

Product datasheet for **SC310979**

Estrogen Receptor beta (ESR2) (NM_001040275) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Estrogen Receptor beta (ESR2) (NM_001040275) Human Untagged Clone
Tag:	Tag Free
Symbol:	Estrogen Receptor beta
Synonyms:	ER-BETA; Erb; ESR-BETA; ESRB; ESTRB; NR3A2; ODG8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001040275 edited
 ATGGATATAAAAACTCACCATCTAGCCTTAATTCTCCTTCCTCCTACAACCTGCAGTCAA
 TCCATCTTACCCCTGGAGCACGGCTCCATATACATACCTTCCTCCTATGTAGACAGCCAC
 CATGAATATCCAGCCATGACATTCTATAGCCCTGCTGTGATGAATTACAGCATTCCCAGC
 AATGTCACATAACTTGAAGGTGGCCTGGTCGGCAGACCACAAGCCCAAATGTGTTGTGG
 CCAACACCTGGGCACCTTCTCCTTTAGTGGTCCATCGCCAGTTATCACATCTGTATGCG
 GAACCTCAAAGAGTCCCTGGTGTGAAGCAAGATCGCTAGAACACACCTTACCTGTAAAC
 AGAGAGACTGAAAAGGAAGGTTAGTGGGAACCGTTGCGCCAGCCCTGTTACTGGTCCA
 GGTTCAAAGAGGGATGCTCACTTCTGCGCTGTCTGCAGCGATTACGCATCGGGATACAC
 TATGGAGTCTGGTCGTGAAGGATGTAAGGCCTTTTTTAAAAGAAGCATTCAAGGACAT
 AATGATTATATTTGTCCAGCTACAAATCAGTGTACAATCGATAAAAACCGGCGCAAGAGC
 TGCCAGGCTGCCGACTTCGGAAGTGTACGAAGTGGGAATGGTGAAGTGTGGCTCCCGG
 AGAGAGAGATGTGGGTACCGCCTTGTGCGGAGACAGAGAAGTGGCGACGAGCAGCTGCAC
 TGTGCCGCAAGGCCAAGAGAAGTGGCGGCCACGCGCCCCGAGTGGGGAGCTGTGCTG
 GACGCCCTGAGCCCCGAGCAGCTAGTGCTCACCCTCCTGGAGGCTGAGCCGCCCATGTG
 CTGATCAGCCGCCCAGTGCGCCCTTACCAGGCCTCCATGATGATGTCCTGACCAAG
 TTGGCCGACAAGGAGTTGGTACACATGATCAGCTGGGCCAAGAAGATCCCAGCTTTGTG
 GAGCTCAGCCTGTTGACCAAGTGCAGCTTTGGAGAGCTGTTGGATGGAGGTGTTAATG
 ATGGGGCTGATGTGGCGCTCAATTGACCACCCCGCAAGCTCATCTTTGCTCCAGATCTT
 GTTCTGGACAGGATGAGGGGAAATGCCGTAGAAGGAATCTGGAATCTTTGACATGCTC
 CTGGCACTACTTCAAGTTTCGAGAGTTAAAACCTCAAACACAAAAGAATATCTCTGTGTC
 AAGGCCATGATCCTGCTCAATCCAGTATGTACCCTCTGGTCACAGCGACCCAGGATGCT
 GACAGCAGCCGGAAGCTGGCTCACTTGTGAACGCCGTGACCGATGCTTTGGTTGGGTG
 ATTGCCAAGAGCGGCATCTCTCCAGCAGCAATCCATGCGCCTGGCTAACCTCCTGATG
 CTCCTGTCCACGTCAGGCATGCGAGGGCAGAAAAGGCCTCTCAAACACTCACCTCATT
 GGAATGAAGATGGAGACTCTTTGCCTGAAGCAACGATGGAGCAGTGA



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Restriction Sites:	Please inquire
ACCN:	NM_001040275
Insert Size:	1500 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001040275.1</u> , <u>NP_001035365.1</u>
RefSeq Size:	2470 bp
RefSeq ORF:	1488 bp
Locus ID:	2100
UniProt ID:	<u>Q92731</u>
Cytogenetics:	14q23.2-q23.3
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Gene Summary:

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]

Transcript Variant: This variant (b, also known as 2) differs in the 3' UTR and 3' coding sequence, compared to variant a. The resulting isoform (2) has a distinct and shorter C-terminus, compared to isoform 1, and dominantly inhibits the activity of other estrogen receptor family members. Variants b, k and m encode the same isoform 2.