

Product datasheet for **MR230633**

Esr1 (NM_001302531) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esr1 (NM_001302531) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Esr1
Synonyms:	E; ER; ER-; ER-alpha; ERa; ERalpha; ER[; Es; ESR; Estr; Estra; Nr; Nr3a1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>MR230633 representing NM_001302531
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCATGACCCTTACACCAAAGCCTCGGGAATGGCCTTGCTGCACCAGATCCAAGGGAACGAGCTGG
 AGCCCTCAACCGCCCGAGCTCAAGATGCCCATGGAGAGGGCCCTGGGCGAGGTATACGTGGACAACAG
 CAAGCCCACTGTGTTCAACTACCCGAGGGCGCCGCTACGAGTTCAACGCCCGCCGCCGCCGCCGCC
 GCCGCTCGGCGCCGGTCTACGGCCAGTCGGGCATCGCCTACGGCCCCGGGTGGAGGCGGCCGCCCTTCA
 GTGCCAACAGCCTGGGGGCTTCCCCAGCTCAACAGCGTGTGCGCTAGCCCGCTGATGCTGCTGCCACC
 GCCGCCGAGCTGTCTCTTTCGACCCGCACGGCCAGCAGGTGCCCTACTACCTGGAGAACGAGCCC
 AGCGCCTACGCCGTGCGGACACCGCCCTCCCGCCTTACAGGTCTAATTCTGACAATCGACGCCAGA
 ATGGCCGAGAGAGACTGTCCAGCAGTAACGAGAAAGAAACATGATCATGGAGTCTGCCAAGGAGACTCG
 TACTGTGCCGTGTGCAATGACTATGCCTTGGCTACCATTATGGGGTCTGGTCTCGCAAGGCTGCAAG
 GCTTTCTTAAAGAGAAGCATTCAAGGACACAATGACTACATGTGTCCAGCTACAAACCAATGCACCATTG
 ACAAGAACC GGAGGAAGATTGCCAGGCCGTGTCGGCTGCGCAAGTGTACGAAGTGGGCATGATGAAAGG
 CGGCATACGAAAAGACCGCCGAGGAGGGAGAATGTTGAAGCACAAGCGTCAGAGAGATGACTTGGAAAGC
 CGAAATGAAATGGGTGCTTCAGGAGACATGAGGGCTGCCAACCTTGGCCAAGCCCTCTTGATTAAGC
 AACTAAGAAGAATAGCCCTGCCTTGTCTTGCACAGTGCACAGATGGTCAAGTGCCTTGTGGATGCTGA
 ACCGCCATGATCTATTCTGAATATGATCCTTCTAGACCCTTCAAGTGAAGCCTCAATGATGGGCTTATTG
 ACCAACCTAGCAGATAGGGAGCTGGTTCATATGATCAACTGGGCAAAGAGAGTCCAGGCTTTGGGGACT
 TGAATCTCATGATCAGGTCCACCTTCTCGAGTGTGCTGGTGGAGATCTGATGATTGGTCTCGTCTG
 CGGCTCCATGGAACACCGGGGAAGCTCCTGTTTGTCTCCTAACTTGTCTCTGGACAGGAATCAAGGTAAA
 TGTGTGGAAGGCATGGTGGAGATCTTGTGACATGTTGCTGGCTACGTCAGTCAAGTGGTCCGCATGATGAACC
 TGCAGGGAGAAGAGTTTGTGTCCTCAAATCCATCATTTTGTCTAATTCCGGAGTGTACACGTTTCTGTC
 CAGCACCTTGAAGTCTCTGGAAGAGAAGGACCACATCCACCGTGTCTGGACAAGATCACAGACACTTTG
 ATCCACCTGATGGCAAAGCTGGCCTGACTCTGCAGCAGCAGCATCGCCGCTAGCTCAGCTCCTTCTCA
 TTCTTTCCATATCCGGCACATGAGTAACAAAGGCATGGAGCATCTCTACAACATGAAATGCAAGAACGT
 TGTGCCCTCTATGACCTGCTCCTGGAGATGTTGGATGCCACCGCCTTATGCCCCAGCCAGTCGCATG
 GGAGTGCCCCCAGAGGAGCCAGCCAGCCAGCTGGCCACCACCAGCTCCACTTACGACACATTCCTTAC
 AAACCTACTACATACCCCGGAAGCAGAGGGCTTCCCAACACGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230633 representing NM_001302531
 Red=Cloning site Green=Tags(s)

MTMTLHTKASGMALLHQIQGNELEPLNRPQLKMPMERALGEVYVDNSKPTVFNYPEGAAYEFNAAAAA
 AASAPVYQSGIAYGPGSEAAAFSANSLGAFPQLNSVSPSPLMLLHPPPQLSPFLPHGQQVPYYLENEP
 SAYAVRDTGPPAFYRSNSDNRRQNGRERLSSSNEKGNMIMESAKETRYCAVCNDYASGYHYGVWSECGK
 AFFKRSIQGHNDYMCPATNQCTIDKNRRKSCQACRLRKYEVGMMKGGIRKDRRGGRRMLKHKRQRDDLEG
 RNEMGASGDMRAANLWPSPLVIKHTKKNPALSLTADQMVSALLDAEPPMIYSEYDPSRPFSEASMMGLL
 TNLADRELVHMINWAKRVPFGDLNLHDQVHLLCAWLEILMIGLVWRSMHEHPGKLLFAPNLLLDRNQK
 CVEGMVEIFDMLLATSSRFMMNLQGEFVCLKSIILLNSGVYTFLSSTLKSLEEKDHIHRVLDKITDTL
 IHLMAKAGLTLQQHRRLAQLLLILSHIRHMSNKGMEHLYNMKCKNVVPLYLLEMLDAHRLHAPASRM
 GVPPEEPSQTLATTSSTSAHSLQTYIIPPEAEGFPNTI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

OTI Disclaimer:	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:	<ol style="list-style-type: none">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_001302531.1 , NP_001289460.1
RefSeq Size:	6218 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]