

Product datasheet for **SC117348**

ESE1 (ELF3) (NM_004433) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ESE1 (ELF3) (NM_004433) Human Untagged Clone
Tag:	Tag Free
Symbol:	ESE1
Synonyms:	EPR-1; ERT; ESE-1; ESX
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_004433 edited
GAATTCGGCACGAGGCGGAACTGGATTTCTCTCCCGCCTGCCGGCCTGCCTGCCACAGCC
GGACTCCGCCACTCCGGTAGCCTCATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGC
AACTACTTCAGTGCATGTACAGCTCGGAGGACTCCACCTGGCCTCTGTTCCCCTGCT
GCCACCTTTGGGGCCGATGACTTGGTACTGACCCTGAGCAACCCCAAGATGTCATTGGAG
GGTACAGAGAAGGCCAGCTGGTTGGGGAAACAGCCCCAGTTCTGGTGAAGACGCAGGTT
CTGGACTGGATCAGTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACTTC
TCACGATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTG
GTCTTTGGGCTCTGGGGACCAACTCCATGCCAGCTGCGAGACCTCACTTCCAGCTCT
TCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAG
GCCCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCTTTGCCAGGAGCTGCTGGACGAC
GGTCAGCAAGCCAGCCCTACCACCCCGCAGCTGTGGCGCAGGAGCCCTCCCTGGC
AGCTCTGACGCTCCACCGCAGGACTGGTCTTCTCGGAGCTCCACTCCTCAGACTCC
GGTGGAAGTGACGTGGACCTGGATCCCCTGATGGCAAGCTCTTCCCAGCGATGGTTTT
CGTGACTGCAAGAAGGGGATCCCAAGCACGGGAAGCGAAACGAGGCCGCCCCGAAAG
CTGAGCAAAGAGTACTGGGACTGTCTCGAGGGCAAGAAGCAAGCACGCCCCAGAGGC
ACCCACCTGTGGGAGTTCATCCGGGACATCCTCATCCACCCGGAGCTCAACGAGGGCCTC
ATGAAGTGGGAGAATCGGCATGAAGGCGTCTTCAAGTTCTGCGCTCCGAGGCTGTGGCC
CAACTATGGGGCCAAAAGAAAAAGAACAGCAACATGACCTACGAGAAGCTGAGCCGGGCC
ATGAGGTACTACTACAAACGGGAGATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTAC
AAGTTTGGCAAACTCAAGCGGCTGGAAGGAGGAAGAGTTCTCCAGAGTCGGAAGTGA
GGGTGGAACTATACCCGGGACAACTCACGGACACTCGAGGCCTGCAAACTTCTCTG
GGAGCACAGGCAGCCAGATGGCCCTCCACTGGGGAATGCTCCAGCTGTGCTGTGGAG
AGAAGCTGATGTTTTGGTGATTGTTCAGCCATCGTCTGGGACTCGGAGACTATGGCCTC
GCCTCCACCCCTCTCTTGAATTACAAGCCCTGGGTTTTGAAGCTGACTTTATAGCTG
CAAGTGTATCTCTTTTATCTGGTGCCTCCTCAAACCCAGTCTCAGACACTAAATGCAGA
CAACACCTTCTCTGACAGACCTGGACTGAGCCAAGGAGGCCTGGGGAGGCCCTAGGG
GAGCACCGTGATGGAGAGGACAGAGCAGGGGCTCCAGCACCTTCTTTCTGGACTGGCGTT
CACCTCCCTGCTCAGTGTGGGCTCCACGGGCAGGGGTACAGACTCCCTAATTTATG
TGCTATATAAATATGTCAGATGTACATAGAGATCTATTTTTTCTAAAACATCCCCTCCC
CACTCCTCTCCCACAGAGTGTGGACTGTTCCAGGCCCTCCAGTGGGCTGATGCTGGGAC
CCTTAGGATGGGCTCCCAGCTCCTTTCTCCTGTGAATGGAGGCAGAGACCTCCAATAAA
GTGCCCTCTGGGCTTTTTCTAACCTTTGTCTTAGCTACCTGTGTACTGAAATTTGGGCT
TTGGATCGAATATGGTCAAGAGGTTGGAGGGGAGGAAAATGAAGGTCTACCAGGCTGAGG
GTGAGGGCAAAGGCTGACGAAGAGGGGAGTTACAGATTTCTGTAGCAGGTGTGGGCTTA
CAGACACATGGACTGGGCTGGGAGGCGAGCAAAGGAAGCAGCTGAGACTGTTGGAGAAGC
CTTACAAGACTTCATGCAAGCAAGGACATGAACTCAGAACACTGAGGTGAGAAGCATCCT
GCTGTCATGACACCGCTCGAGTGACCTTGACCTTGACCAAGTCTGTCTGTTTAGGACTG
ATTTTTCTATTAGGCTAGGGTTTGGACCTGATGTTCTCAAGATGTCTAGAATTGCATGG
CTGGCCTTGTGGAATAGATGGTTTTGCATTCCAGCCAAGTGTGCTGTAACCTGTATATCT
GTAATATGAATCCAGCTTTTGTAGTCTGACAAAATCAGAGTTAGGATCTGTAAAAAAA
AAAAAAAACCTCGAC

