

## Recombinant Human ESR2, GST-tagged

**Cat. No.** ESR2-122H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Human GST-tagged Estrogen receptor beta ligand-binding domain (ER $\beta$ -LBD) consists of a 218 a.a. GST tag, a 30 a.a. flexible linker and a 346 a.a. ER $\beta$ -LBD, Acc# NP\_001428, amino acids 243-530, was expressed in baculovirus-infected insect cells and purified using affinity chromatography.

**Species**      Human

**Source**      Sf9 Cells

**Description**      Estrogen receptor beta (ER $\beta$ ) is also known as NR3A2 (nuclear receptor subfamily 3, group A, member 2).

**Form**      50 mM Tris-HCl pH 8.0, 150 mM NaCl, 0.5 mM EDTA, 20 mM Na<sub>2</sub>MoO<sub>4</sub>, 7 mM reduced glutathione, 20% glycerol.

**Purity**      >90%

**Applications**      Ligand binding and coactivator peptide recruitment assays.

**Storage**      Immediately store at -80°C. Avoid freeze-thaw cycles. While working, please keep sample on ice.

### GENE INFORMATION

**Gene Name**      [ESR2 estrogen receptor 2 \(ER beta\) \[ Homo sapiens \]](#)

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Official Symbol</b>	ESR2
<b>Synonyms</b>	ESR2; estrogen receptor 2 (ER beta); estrogen receptor beta; Erb; NR3A2; estrogen receptor beta 4; estrogen nuclear receptor beta variant a; estrogen nuclear receptor beta variant b; nuclear receptor subfamily 3 group A member 2; ESRB; ESTRB; ER-BETA; ESR-BETA;
<b>Gene ID</b>	2100
<b>mRNA Refseq</b>	<a href="#">NM_001040275</a>
<b>Protein Refseq</b>	<a href="#">NP_001035365</a>
<b>MIM</b>	601663
<b>UniProt ID</b>	<a href="#">Q92731</a>
<b>Chromosome Location</b>	14q21-q22
<b>Pathway</b>	Androgen Receptor Signaling Pathway, organism-specific biosystem; Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Nuclear Receptor transcription pathway, organism-specific biosystem; Nuclear Receptors, organism-specific biosystem; Ovarian Infertility Genes, organism-specific biosystem; Plasma membrane estrogen receptor signaling, organism-specific biosystem;
<b>Function</b>	DNA binding; core promoter sequence-specific DNA binding; enzyme binding; estrogen receptor activity; estrogen response element binding; ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity; metal ion binding; protein binding; receptor activity; receptor antagonist activity; sequence-

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



specific DNA binding; sequence-specific DNA binding transcription factor activity;  
steroid binding; steroid hormone receptor activity; transcription coactivator activity;  
zinc ion binding;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA