

## Product datasheet for **MR227140**

### **Esr2 (NM\_010157) Mouse Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>MR227140 representing NM\_010157  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCATCTGTGCTCTTCTCACAAAGGATTTTTCTCAGCTGAGACCTACGCAAGACATGGAGATCAAAA  
 ACTCACCATCAAGCCTTACTTCCCTGCTTCTATAAAGTGTAGCCAGTCCATCCTACCCCTGGAGCATGG  
 TCCCATCTATATCCCTTCTCTATGTAGAGAGCCGTCACGAATACTCAGCCATGACATTCTACAGTCTT  
 GCTGTGATGAACTACAGTGTCCAGCAGCACCAGTAACTGGAAGGTGGGCTGTTCCGCCAGACTGCAA  
 GCCAAATGTGCTATGGCCAACTCTGGACACCTCTCTCTTTAGCCACCCACTGCCAATCATCGCTTCT  
 CTATGCAGAACCTCAAAGAGTCTTGGTGTGAAGCAAGATCACTAGAACACACCTTGCCTGTAACAGA  
 GAGACCTGAAGAGGAAGCTTGGCGGGAGCGGTTGTGCCAGCCCTGTTACTAGTCCAAGCGCAAGAGGG  
 ATGCTCACTTCTGCGCCGTCTGCAGTGATTATGCATCTGGGTATCATTACGGTGTCTGGTCTGTGAAGG  
 ATGTAAGGCCTTTTTTAAAAGAAGCATTCAAGGACATAATGACTATATCTGTCCAGCCACGAATCAGTGT  
 ACCATAGACAAGAACCGCGTAAAAGCTGCCAGGCCTGCCGACTTCGCAAGTGTACGAAGTAGGAATGG  
 TCAAGTGTGGATCCAGGAGAGAAAGGTGTGGGTACCGAATAGTACGAAGACAGAGAAGTCCAGCGAGCA  
 GGTGCATTGCCTGAACAAAGCCAAGAGAACCAGTGGGCACACACCCCGGTGAAGGAGCTACTGTGAAC  
 TCTCTGAGTCCCAGCAGCTGGTCTCACCTGCTGGAAGCTGAGCCACCCAATGTGCTAGTGAGCCGTC  
 CCAGCATGCCCTTACCAGAGGCTCCATGATGATGTCCCTCACGAAGCTGGCTGACAAGGAACTGGTGA  
 CATGATTGGCTGGGCCAAGAAAATCCCTGGCTTGTGGAGCTCAGCCTGTTGGACCAAGTCCGCCTTTG  
 GAAAGCTGCTGGATGGAGGTGCTGATGGTGGGGCTGATGTGGCGCTCCATCGACCACCCCGCAAGCTCA  
 TCTTTGCTCCAGACCTCGTTCTGGACAGGGATGAGGGGAAAGTGGTGGAAAGGATTCTGGAAATCTTTGA  
 CATGCTCCTGGCGACGACGGCACGGTCCGTGAGTTAAAAGTGCAGCACAAAGAATATCTGTGTGGAAG  
 GCCATGATTCTCCTCAACTCCAGTATGTACCCCTTGGCTACCGCAAGCCAGGAAGCAGAGAGTAGCCGGA  
 AGCTGACACACCTATTGAACGCAGTGACAGATGCCCTGGTCTGGGTGATTTCAAGAGTGGAAATCTCTTC  
 CCAGCAGCAGTCCGTCTGGCCAACCTCCTGATGCTTCTTTCTCATGTCAGGCACATCAGTAACAAG  
 GGCATGGAACATCTGCTCAGCATGAAGTCAAAAATGTGGTCCCGGTGTACGACCTGCTGCTGGAGATGC  
 TGAATGCTCACACGCTTCGAGGGTACAAGTCTCAATCTCGGGGTCTGAGTGTCTCGACAGAGGACAG  
 TAAGACAAAGAGGGCTCCAGAACCTCCAGTCACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR227140 representing NM\_010157  
 Red=Cloning site Green=Tags(s)

MSICASSHKDFSQLRPTQDMEIKNSPSSLTSPASYNCSQSILPLEHGPIYIPSSYVESRHEYSAMTFYSP  
 AVMNYSVPSSTGNLEGGPVRQTASPNVLWPTSGHL SPLATHCQSSLLYAEPOKSPWCEARSLEHTLPVNR  
 ETLKRKLGSGCASPVTSPSAKRDAHFCAVCSDYASGYHYGVWSCEGCKAFFKRSIQGHNDYICPATNQ  
 TIDKNRRKSCQACRLRKYEVMVKCGSRRRCGYRIVRRQRSASEQVHCLNKAKRTSGHTPRVKELLLN  
 SL SPEQLVLTLEAEPPNVLVSRPMPFTEASMMSLTKLADKELVHMIGWAKKIPGFVELSLLDQVRL  
 ESCWMEVLMVGLMWRSIDHPGKLI FAPDLVDRDEGKCV EGI LEIFDMLLATTARFRELKQHKYLCVK  
 AMILLNSSMYPLATASQEAESSRKLTHLLNAVTDALVWVISKSGISSQQQSVRLANLLMLLSHVRHISNK  
 GMEHLLSMKCKNVVPPVYDLLLLLEMLNAHTLRGYKSSISGSECCSTEDSKSKEGSQNLQSQ

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

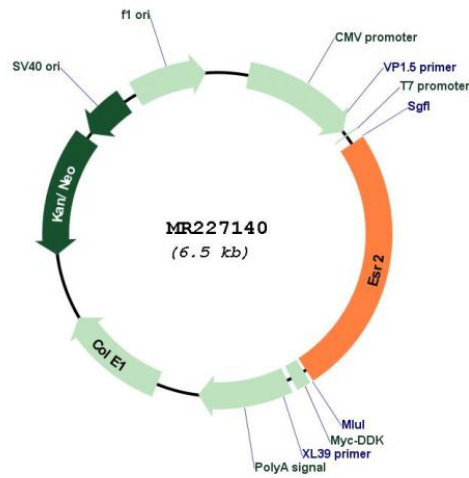
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_010157
<b>ORF Size:</b>	1647 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_010157.3</a> , <a href="#">NP_034287.3</a>
<b>RefSeq Size:</b>	3308 bp
<b>RefSeq ORF:</b>	1650 bp
<b>Locus ID:</b>	13983
<b>UniProt ID:</b>	<a href="#">O08537</a>
<b>Cytogenetics:</b>	12 33.52 cM
<b>MW:</b>	61.7 kDa
<b>Gene Summary:</b>	<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>