

Product datasheet for **RR215023**

Esr1 (NM_012689) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esr1 (NM_012689) Rat Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>RR215023 representing NM_012689
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCATGACCCTTACACCAAAGCCTCGGGAATGGCCTTGTTCACCAGATCCAAGGGAACGAGCTGG
 AGCCCTCAATCGCCCGCAGCTCAAGATGCCCATGGAGAGGGCTCTGGGCGAGGTGTACGTGGACAACAG
 CAAGCCCGCCGTGTTCAACTACCCGAGGGCGCCGCTACGAGTTCAACGCCGCCGCCGCCGCCGCCGCC
 GCCGGGCTCGGCTCCGGTCTATGGCCAGTCGAGCATCACTTACGG[AT]CCGGGGTCCGAGGCGGCCG
 CCTTTGGTGCCAATAGTCTGGGGCTTTCCCCAGCTCAACAGCGTGTGCCAGTCCGCTGATGCTGCT
 GCACCCGCCGCCGACGTGTCCGCTTCTGCACCCGATGGCCACCAGGTGCCCTACTACCTGGAGAAC
 GAGCCAGCGCTACGCTGTACGCGACACCGCCCTCCCGCTTCTACAGTCCAATTCTGACAATCGAC
 GCCAGAATGGCCGAGAGAGACTCTCCAGCAGCAGCGAGAAGGAAACATGATCATGGAGTCTGCCAAGGA
 GACTCGCTACTGTGCTGTGTAAAGACTATGCCTCTGGCTACCATTATGGGGTCTGGTCTGTGAAGGC
 TGCAAGGCTTTCTTTAAGAGAAGCATTCAAGGACATAATGACTACATGTGTCCAGCTACAACCAATGCA
 CCATCGATAAGAACCGGAGGAAGAGTTGCCAGGCTGCCGGCTGCGCAAGTGTACGAAGTGGGCATGAT
 GAAAGGCGGGATACGAAAAGACCGCCGAGGAGGAGAATGTTGAAGCACAAAGCGTCAGAGAGATGACTTG
 GAAGGCCGAAATGAAATGGGCACCTCAGGAGACATGAGAGCTGCCAACCTTTGGCCAAGTCCACTTGTGA
 TCAAGCACACTAAGAAGAATAGCCCCGCTGTCTTGACAGCTGACCAGATGGTCAGTGCCTTATTGGA
 TGCTGAACCACCTTTGATCTATTCTGAATATGATCCTTAGACCCTTCAAGTGAAGCCTCAATGATGGGC
 TTATTGACCAACCTGGCAGACAGGGAGCTGGTTCATATGATCAACTGGGCAAAGAGAGTCCAGGCTTTG
 GGCATTTGAATCTCCACGATCAAGTTCACCTTCTGGAGTGTGCCTGGTTGGAGATCCTGATGATGGTCT
 GGCTGGCGCTCCATGGAACACCCGGGAAGCTCCTGTTGCTCCTAAGTGGTCTTGGACAGGAATCAA
 GGTAAATGTGTAGAAGGCATGGTGGAGATCTTTGACATGTTGCTGGCTACGTCAAGTTCGATTCCGCATGA
 TGAACCTGCAGGGAGAAGAGTTTGTGTGCCTCAAATCAATCATTTTGTAAATTCTGGAGTGTACACATT
 TCTATCCAGCACCTTGAAGTCTCTGGAAGAGAAGGACCACATCCACCGAGTCTGGACAAGATCAACGAC
 ACTTTGATCCACTTGTGGCCAAAGCTGGCCTGACTCTGCAGCAACAGCATCGCCGTCTGGCCAGCTCC
 TCCTCATCTTTCCCATATCCGGCACATGAGTAACAAAGGCATGGAGCATCTCTACAACATGAAATGCAA
 GAATGTGCTGCCTCTATGACCTGCTGCTGGAGATGCTGGATGCTCATCGTCTCATGCCCCGCCAGT
 CGCATGGGAGTGGCCCGGAGGAGCCTAGCCAGAGCCAGCTGACCACCACAGCTCCACTTCAGCACATT
 CCTTACAACCTACTACATCCCCCGGAAGCAGAGGGCTTCCCCAACACCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR215023 representing NM_012689
 Red=Cloning site Green=Tags(s)

MTMLHTKASGMALLHQIQGNELEPLNRPQLKMPMERALGEVYVDNSKPAVFNYPEGAAAYEFNAAAAAAA
 AGASAPVYQSSITYXXPGSEAAAFGANSLGAFPQLNSVSPSPLMLLHPPPHVSPFLHHPHGHQVPPYLEN
 EPSAYAVRDTGPPAFYRSNSDNRRQNGRERLSSSEKGNMIMESAKETRYCAVCNDYASGYHYGVWSCEG
 CKAFFKRSIQGHNDYMCPATNQCTIDKNRRKSCQACRLRKYEVGMMKGGIRKDRRGRMLKHKRQRDDL
 EGRNEMGTSGDMRAANLWPSPLVIKHTKKNPALSLTADQMVSAALLDAEPPLIYSEYDPSRPFSEASMMG
 LLTNLADRELVHMINWAKRVPFGDLNLHDQVHLLLECAWLEILMIGLVWRSMEHPGKLLFAPNLLDRNQ
 GKCVEGMVEIFDMLLATSSFRMMNLQGEFVCLKSIILLNSGVYTFLLSSTLKSLEEKDHIHRVLDKIND
 TLIHLMKAGLTLQQHRRLAQLLLILSHIRHMSNKGMEHLYNMKCKNVVPLYDLLEMLDAHRLHAPAS
 RMGVPPEEPSQSLTTTSSSAHSLQTYIIPPEAEGFPNTI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2168_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012689

ORF Size: 1800 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 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

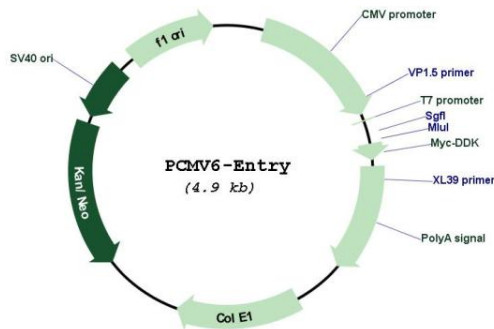
UniProt ID: [P06211](#)

Cytogenetics: 1q11

MW: 67 kDa

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

Product images:



Circular map for RR215023