

## Product datasheet for **MC228423**

### **Esr1 (NM\_001302532) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Esr1 (NM_001302532) 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:** >MC228423 representing NM\_001302532  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCATGACCCTTACACCAAAGCCTCGGGAATGGCCTTGCTGCACCAGATCCAAGGGAACGAGCTGG  
 AGCCCCTCAACCGCCCGCAGCTCAAGATGCCCATGGAGAGGGCCCTGGGCGAGGTATACGTGGACAACAG  
 CAAGCCCACTGTGTTCAACTACCCCGAGGGCGCCGCTACGAGTTCAACGCCCGCCGCCGCCGCCGCC  
 GCCGCCTCGGCGCCGGTCTACGGCCAGTCGGGCATCGCCTACGGCCCCGGGTGGAGGCGGCCGCCCTTCA  
 GTGCCAACAGCCTGGGGGCTTCCCCAGCTCAACAGCGTGTGCGCTAGCCCGCTGATGCTGCTGCCACC  
 GCCGCCGAGCTGTCTCCTTCTGCACCCGCACGGCCAGCAGGTGCCCTACTACCTGGAGAACGAGCCC  
 AGCGCCTACGCCGTGCGGACACCGCCCTCCCGCCTTACAGGTCTAATTCTGACAATCGACGCCAGA  
 ATGGCCGAGAGAGACTGTCCAGCAGTAACGAGAAAGAAACATGATCATGGAGTCTGCCAAGGAGACTCG  
 TACTGTGCCGTGTGCAATGACTATGCCTCTGGCTACCATTATGGGGTCTGGTCTCGCAAGGCTGCAAG  
 GCTTTCTTTAAGAGAAGCATTCAAGGACACAATGACTACATGTGTCCAGCTACAAACCAATGCACCATTG  
 ACAAGAACCGGAGGAAGAGTTGCCAGGCCGTGTCGGCTGCGCAAGTGTACGAAGTGGGCATGATGAAAGG  
 CGGCATACGGAAGACCGCCGAGGAGGGAGAATGTTGAAGCACAAGCGTCAGAGAGATGACTTGGAAAGC  
 CGAAATGAAATGGGTGCTTCAGGAGACATGAGGGCTGCCAACCTTTGGCCAAGCCCTCTTGATTAAGC  
 AACTAAGAAGAATAGCCCTGCCTTGTCTTGCACAGCTGACCAGATGGTCAGTGCCTTGTGGATGCTGA  
 ACCGCCATGATCTATTCTGAATATGATCCTTCTAGACCCTTCAGTGAAGCCTCAATGATGGGCTTATTG  
 ACCAACCTAGCAGATAGGGAGCTGGTTCATATGATCAACTGGGCAAAGAGAGTCCAGGCTTTGGGGACT  
 TGAATCTCCATGATCAGTCCACCTTCTCGAGTGTGCTGGCTGGAGATTCTGATGATTGGTCTCGTCTG  
 GCGTCCATGGAACACCGGGGAAGCTCCTGTTTGTCTCCTAACTTGTCTGACAGGAATCAAGGTAAA  
 TGTGTGGAAGGCATGGTGGAGATCTTTGACATGTTGCTGGCTACGTCAAGTCGGTTCCGCATGATGAACC  
 TGCAGGGAGAAGAGTTTGTGTCCTCAAATCCATCATTTTGTCTAATTCCGGAGTGTACACGTTTCTGTC  
 CAGCACCTTGAAGTCTCTGGAAGAGAAGGACCACATCCACCGTGTCTGGACAAGATCACAGACACTTTG  
 ATCCACCTGATGGCAAAGCTGGCCTGACTCTGCAGCAGCAGCATCGCCGCTAGCTCAGCTCCTTCTCA  
 TTCTTTCCATATCCGGCACATGAGTAACAAAGGCATGGAGCATCTCTACAACATGAAATGCAAGAACGT  
 TGTGCCCTCTATGACCTGCTCCTGGAGATGTTGGATGCCACCGCCTTCATGCCCCAGCCAGTCGCATG  
 GGAGTGCCCCCAGAGGAGCCAGCCAGACCCAGCTGGCCACCACCAGCTCCACTTCAGCACATTCCTTAC  
 AAACCTACTACATACCCCGGAAGCAGAGGGCTTCCCCAACACGATC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001302532
- 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\\_001302532.1](#), [NP\\_001289461.1](#)

**RefSeq Size:** 6358 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 (3) 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.