

Product datasheet for **MC228422**

Esr1 (NM_001302531) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esr1 (NM_001302531) Mouse Untagged Clone
Tag:	Tag Free
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



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Fully Sequenced ORF: >MC228422 representing NM_001302531
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCATGACCCTTACACCAAAGCCTCGGGAATGGCCTTGCTGCACCAGATCCAAGGGAACGAGCTGG
 AGCCCCTCAACCGCCCGCAGCTCAAGATGCCCATGGAGAGGGCCCTGGGCGAGGTATACGTGGACAACAG
 CAAGCCCACTGTGTTCAACTACCCCGAGGGCGCCGCTACGAGTTCAACGCCCGCCGCCGCCGCCGCC
 GCCGCTCGGCGCCGGTCTACGGCCAGTCGGGCATCGCCTACGGCCCCGGGTGGAGGCGGCCGCCCTTCA
 GTGCCAACAGCCTGGGGGCTTCCCCAGCTCAACAGCGTGTGCGCTAGCCCGCTGATGCTGCTGCCACC
 GCCGCCGAGCTGTCTCTTTCTGCACCCGCACGGCCAGCAGGTGCCCTACTACCTGGAGAACGAGCCC
 AGCGCCTACGCCGTGCGGACACCGCCCTCCCGCCTTACAGGTCTAATTCTGACAATCGACGCCAGA
 ATGGCCGAGAGAGACTGTCCAGCAGTAACGAGAAAGAAACATGATCATGGAGTCTGCCAAGGAGACTCG
 TACTGTGCCGTGTGCAATGACTATGCCTCTGGCTACCATTATGGGGTCTGGTCTCGCAAGGCTGCAAG
 GCTTTCTTTAAGAGAAGCATTCAAGGACACAATGACTACATGTGTCCAGCTACAAACCAATGCACCATTG
 ACAAGAACCGGAGGAAGAGTTGCCAGGCCGTGTCGGCTGCGCAAGTGTACGAAGTGGGCATGATGAAAGG
 CGGCATACGGAAGACCGCCGAGGAGGGAGAATGTTGAAGCACAAGCGTCAGAGAGATGACTTGGAAAGC
 CGAAATGAAATGGGTGCTTCAGGAGACATGAGGGCTGCCAACCTTTGGCCAAGCCCTCTTGATTAAGC
 ACATAAGAAGAATAGCCCTGCCTTGTCTTGCACAGCTGACCAGATGGTCAGTGCCTTGTGGATGCTGA
 ACCGCCATGATCTATTCTGAATATGATCCTTCTAGACCCTTCAGTGAAGCCTCAATGATGGGCTTATTG
 ACCAACCTAGCAGATAGGGAGCTGGTTCATATGATCAACTGGGCAAGAGAGTCCAGGCTTTGGGGACT
 TGAATCTCATGATCAGTCCACCTTCTCGAGTGTGCTGGCTGGAGATTCTGATGATTGGTCTCGTCTG
 GCGTCCATGGAACACCGGGGAAGCTCCTGTTTGTCTCCTAACTTGTCTGACAGGAATCAAGGTAAA
 TGTGTGGAAGGCATGGTGGAGATCTTTGACATGTTGCTGGCTACGTCAAGTCGGTTCCGCATGATGAACC
 TGCAGGGAGAAGAGTTTGTGTCCTCAAATCCATCATTTTGTCTAATTCCGGAGTGTACACGTTTCTGTC
 CAGCACCTTGAAGTCTCTGGAAGAGAAGGACCACATCCACCGTGTCTGGACAAGATCACAGACACTTTG
 ATCCACCTGATGGCCAAAGCTGGCCTGACTCTGCAGCAGCAGCATCGCCGCTAGCTCAGCTCCTTCTCA
 TTCTTTCCCATATCCGGCACATGAGTAACAAAGGCATGGAGCATCTCTACAACATGAAATGCAAGAACGT
 TGTGCCCTCTATGACCTGCTCCTGGAGATGTTGGATGCCACCGCCTTCATGCCCCAGCCAGTCGCATG
 GGAGTGCCCCCAGAGGAGCCAGCCAGACCCAGCTGGCCACCACCAGCTCCACTTCAGCACATTCCTTAC
 AAACCTACTACATACCCCGGAAGCAGAGGGCTTCCCCAACACGATC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001302531
- Insert Size:** 1800 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001302531.1](#), [NP_001289460.1](#)

RefSeq Size: 6218 bp

RefSeq ORF: 1800 bp

Locus ID: 13982

UniProt ID: [P19785](#)

Cytogenetics: 10 2.03 cM

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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.