

Product datasheet for **MC218802**

Esr2 (NM_010157) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esr2 (NM_010157) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Esr2
Synonyms:	ERbeta; ER[b]; Estrb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC218802 representing NM_010157
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCATCTGTGCCTCTTCTCACAAAGGATTTTTCTCAGCTGAGACCTACGCAAGACATGGAGATCAAAA
ACTCACCATCAAGCCTTACTTCCCTGCTTCTATAAAGTGTAGCCAGTCCATCCTACCCTTGGAGCATGG
TCCCATCTATATCCCTTCTCCTATGTAGAGAGCCGTCACGAATACTCAGCCATGACATTCTACAGTCTT
GCTGTGATGAACTACAGTGTCCAGCAGCACCGGTAACCTGGAAGGTGGGCTGTTCCGCCAGACTGCAA
GCCAAATGTGCTATGGCCAACCTCTGGACACCTCTCTCTTTAGCCACCCACTGCCAATCATCGCTTCT
CTATGCAGAACCTCAAAGAGTCTTGGTGTGAAGCAAGATCACTAGAACACACCTTGCCTGTAACAGA
GAGACCCTGAAGAGGAAGCTTGGCGGGAGCGGTTGTGCCAGCCCTGTTACTAGTCCAAGCGCCAAGAGGG
ATGCTCACTTCTGCGCCGTCTGCAGTGATTATGCATCTGGGTATCATTACGGTGTCTGGTCTGTGAAGG
ATGTAAGGCCTTTTTTAAAAGAAGCATTCAAGGACATAATGACTATATCTGTCCAGCCACGAATCAGTGT
ACCATAGACAAGAACCGCGTAAAAGCTGCCAGGCCTGCCGACTTCGCAAGTGTTACGAAGTAGGAATGG
TCAAGTGTGGATCCAGGAGAGAAAGGTGTGGGTACCGAATAGTACGAAGACAGAGAAGTGCCAGCGAGCA
GGTGCATTGCCTGAACAAAGCCAAGAGAACCAGTGGGCACACACCCCGGTGAAGGAGCTACTGTGAAC
TCTCTGAGTCCCAGCAGCTGGTCTCACCTGCTGGAAGCTGAGCCACCCAATGTGCTAGTGAGCCGTC
CCAGCATGCCCTTACCAGAGCCCTCCATGATGATGTCCCTCACGAAGCTGGCTGACAAGGAACTGGTGCA
CATGATTGGCTGGGCCAAGAAAATCCCTGGCTTGTGGAGCTCAGCCTGTTGGACCAAGTCCGCCTTTG
GAAAGCTGCTGGATGGAGGTCTGATGGTGGGGCTGATGTGGCGCTCCATCGACCACCCCGCAAGCTCA
TCTTTGCTCCAGACCTCGTTCTGGACAGGGATGAGGGGAAGTGGTGGAAGGGATTCTGGAAATCTTTGA
CATGCTCCTGGCGACGACGGCACGGTTCCGTGAGTTAAAAGTGCAGCACAAAGAATATCTGTGTGAAG
GCCATGATTCTCCTCAACTCCAGTATGTACCCCTTGGCTACCGCAAGCCAGGAAGCAGAGAGTAGCCGGA
AGCTGACACACCTATTGAACGCAGTGACAGATGCCCTGGTCTGGGTGATTTCAAGAGTGGAAATCTCTTC
CCAGCAGCAGTCACTCCGTCTGGCCAACCTCCTGATGCTTCTTTCTCATGTCAGGCACATCAGTAACAAG
GGCATGGAACATCTGCTCAGCATGAAGTGCAAAAATGTGGTCCCGGTGTACGACCTGCTGCTGGAGATGC
TGAATGCTCACACGCTTCGAGGGTACAAGTCTCAATCTCGGGGTCTGAGTGTCTCGACAGAGGACAG
TAAGAGCAAAGAGGGCTCCAGAACCTCCAGTCACAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2655_d02.zip

Restriction Sites: SgfI-MluI

ACCN: NM_010157

Insert Size: 1650 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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:	NM_010157.3 , NP_034287.3
RefSeq Size:	3308 bp
RefSeq ORF:	1650 bp
Locus ID:	13983
UniProt ID:	O08537
Cytogenetics:	12 33.52 cM
Gene Summary:	<p>Nuclear hormone receptor. Binds estrogens with an affinity similar to that of ESR1 (ER-alpha), and activates expression of reporter genes containing estrogen response elements (ERE) in an estrogen-dependent manner. May play a role in ovarian follicular growth and maturation. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1.</p>