

Product datasheet for **MG225753**

Esrra (NM_007953) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esrra (NM_007953) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Esrra
Synonyms:	Err1; ERRalpha; Estrra; Nr3b1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225753 representing NM_007953 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCAGCCAGGTGGTGGGCATCGAGCCTCTCTACATCAAGGCAGAGCCAGCCAGCCCTGACAGTCCAA
AGGGTTCTCAGAGACTGAGACTGAACCCCGGTGACCCTGGCCTCTGGTCCAGCTCCAGCCCGTGCCT
TCCAGGGCACAAGGAGGAGGAGGATGGGGAGGGGCGAGGTCTGGTGGCAGGGCAGTGGGAAGCTAGTG
CTCAGCTCTCTACCTAACGCCTCTGCCTGGTCTGTGGGATGTGGCCTCTGGCTACCACTACGGTGTGG
CATCCTGTGAGGCCTGCAAAGCCTTCTCAAGAGGACCATCCAGGGGAGCATCGAGTACAGCTGTCCGGC
CTCCAATGAGTGTGAGATCACCAGCGGAGACGCAAGGCCTGTCAGGCCTGCCGCTTACCAAGTGCCTG
CGGGTGGGCATGCTCAAGGAGGGTGTGCGTTTGGACCGTGTCCGTGGCGGGCGGCAGAAGTACAAACGGC
GGCCAGAGGTGGACCCCTTGCCTTCCCGGGCCCTTCCCTGCTGGACCTCTGGCAGTAGCTGGAGGACC
CAGGAAGACAGCCCCAGTGAACGCTCTGGTGTGCGATCTGCTGGTGGTTGAACCTGAGAAGCTGTACGCC
ATGCCTGACCCAGCAAGCCCGATGGACACCTCCCGCTGTGGCCACTCTCTGTGACCTTTTGTATCGAG
AGATAGTGGTCAACATCAGCTGGGCAAGAGCATCCCAGGCTTCTCCTACTGTCTACTGTCTGACCAGAT
GTCAGTACTGCAGAGTGTGTGGATGGAAGTGTGGTGTGGTGTGGCCAGCGCTCACTGCCACTGCAG
GATGAGCTGGCCTTGTGAGGACCTGGTCTAGATGAAGAGGGGGCAGGGCAGCTGGCCTGGGGGATC
TGGGGCAGCCCTGCTGCAGCTGGTTCGGCGACTGCAAGCTCTTCGGCTGGAGCGGGAGGAGTACGTCT
GCTGAAAGCTCTGGCCCTTGCCAATTCTGACTCTGTGCACATTGAAGATGCTGAGGCTGTGGAGCAGCTG
CGCAAGCCCTGCATGAGGCCCTGCTGGAGTATGAAGCTGGCCGGCTGGCCCTGGAGGGGGTGTGAGC
GGAGGCGTGCAGGCAGGCTGCTGCTTACGCTGCCACTCCTCCGCCAGACAGCAGGCAAAGTCTGGCCCA
TTTCTATGGGGTGAAGCTGGAGGGCAAGGTGCCCATGCACAAGCTGTTTTTGAATGCTTGAGGCCATG
ATGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225753 representing NM_007953
 Red=Cloning site Green=Tags(s)

MSSQVVGIEPLYIKAEPASPDSPKGSSETETEPVTLASGPAPARCLPGHKEEEDGEGAGSGEQSGKLV
 LSSLPKRLCLVCGDVASGYHYGVASCEACKAFFKRTIQGSIYSCPASNECEITKRRRKACQACRFKCL
 RVGMLKEGVRLDRVRGGRQKYKRRPEVDPLPFPFPAGPLAVAGGPRKTAAPNALVSHLLVVEPEKLYA
 MPDPASPDGHLPAVATLCDLFDREIVVTISWAKSIPGFSSLSLSDQMSVLQSVWMEVLVLGVAQRSLPLQ
 DELAFAEDLVLDEEGARAAGLDLGAALLQLVRRQLALRLEREEYVLLKALALANSDSVHIEDAEAVEQL
 REALHEALLEYEAGRAGPGGAERRRAGRLLLLTLP LLRQTAGKVL AHFYGVKLEKGVPMHKL FLEMLEAM
 MD

TRTRPLE - GFP Tag - V

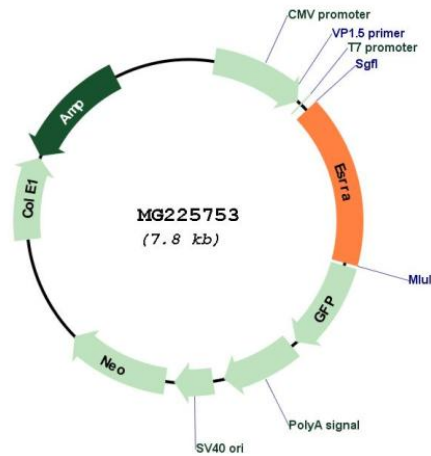
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_007953

ORF Size:	1266 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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:	<ol style="list-style-type: none"> 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
Gene Summary:	<p>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]</p>