

Product datasheet for **RR200732**

Esr2 (NM_012754) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esr2 (NM_012754) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Esr2
Synonyms:	ER-beta; Erb2; ERbeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR200732 representing NM_012754
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACATTCTACAGTCTCTGTGTGATGAACTACAGTGTTCCCGCAGCACCAGTAACCTGGACGGTGGG
 CTGTCCGACTGAGCACAAGCCAAATGTGCTATGGCCAACTTCTGGGCACCTGTCTCCTTTAGCGACCCA
 TTGCCAATCATCGCTCCTCTATGCAGAACCTCAAAGAGTCTTGGTGTGAAGCAAGATCACTAGAGCAC
 ACCTTACCTGTAAACAGAGAGACTGAAGAGGAAGCTTAGTGGGAGCAGTTGTGCCAGCCCTGTTACTA
 GTCCAAACGCAAAGAGGGATGCTCACTTCTGCCCGTCTGCAGCGATTATGCATCTGGGTATCATTACGG
 CGTTTGGTCATGTGAAGGATGTAAGGCCTTTTTAAAAGAAGCATTCAAGGACATAATGATTATATCTGT
 CCAGCCACGAATCAGTGTACCATAGACAAGAACCAGCGTAAAAGCTGCCAGGCCTGCCGACTTCGCAAGT
 GTTATGAAGTAGGAATGGTCAAGTGTGGATCCAGGAGAGAACGGTGTGGGTACCGTATAGTCCGGAGGCA
 GAGAAGTTCTAGCGAGCAGGTACACTGCCTGAGCAAAGCCAAGAGAAACGGTGGGCATGCACCCCGGGT
 AAGGAGCTACTGCTGAGCACCTTGAGTCCAGCAACTGGTGCTCACCCCTCTGGAAGCTGAACCACCCA
 ATGTGCTGGTGAAGCCGTCACGATGCCCTTACCAGGCGCTCCATGATGATGTCCCTACTAAGCTGGC
 GGACAAGGAACTGGTGCACATGATTGGCTGGGCCAAGAAAATCCCTGGCTTTGTGGAGCTCAGCCTGTTG
 GACCAAGTCCGGCTTTAGAAAGCTGCTGGATGGAGGTGCTAATGGTGGGACTGATGTGGCGCTCCATCG
 ACCACCCCGCAAGCTCATTTCGCTCCCGACCTGTTCTGGACAGGGATGAGGGGAAGTGCCTAGAAGG
 GATTCTGGAATCTTTGACATGCTCCTGGCGACGACGTCAGGTTCCGTGAGTTAAAACCTCAGCACAAG
 GAGTATCTCTGTGTGAAGCCATGATCCTCCTCAACTCCAGTATGTACCCCTTGGCTTCTGCAAACCAGG
 AGGCAGAAAGTAGCCGGAAGCTGACACACCTACTGAACGCGGTGACAGATGCCCTGGTCTGGGTATTGC
 GAAGAGTGGTATCTCCTCCAGCAGCAGTCCGACTGGCCAACCTCCTGATGCTTCTTCTCACGTC
 AGGCACATCAGTAACAAGGGCATGGAACATCTGCTCAGCATGAAGTGCAAAAATGTGGTCCCGGTGTATG
 ACCTGCTGCTGGAGATGCTGAATGCTCACACGCTTCGAGGGTACAAGTCTCAATCTCGGGGTCTGAGTG
 CAGCTCAACAGAGGACAGTAAGAACAAGAGAGCTCCAGAACCTACAGTCTCAGCAGCTCAACAGAGGA
 CAGTAAGAACAAGAGAGCTCCAGAACCTACAGTCTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200732 representing NM_012754
 Red=Cloning site Green=Tags(s)

MTFYSPAVMNYSPVPGSTSNLDGGPVRLSTSPNVLWPTSGHLSPLATHCQSSLLYAEQKSPWCEARSLEH
 TLPVNRETLKRKLSGSSCASPVTSNKRDAHFPCVCSYASGYHYGVWSCEGCKAFFKRSIQGHNDYIC
 PATNQCTIDKNRRKSCQACRLRKYEVGMVKCGSRRRCYRIVRRQRSSEQVHCLSKAKRNGGHAPRV
 KELLSTLSPEQLVLTLEAEPNVLSRPSMPFTEASMMMSLTKLADKELVHMIWAKKIPGFVELSLL
 DQVRLLESCWMEVLMVGLMWRSIDHPGKLIIFAPDLVDRDEGKCVEGILEIFDMLLATTSRFRELKQHK
 EYLCVKAMILLNSSMYPLASANQEAESSRKLTHLLNAVTDALVWVIAKSGISSQQSVRLANLLMLLSHV
 RHISNKGMEHLLSMKCKNVVPPVDLLEMLNAHTLRGYKSSISGSECSSTEDSKNKESSQNLQSQQLNRG
 Q*EQRELPEPTVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1407_g04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_012754

ORF Size: 1455 bp

OTI Disclaimer: 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 Size: 2555 bp

RefSeq ORF: 1458 bp

Locus ID: 25149

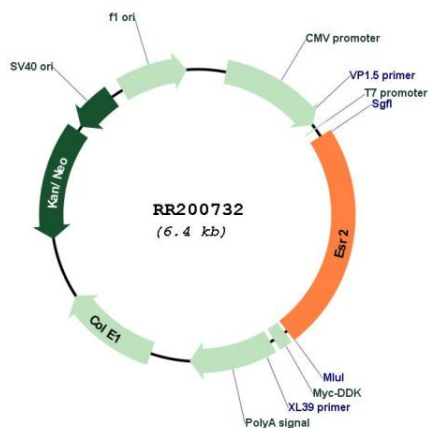
UniProt ID: [Q62986](#)

Cytogenetics: 6q24

MW: 54.2 kDa

Gene Summary: binds estrogen and mediates transcriptional activation [RGD, Feb 2006]

Product images:



Circular map for RR200732