

## Product datasheet for **SC329907**

### Estrogen Receptor beta (ESR2) (NM\_001214903) Human Untagged Clone

#### Product data:

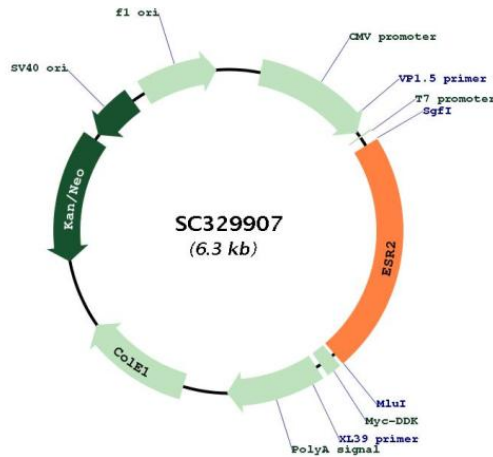
**Product Type:** Expression Plasmids  
**Product Name:** Estrogen Receptor beta (ESR2) (NM\_001214903) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ESR2  
**Synonyms:** ER-BETA; Erb; ESR-BETA; ESRB; ESTRB; NR3A2  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC329907 representing NM\_001214903.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGATATAAAAACTCACCATCTAGCCTTAATTCTCCTTCTCCTACAACCTGCAGTCAATCCATCTTA
CCCCTGGAGCACGGCTCCATATACATACCTTCTCCTATGTAGACAGCCACCATGAATATCCAGCCATG
ACATTCTATAGCCCTGCTGTGATGAATTACAGCATTCCCAGCAATGCTACTAAGTGAAGGTGGGCCT
GGTCGGCAGACCACAAGCCAAATGTGTTGTGGCCAACACCTGGGCACCTTTCTCCTTTAGTGGTCCAT
CGCCAGTTATCACATCTGTATGCGGAACCTCAAAGAGTCCCTGGTGTGAAGCAAGATCGCTAGAACAC
ACCTTACCTGTAACAGAGAGACTGAAAAGGAAGTTAGTGGGAACCGTTGCGCCAGCCCTGTTACT
GGTCCAGGTTCAAAGAGGGATGCTCACTTCTGCGCTGTCTGCAGCGATTACGCATCGGGATACACTAT
GGAGTCTGGTCTGTGAAGGATGTAAGGCCTTTTTAAAAGAAGCATTCAAGGACATAATGATTATATT
TGTCCAGCTACAAATCAGTGTACAATCGATAAAAAACCGGCGCAAGAGCTGCCAGGCCTGCCGACTTCGG
AAGTGTACGAAGTGGGAATGGTGAAGTGTGGCTCCCGGAGAGAGAGATGTGGGTACCGCCTTGTGCGG
AGACAGAGAAGTGCCGACGAGCAGCTGCACTGTGCCGCAAGGCCAAGAGAAGTGGCGGCCACGCGCCC
CGAGTGGGGAGCTGCTGCTGGACGCCCTGAGCCCCGAGCAGCTAGTGCTCACCTCCTGGAGGCTGAG
CCGCCCCATGTGCTGATCAGCCGCCCAAGTGGCCCTTCCAGGAGCCTCCATGATGATGTCCTGACC
AAGTTGGCCGACAAGGATTGGTACACATGATCAGCTGGGCCAAGAAGATCCCGGCTTTGTGGAGCTC
AGCCTGTTGACCAAGTGGGCTCTTGGAGAGCTGTTGGATGGAGGTGTTAATGATGGGGCTGATGTGG
CGCTCAATTGACCACCCCGCAAGCTCATCTTTGCTCCAGATCTTGTCTGGACAGGGATGAGGGGAAA
TGCGTAGAAGGAATTCTGGAAATCTTTGACATGCTCCTGGCAACTACTTCAAGGTTTCGAGAGTTAAAA
CTCCAACACAAAGAATATCTCTGTGCAAGGCCATGATCCTGCTCAATCCAGTATGTACCCTCTGGTC
ACAGCGACCCAGGATGCTGACAGCAGCCGGAAGCTGGCTCACTTGTGCTGAACGCCGTGACCGATGCTTTG
GTTTGGGTGATTGCAAGAGCGGCATCTCTCCAGCAGCAATCCATGCGCCTGGCTAACCTCCTGATG
CTCCTGTCCCACGTCAGGCATGCGAGGTACGCGCCCTAA
```

**Restriction Sites:** Sgfl-MluI



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**Plasmid Map:**


**ACCN:** NM\_001214903

**Insert Size:** 1419 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).

**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\\_001214903.1](#)

**RefSeq Size:** 1579 bp

**RefSeq ORF:** 1419 bp

**Locus ID:** 2100

**Cytogenetics:** 14q23.2-q23.3

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<b>Protein Families:</b>	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
<b>MW:</b>	53 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of the family of estrogen receptors and superfamily of nuclear receptor transcription factors. The gene product contains an N-terminal DNA binding domain and C-terminal ligand binding domain and is localized to the nucleus, cytoplasm, and mitochondria. Upon binding to 17beta-estradiol or related ligands, the encoded protein forms homo- or hetero-dimers that interact with specific DNA sequences to activate transcription. Some isoforms dominantly inhibit the activity of other estrogen receptor family members. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been fully characterized. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (e) differs in the 3' UTR and coding sequence compared to variant a. The resulting isoform (4, also known as ER-beta5) has a shorter and distinct C-terminus compared to isoform 1.</p>