

Product datasheet for **MR225753**

Esrra (NM_007953) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esrra (NM_007953) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Esrra
Synonyms:	Err1; ERRalpha; Estrra; Nr3b1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR225753 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCAGCCAGGTGGTGGGCATCGAGCCTCTCTACATCAAGGCAGAGCCAGCCAGCCCTGACAGTCCAA
 AGGGTTCTCAGAGACTGAGACTGAACCCCGGTGACCCTGGCCTCTGGTCCAGCTCCAGCCCGCTGCCT
 TCCAGGGCACAAGGAGGAGGAGGATGGGAGGGGGCAGGGTCTGGTGAGCAGGGCAGTGGGAAGCTAGTG
 CTCAGCTCTTACCTAAACGCCTCTGCCTGGTCTGTGGGGATGTGGCCTCTGGCTACCACTACGGTGTGG
 CATCTGTGAGGCCTGCAAAGCCTTCTTCAAGAGGACCATCCAGGGGAGCATCGAGTACAGCTGTCCGGC
 CTCCAATGAGTGTGAGATACCAAGCGGAGACGCAAGGCCTGTCAGGCCTGCCGCTTACCAAGTGCCTG
 CGGGTGGGCATGTCAAGGAGGGTGTGCGTTTGGACCGTGTCCGTGGCGGGCGGCAGAAGTACAAACGGC
 GGCCAGAGGTGGACCCTTTCCTTCCCGGGCCCTTCCCTGCTGGACCTCTGGCAGTACCTGGAGGACC
 CAGGAAGACAGCCCCAGTGAACGCTCTGGTGTGCGCATCTGCTGGTGGTTGAACCTGAGAAGCTGTACGCC
 ATGCCTGACCCAGCAAGCCCGATGGACACCTCCCGCTGTGGCCACTCTCTGTGACCTTTTGGATCGAG
 AGATAGTGGTACCATCAGCTGGGCAAGAGCATCCCAGGCTTCTCCTCACTGTCACTGTCTGACCAGAT
 GTCAGTACTGCAGAGTGTGTGGATGGAAGTGTGGTGTGGTGTGGCCAGCGCTCACTGCCACTGCAG
 GATGAGCTGGCCTTTGCTGAGGACCTGGTCTAGATGAAGAGGGGGCACGGGCAGCTGGCCTGGGGGATC
 TGGGGGCAGCCCTGTGTCAGCTGGTTCGGCGACTGCAAGCTCTTCGGCTGGAGCGGGAGGAGTACGTCT
 GCTGAAAGCTCTGGCCCTTGCCAATTCTGACTCTGTGCACATTGAAGATGCTGAGGCTGTGGAGCAGCTG
 CGCGAAGCCCTGCATGAGGCCCTGCTGGAGTATGAAGCTGGCCGGGCTGGCCCTGGAGGGGGTGTGAGC
 GGAGGCGTGCAGGCAGGCTGCTGCTTACGCTGCCACTCCTCCGCCAGACAGCAGGCAAAGTCTGGCCCA
 TTTCTATGGGGTGAAGCTGGAGGGCAAGGTGCCATGCACAAGCTGTTTTTGGAAATGCTTGAGGCCATG
 ATGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225753 protein sequence
 Red=Cloning site Green=Tags(s)

MSSQVVGIEPLYIKAEPASPDSPKGSSETETEPVTLASGPAPARCLPGHKEEEDGEGAGSGEQSGKLV
 LSSLPKRLCLVCGDVASGYHYGVASCEACKAFFKRTIQGSI EYSCPASNECEITKRRRKACQACRF TKCL
 RVGMLKEGVRLDRVRGGRQKYKRRPEVDPLPFPGPFPAGPLAVAGGPRKTA PVNALVSHLLVVEPEKLYA
 MPDPASPDGHLPAVATLCDLFDREIVVTISWAKSIPGFSSLSLSDQMSVLQSVWMEVVLVGVQ RSLPLQ
 DELAFAEDLVLDEEGARAAGLDLGAALLQLVRRQLALRLEREEYVLLKALALANSDSVHI EDAEAVEQL
 REALHEALLEYEAGRAGPGGGAERRRAGRLLLLTLPLLRQTAGKVL AHFYGVKLEGVPMHKL FLEMLEAM
 MD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_007953

ORF Size: 1269 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).

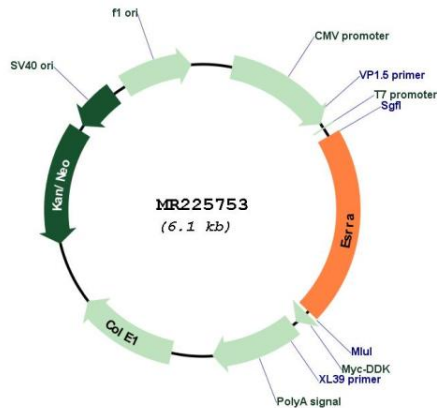
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_007953.2](#), [NP_031979.2](#)

RefSeq Size: 2264 bp
 RefSeq ORF: 1269 bp
 Locus ID: 26379
 UniProt ID: [O08580](#)
 Cytogenetics: 19 5.08 cM
 MW: 45.5 kDa

Gene Summary: Binds to an ERR-alpha response element (ERRE) containing a single consensus half-site, 5'-TNAAGGTCA-3'. Can bind to the medium-chain acyl coenzyme A dehydrogenase (MCAD) response element NRRE-1 and may act as an important regulator of MCAD promoter. Binds to the C1 region of the lactoferrin gene promoter. Requires dimerization and the coactivator, PGC-1A, for full activity. The ERRalpha/PGC1alpha complex is a regulator of energy metabolism. Induces the expression of PERM1 in the skeletal muscle (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225753