

# Recombinant Full Length Human ESR1 Protein, GST-tagged

Cat. No. ESR1-4720HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human ESR1 full-length ORF ( AAI28574.1, 1 a.a. - 595 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	595 amino acids
<b>Description</b>	This gene encodes an estrogen receptor, a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. The protein localizes to the nucleus where it may form a homodimer or a heterodimer with estrogen receptor 2. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Estrogen receptors are also involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative promoter usage and alternative splicing result in dozens of transcript variants, but the full-length nature of many of these variants has not been determined. [provided by RefSeq, Mar 2014]
<b>Molecular Mass</b>	92.6 kDa
<b>AA Sequence</b>	MTMTLHTKASGMALLHQIQGNELEPLNRPQLKIPLERPLGEVYLDSSKPAVYNYPEG AAYEFNAAAAANAQVYGQTGLPYGPGSEAAAFGSNGLGGFPPLNSVSPSPLMLLHP PPQLSPFLQPHGQQVPYYLENEPSGYTVREAGPPAFYRPNSDNRRQGGRRERLAST

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NDKGSMAVESAKETRYCAVCNDYASGYHYGVWSCEGCKAFFKRSIQGHNDYMCP  
 ATNQCTIDKNRRKSCQACRLRKCYEVGMMKGGIRKDRRGGRMLKHKRQRDDGEG  
 RGEVGSAGDMRAANLWPSPLMIKRSKKNLALSLTADQMVSALLDAEPPILYSEYDP  
 TRPFSEASMMGLLTNLADRELVHMINWAKRVPGFVDLTLHDQVHLLLECAWLEILMIG  
 LVWRSMEHPGKLLFAPNLLDRNQGKCVEGMVEIFDMLLATSSRFMMNLQGEEF  
 VCLKSIILLNSGVYTFLSSTLKSLEEKDHIHRVLDKITDTLIHLMKAGLTLQQHQRLA  
 QLLLILSHIRHMSNKGMEHLYSMKCKNVVPLYDLLLEMLDAHRLHAPTSRGGASVEE  
 TDQSHLATAGSTSSSHLQKYYITGEAEGFPATV

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

**ESR1** estrogen receptor 1 [ Homo sapiens ]

**Official Symbol**

**ESR1**

**Synonyms**

ESR1; estrogen receptor 1; ESR; estrogen receptor; Era; NR3A1; ER-alpha; estradiol receptor; estrogen nuclear receptor alpha; estrogen receptor alpha delta 4 +49 isoform; nuclear receptor subfamily 3 group A member 1; estrogen receptor alpha 3\*,4,5,6,7\*/822 isoform; estrogen receptor alpha delta 4\*,5,6,7\*/654 isoform; estrogen receptor alpha delta 4\*,5,6,7,8\*/901 isoform; estrogen receptor alpha delta

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3\*,4,5,6,7\*/819-2 isoform; estrogen receptor alpha delta 3\*,4,5,6,7\*,8\*/941 isoform;  
ER; ESRA; DKFZp686N23123;

**Gene ID** 2099

**mRNA Refseq** NM\_000125

**Protein Refseq** NP\_000116

**MIM** 133430

**UniProt ID** P03372

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