCGTCTGGCGCTCCATGGA
 GCACCCAGGGAAGCTACTGTTTGTCTCTAACTTGCTCTTGACAGGAACAGGAAAAATGTGTAGAGGGC
 ATGGTGGAGATCTTCGACATGCTGCTGGCTACATCATCTCGGTTCCGCATGATGAATCTGCAGGGAGAGG
 AGTTTGTGTGCCTCAAATCTATTATTTGCTTAATTCTGGAGTGTACACATTTCTGTCCAGCACCTGAA
 GTCTCTGGAAGAGAAGGACCATATCCACCAGTCTGGACAAGATCACAGACACTTTGATCCACCTGATG
 GCCAAGGCAGGCTGACCCTGCAGCAGCAGCACCAGCGGCTGGCCAGCTCCTCCTCATCTCTCCACA
 TCAGGCACATGAGTAACAAAGGCATGGAGCATCTGTACAGCATGAAGTGAAGAAGCTGGTCCCTCTA
 TGACCTGCTGCTGGAGATGCTGGACGCCACCGCTACATGCGCCCACTAGCCGTGGAGGGGCATCCGTG
 GAGGAGACGGACAAAGCCACTTGGCCACTGCGGGCTCTACTTCATCGCATTCTTGCAAAGTATTACA
 TCACGGGGGAGGCAGAGGGTTTCCCTGCCACGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226005 representing NM_001122742
 Red=Cloning site Green=Tags(s)

MTMLHTKASGMALLHQIQGNELEPLNRPQLKIPLERPLGEVYLDSSKPAVYNYPEGAAAYEFNAAAAANA
 QVYQGTGLPYGPGSEAAAFGSNGLGGFPPLNSVSPSPLMLLHPPPQLSPFLQPHGQVVPYYLENEPSGYT
 VREAGPPAFYRPNSDNRRQGGRERLASTNDKGSMAKESAKETRYCAVCNDYASGYHYGVWSCEGCKAFFK
 RSIQGHNDYMCATNQCCTIDKNRRKSCQACRLRKCVEVGMKGGIRKDRRGGKLLKHKRQRDDGEGRGEV
 GSAGDMRAANLWPSPLMIKRSKKNLALSLTADQMVSAALLDAEPPILYSEYDPTPRPFSEASMMGLLTNLA
 DRELVHMINWAKRVPFVDTLHDQVHLLCAWLEILMIGLVWRSMEHPGKLLFAPNLLDRNQKCVGEV
 MVEIFDMLLATSSRFMMNLQGEFVCLKSIIILLNSGVYTFLSSTLKSLEEKDHIHRVLDKITDTLIHLM
 AKAGLTQQQHQLAQLLLILSHIRHMSNKGMEHLYSMKCNVVPYLDLLEMLDAHRLHAPTSRGGASV
 EETDQSHLATAGSTSSHSLQKYYITGEAEGFPATV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

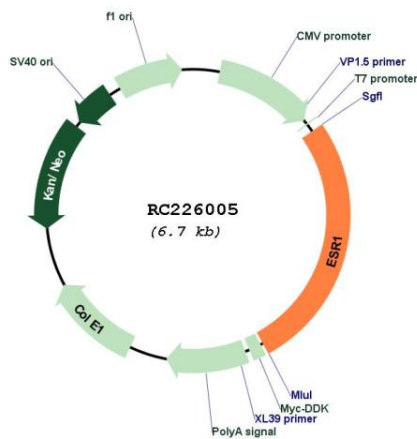
Cytogenetics: 6q25.1-q25.2

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

MW: 66.2 kDa

Gene Summary: This gene encodes an estrogen receptor and ligand-activated transcription factor. The canonical protein contains an N-terminal ligand-independent transactivation domain, a central DNA binding domain, a hinge domain, and a C-terminal ligand-dependent transactivation domain. The protein localizes to the nucleus where it may form either a homodimer or a heterodimer with estrogen receptor 2. The protein encoded by this gene regulates the transcription of many estrogen-inducible genes that play a role in growth, metabolism, sexual development, gestation, and other reproductive functions and is expressed in many non-reproductive tissues. The receptor encoded by this gene plays a key role in breast cancer, endometrial cancer, and osteoporosis. This gene is reported to have dozens of transcript variants due to the use of alternate promoters and alternative splicing, however, the full-length nature of many of these variants remain uncertain. [provided by RefSeq, Jul 2020]

Product images:



Circular map for RC226005