

Product datasheet for **MR227304**

Esr1 (NM_007956) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esr1 (NM_007956) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Esr1
Synonyms:	E; ER; ER-; ER-alpha; ERa; ERalpha; ER[; Es; ESR; Estr; Estra; Nr; Nr3a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR227304 representing NM_007956
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGACCATGACCCTTACACCAAAGCCTCGGGAATGGCCTTGCTGCACCAGATCCAAGGGAACGAGCTGG
 AGCCCTCAACCGCCCGCAGCTCAAGATGCCCATGGAGAGGGCCCTGGGCGAGGTATACGTGGACAACAG
 CAAGCCCACTGTGTTCACTACCCGAGGGCGCCGCTACGAGTTCAACGCCCGCCGCCGCCGCCGCC
 GCCGCTCGGCGCCGGTCTACGGCCAGTCGGGCATCGCCTACGGCCCCGGGTGGAGGCGGCCGCCCTTCA
 GTGCCAACAGCCTGGGGGCTTTCCCCAGCTCAACAGCGTGTGCGCTAGCCCGCTGATGCTGCTGCCCC
 GCCGCCGAGCTGTCTCTTTCTGCACCCGCACGGCCAGCAGGTGCCCTACTACCTGGAGAACGAGCCC
 AGCGCCTACGCCGTGCGGACACCGCCCTCCCGCCTTACAGGTCTAATTCTGACAATCGACGCCAGA
 ATGGCCGAGAGAGACTGTCCAGCAGTAACGAGAAAGAAACATGATCATGGAGTCTGCCAAGGAGACTCG
 TACTGTGCCGTGTGCAATGACTATGCCTTGGCTACCATTATGGGGTCTGGTCTGCGAAGGCTGCAAG
 GCTTTCTTAAAGAGAAGCATTCAAGGACACAATGACTACATGTGTCCAGCTACAAACCAATGCACCATTTG
 ACAAGAACC GGAGGAAGATTGCCAGGCCGTGTCGGCTGCGCAAGTGTACGAAGTGGGCATGATGAAAGG
 CGGCATACGGAAGACCGCCGAGGAGGGAGAATGTTGAAGCACAAGCGTCAGAGAGATGACTTGGAAAGC
 CGAAATGAAATGGGTGCTTCAGGAGACATGAGGGCTGCCAACCTTTGGCCAAGCCCTCTTGTGATTAAGC
 ACCTAAGAAGAATAGCCCTGCCTTGTCTTGCACAGTGCACAGATGGTCAAGTGCCTTGTGGATGCTGA
 ACCGCCATGATCTATTCTGAATATGATCCTTCTAGACCCTTCAAGTGAAGCCTCAATGATGGGCTTATTG
 ACCAACCTAGCAGATAGGGAGCTGGTTCATATGATCAACTGGGCAAAGAGAGTCCAGGCTTTGGGGACT
 TGAATCTCATGATCAGGTCCACCTTCTCGAGTGTGCTGGCTGGAGATTCTGATGATGGTCTCGTCTG
 CGGCTCCATGGAACACCGGGGAAGCTCCTGTTTGTCTCTAACTTGTCTCTGGACAGGAATCAAGGTAAA
 TGTGTGGAAGGCATGGTGGAGATCTTTGACATGTTGCTGGCTACGTCAGTCAAGTTCGGTCCGCATGATGAAC
 TGCAGGGAGAAGAGTTTGTGTCCTCAAATCCATCATTTTGTCTAATTCCGGAGTGTACACGTTTCTGTC
 CAGCACCTTGAAGTCTCTGGAAGAGAAGGACCACATCCACCGTGTCTGGACAAGATCACAGACACTTTG
 ATCCACCTGATGGCAAAGCTGGCCTGACTCTGCAGCAGCAGCATCGCCGCTAGCTCAGCTCCTTCTCA
 TTCTTTCCCATATCCGGCACATGAGTAACAAAGGCATGGAGCATCTCTACAACATGAAATGCAAGAACGT
 TGTGCCCTCTATGACCTGCTCCTGGAGATGTTGGATGCCACCGCCTTATGCCCCAGCCAGTCGCATG
 GGAGTGCCCCCAGAGGAGCCAGCCAGCCAGCTGGCCACCACCAGCTCCACTTACGACACATTCCTTAC
 AAACCTACTACATACCCCGGAAGCAGAGGGCTTCCCCAACACGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227304 representing NM_007956
 Red=Cloning site Green=Tags(s)

MTMLHTKASGMALLHQIQGNELEPLNRPQLKMPMERALGEVYVDNSKPTVFNYPEGAAYEFNAAAAA
 AASAPVYGQSGIAYGPGSEAAAFSANSLGAFPQLNSVSPSPLMLLHPPPQLSPFLHPHGQVPPYLENEP
 SAYAVRDTGPPAFYRSNSDNRRQNGRERLSSSNEKGNMIMESAKETRYCAVCNDYASGYHYGVWSCEGCK
 AFFKRSIQGHNDYMCPTNQCTIDKNRRKSCQACRLRKYEVGMMKGGIRKDRRGRMLKHKRQRDDLEG
 RNEMGASGMRAANLWPSPLVIKHTKKNPALSLTADQMVSAALLDAEPPMIYSEYDPSRPFSEASMMGLL
 TNLADRELVHMINWAKRVPGFDLNLHDQVHLLCAWLEILMIGLVWRSMHPGKLLFAPNLLDRNQGK
 CVEGMVEIFDMLLATSSFRMMNLQGEFVCLKSIILLNSGVYTFLSSTLKSLEEKDHIHRVLDKITDTL
 IHLMAKAGLTLQQHRRLAQLLLILSHIRHMSNKGMEHLYNMKCKNVVPLYDLLLLLEMLDAHRLHAPASRM
 GVPPEEPSQTLATTSSTSAHSLQTYIIPPEAEGFPNTI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9032_a01.zip

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_007956.5](#)

RefSeq Size: 4319 bp

RefSeq ORF: 1800 bp

Locus ID: 13982

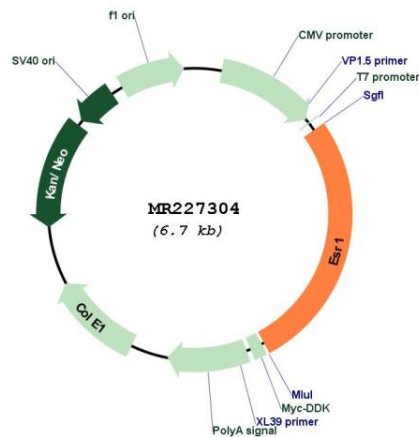
UniProt ID: [P19785](#)

Cytogenetics: 10 2.03 cM

MW: 67.4 kDa

Gene Summary: This gene encodes an estrogen receptor, a member of the nuclear hormone family of intracellular receptors. The encoded protein, activated by the sex hormone estrogen, is a transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Similar genes in human have been implicated in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Product images:



Circular map for MR227304