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004433 unedited ATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGGAACTGGATT TCTCTCCCGCCTGCCGGCCTGCCGACAGCCGACTCCGCCACTCCGGTAGCCTCATG GCTGCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTCAGTGCGATGTACAGCTCG GAGGACTCCACCTGGCCTCTGTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTGGTA CTGACCCTGAGCAACCCCAAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTGGGG GAACAGCCCCAGTTCTGGTCAAGACGACAGTTCTGGACTGGATCAGCTACCAAGTGGAG AAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCCACC CTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAACTC CATGCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAG CTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGACCAG NGCAGCCCTTTGCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCTACCACCCC GGCAGCTGTGGCGCAGGAGCCCCCTCCCTGGCAGCTCTGACGTCTCCACCGCAGGGACT GGTGCTTCTCGGAGCTCCCCACTCTCAGACTCCGGTGAAGTGACGTGGNACCTGGATCC CACTGATGGNCAGCTCTNCCCAGCNGATGTTTTTCGTGACTGGCAGAAGGGGGATCCCAA GCACGGNAAGCGAAACGAGGCCNGNCCGAAGCTGAGCANAGAGTCTTGGGACTGTCT CGAGGGCAAGAAGAGCAGCCCGCCCAAGCACCCTTTGGGGGAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004433 unedited CTATGGACCGGCCGCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTACAGATCCTA ACTCTGATTTTGTGACAGCTCAAAAGCTGGGATTCATATTACAGATATACAGTTTACAGCA CACTTGGCTGGAATGCAAAACCTCTATTCCACAAGGCCAGCCATGCAATTCTAGACATC TTGAGAACATCAGGTCCAAACCTTAGCCTAATAGGAAAAATCAGTCTAACAGGACAGA CTTGGTCAAGGTCAAGGTCACTCGAGCGGTGTCATGACAGCAGGATGCTTCTGACCTCAG TGTTCTGAGTTTATGTCCTTGCTTGATGAAGTCTTGAAGCGTTCTCCAACAGTCTCAG CTGCTTCCCTTTCGCTCGCCTCCAGCCAGTCCATGTGTCTGTAAGCCACACCTGCTACA GGAAATCTGTAATCCCCTCTTCGTGAGCCTTTGCCCTCACCCCTCAGCCTGGTAGACCTT CATTTTCTCCCCTCCAACCTCTTGACCATATTCGATCCAAAGGCCCAAAATTTAGTACA CAGGTAGCTAAGACAAAGTTAGAAAAAGCCAGAAGGCACTTTATTGGAGGTCTCTGCC TCCATTCACAGGAGAAAGGAGCTGGGAGCCCCATCCTAAGGGTCCAGCATCAGCCCACT GGAGGGCCTGGAACAGTCCAGCACTCTGTGGGAGAGGAGTGGGGAGGGGAATGTTTTAAA AAAAATAGATCTCTATGTACATCTGACATATTTATATAGCACATAAATTAGGGAGTGCTC TGACCCCTGCCNGTGAGCCCCAGCACTGAGCAGGNAGGTGAACGCCAGTCCAGAANGAG GTGCTGGAGCCCCTGCTCTGTCTCTCCATCACGGNGCTCCCTAGGNCCTCCAGCCTCC TTGGCTANTCCAGTGTCTGCAGAAGAAAGGGTGTGCTGCATTTATGTCTGAAACTGGGT TGAGGAGCCCANATAAAGGAGATCAT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_004433
Insert Size:	2550 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_004433.3 , NP_004424.2
RefSeq Size:	5036 bp
RefSeq ORF:	1116 bp
Locus ID:	1999
UniProt ID:	P78545
Cytogenetics:	1q32.1
Domains:	ETS, AT_hook, SAM_PNT
Protein Families:	Transcription Factors
Gene Summary:	<p>Transcriptional activator that binds and transactivates ETS sequences containing the consensus nucleotide core sequence GGA[AT]. Acts synergistically with POU2F3 to transactivate the SPRR2A promoter and with RUNX1 to transactivate the ANGPT1 promoter. Also transactivates collagenase, CCL20, CLND7, FLG, KRT8, NOS2, PTGS2, SPRR2B, TGFBR2 and TGM3 promoters. Represses KRT4 promoter activity. Involved in mediating vascular inflammation. May play an important role in epithelial cell differentiation and tumorigenesis. May be a critical downstream effector of the ERBB2 signaling pathway. May be associated with mammary gland development and involution. Plays an important role in the regulation of transcription with TATA-less promoters in preimplantation embryos, which is essential in preimplantation development (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant represents the shorter transcript (1). Variants 1 and 2 encode the same protein.</p>