

## Product datasheet for **RN215023**

### **Esr1 (NM\_012689) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Esr1 (NM_012689) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Esr1
Synonyms:	ER-alpha; Esr; RNESTROR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN215023 representing NM\_012689  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACCATGACCCTTACACCAAAGCCTCGGGAATGGCCTTGTTCACCAGATCCAAGGGAACGAGCTGG  
 AGCCCCTCAATCGCCCGCAGCTCAAGATGCCCATGGAGAGGGCTCTGGGCGAGGTGTACGTGGACAACAG  
 CAAGCCC GCCGTGTTCAACTACCCCGAGGGCGCCGCTACGAGTTCAACGCCCGCCGCCGCCGCCGCC  
 GCCGGGCTCGGCTCCGGTCTATGGCCAGTCGAGCATCACTTACGGTCCGGGGTCCGAGGCGGCCGCT  
 TTGGTGCCAAATAGTCTGGGGCTTTCCCCAGCTCAACAGCGTGTGCCAGTCCGCTGATGCTGCTGCA  
 CCCGCCGCCGACGTGTCCGGTTCCTGCACCCGCATGGCCACCAGGTGCCCTACTACCTGGAGAACGAG  
 CCCAGCGCTACGCTGTACGCGACACCGGCCCTCCCGCTTCTACAGTCCAATTCTGACAATCGACGCC  
 AGAATGGCCGAGAGACTCTCCAGCAGCAGGAGAAGGAAACATGATCATGGAGTCTGCCAAGGAGAC  
 TCGCTACTGTGTGTGTAAACGACTATGCCTCTGGCTACCATTATGGGGTCTGGTCTGTGAAGGCTGC  
 AAGGCTTTCTTTAAGAGAAGCATTCAAGGACATAATGACTACATGTGTCCAGCTACAAAACCAATGCACCA  
 TCGATAAGAACC GGAGGAAGAGTTGCCAGGCTGCCGGCTGCGCAAGTGTACGAAGTGGGCATGATGAA  
 AGCGGGATACGAAAAGACCGCCGAGGAGGGAGAATGTTGAAGCACAAGCGTCAGAGAGATGACTTGGAA  
 GGCCGAAATGAAATGGGCACTTCAGGAGACATGAGAGCTGCCAACCTTTGGCCAAGTCCACTTGTGATCA  
 AGCACACTAAGAAGAATAGCCCCGCCCTGTCTTGACAGCTGACCAGATGGTCAGTGCCTTATTGGATGC  
 TGAACCACCTTTGATCTATTCTGAATATGATCCTTCTAGACCTTCAGTGAAGCCTCAATGATGGGCTTA  
 TTGACCAACCTGGCAGACAGGGAGCTGGTTCATATGATCAACTGGGCAAAGAGAGTGCAGGCTTTGGGG  
 ACTTGAATCTCCACGATCAAGTTCACCTTCTGGAGTGTGCCTGGTTGGAGATCCTGATGATTGGTCTGGT  
 CTGGCGCTCCATGGAACACCCGGGAAGCTCCTGTTTGCTCCTAACTTGCTCTTGACAGGAATCAAGGT  
 AAATGTGTAGAAGGCATGGTGGAGATCTTTGACATGTTGCTGGCTACGTCAAGTCGATTCGCATGATGA  
 ACCTGCAGGGAGAAGAGTTTGTGTGCCTCAAATCAATCATTTTGTCTAATTCTGGAGTGTACACATTTCT  
 ATCCAGCACCTTGAAGTCTCTGGAAGAGAAGGACCACATCCACCGAGCTCTGGACAAGATCAACGACACT  
 TTGATCCACTTGATGGCCAAAGCTGGCCTGACTCTGCAGCAACAGCATCGCCGCTGGCCCAGCTCCTCC  
 TCATCCTTTCCCATATCCGGCACATGAGTAACAAAGGCATGGAGCATCTCTACAACATGAAATGCAAGAA  
 TGTGCTGCCTCTCTATGACCTGCTGCTGGAGATGCTGGATGCTCATCGTCTTCATGCCCCCGCCAGTCCG  
 ATGGGAGTGGCCCGGAGGAGCCTAGCCAGAGCCAGCTGACCACCACCAGCTCCACTTCAGCACATTCTCT  
 TACAACTACTACATCCCCCGGAAGCAGAGGGCTTCCCAACACCAT**CTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2349\\_g01.zip](https://cdn.origene.com/chromatograms/ja2349_g01.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_012689

**Insert Size:** 1803 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_012689.1](#), [NP\\_036821.1](#)

**RefSeq Size:** 2090 bp

**RefSeq ORF:** 1803 bp

**Locus ID:** 24890

**UniProt ID:** [P06211](#)

**Cytogenetics:** 1q11

**Gene Summary:** acts as a transcriptional activator when bound to estrogen; may play a role in myocardial regulation [RGD, Feb 2006]