

Product datasheet for **MR227144**

Esr2 (NM_207707) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esr2 (NM_207707) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Esr2
Synonyms:	ERbeta; ER[b]; Estrb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR227144 representing NM_207707
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCATCTGTGCTCTTCTCACAAAGGATTTTTCTCAGCTGAGACCTACGCAAGACATGGAGATCAAAA
 ACTCACCATCAAGCCTTACTTCCCTGCTTCTATAAAGTGTAGCCAGTCCATCCTACCCTGGAGCATGG
 TCCCATCTATATCCCTTCTCCTATGTAGAGAGCCGTCACGAATACTCAGCCATGACATTCTACAGTCTT
 GCTGTGATGAACTACAGTGTCCAGCAGCACCAGTAACTGGAAGGTGGGCTGTTTCGCCAGACTGCAA
 GCCAAATGTGCTATGGCCAACTTCTGGACACCTCTCTCTTTAGCCACCCACTGCCAATCATCGTTCT
 CTATGCAGAACCTCAAAGAGTCTTGGTGTGAAGCAAGATCACTAGAACACACCTTGCCTGTAACAGA
 GAGACCTGAAGAGGAAGCTTGGCGGGAGCGGTTGTGCCAGCCCTGTTACTAGTCCAAGCGCAAGAGGG
 ATGCTCACTTCTGCGCCGCTGCAGTGATTATGCATCTGGGTATCATTACGGTGTCTGGTCTGTGAAGG
 ATGTAAGGCCTTTTTTAAAAGAAGCATTCAAGGACATAATGACTATATCTGTCCAGCCACGAATCAGTGT
 ACCATAGACAAGAACCGCGTAAAAGCTGCCAGGCCTGCCGACTTCGCAAGTGTACGAAGTAGGAATGG
 TCAAGTGTGGATCCAGGAGAGAAAGGTGTGGGTACCGAATAGTACGAAGACAGAGAAGTCCAGCGAGCA
 GGTGCATTGCCTGAACAAAGCCAAGAGAACCAGTGGGCACACACCCCGGTGAAGGAGCTACTGTGAAC
 TCTCTGAGTCCCAGCAGCTGGTGTCCACCTGCTGGAAGCTGAGCCACCCAATGTGCTAGTGAGCCGTC
 CCAGCATGCCCTTACCAGAGGCTCCATGATGATGTCCCTCACGAAGCTGGTGACAAGGAACTGGTGA
 CATGATTGGCTGGGCCAAGAAAATCCCTGGCTTGTGGAGCTCAGCCTGTTGGACCAAGTCCGCCTTTG
 GAAAGCTGCTGGATGGAGGTGCTGATGGTGGGCTGATGTGGCGCTCCATCGACCACCCCGCAAGCTCA
 TCTTTGTCCAGACCTCGTTCTGGACAGGTCCTCAGAAGACCTCACTGGCACGTTGCGCAGCAGGAAG
 TGCTGTCCCAAGGGATGAGGGGAAGTGCCTGGAAGGGATTCTGGAAATCTTTGACATGCTCTGGCGACG
 ACGGCACGGTTCCGTGAGTTAAACTGCAGCACAAAGAATATCTGTGTGAAGGCCATGATTCTCTCA
 ACTCCAGTATGTACCCTTGGCTACCGCAAGCCAGGAAGCAGAGAGTAGCCGGAAGCTGACACACCTATT
 GAACGCAGTGACAGATGCCCTGGTCTGGGTGATTTCAAGAGTGGAACTCTTCCAGCAGCAGTCAAGTC
 CGTCTGGCCAACCTCCTGATGCTTCTTCTCATGTGAGGCACATCAGTAAACAAGGGCATGGAACATCTGC
 TCAGCATGAAGTGCAAAAATGTGGTCCCGGTGTACGACCTGCTGCTGGAGATGCTGAATGCTCACACGCT
 TCGAGGGTACAAGTCTCAATCTCGGGTCTGAGTGTCTGCTGACAGAGGACAGTAAAGAGCAAGAGGGC
 TCCAGAACCTCCAGTCACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227144 representing NM_207707
 Red=Cloning site Green=Tags(s)

MSICASSHKDFSQRPTQDMEIKNSPSSLTSPASYNCSQSILPLEHGPIYIPSSYVESRHEYSAMTFYSP
 AVMNYSVPSSTGNLEGGPVRQTASPNVLWPTSGHLSPLATHCQSSLLYAEPQKSPWCEARSLEHTLPVNR
 ETLKRKLGSGCASPVTSPSAKRDAHFCAVCSYASGYHYGVWSCEGCKAFFKRSIQGHNDYICPATNQC
 TIDKNRRKSCQACRLRKYEVGMVKCGSRRERCGYRIVRRQRSASEQVHCLNKAKRTSGHTPRVKELLLN
 SLSPEQLVLTLLAEPPNVLVSRPMPFTEASMMMSLTKLADKELVHMIGWAKKIPGFVELSLLDQVRL
 ESCWMEVLMVGLMWRSIDHPGKLIAPDLVLDRSSEDPHWHVAQTKSAVPRDEGKCEGILEIFDMLLAT
 TARFRELKQKHEYLKVKAMILLNSSMYPLATASQEAESSRKLTHLLNAVTDALVWVISKSGISSQQQSV
 RLANLLMLLSHVRHISNKGMEHLLSMKCKNVVPYVDLLEMLNAHTLRGYKSSISGSECCSTEDSKSKEG
 SQNLQSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN:

NM_207707

ORF Size:

1701 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_207707.1, NP_997590.1](#)

RefSeq Size: 3362 bp

RefSeq ORF: 1704 bp

Locus ID: 13983

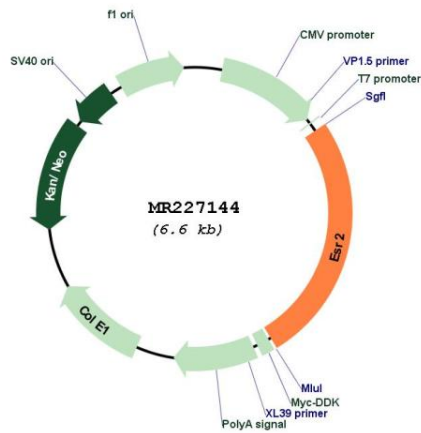
UniProt ID: [O08537](#)

Cytogenetics: 12 33.52 cM

MW: 63.7 kDa

Gene Summary: Nuclear hormone receptor. Binds estrogens with an affinity similar to that of ESR1 (ER-alpha), and activates expression of reporter genes containing estrogen response elements (ERE) in an estrogen-dependent manner. May play a role in ovarian follicular growth and maturation. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227144