

Product datasheet for **RG200631**

ESE1 (ELF3) (NM_004433) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ESE1 (ELF3) (NM_004433) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ESE1
Synonyms:	EPR-1; ERT; ESE-1; ESX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200631 representing NM_004433 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCATGTACAGCTCGGAGGACT
CCACCCTGGCCTCTGTTCCCTGCTGCCACCTTTGGGGCCGATGACTTGGTACTGACCCTGAGCAACCC
CCAGATGTCATTGGAGGGTACAGAGAAGCCAGCTGGTTGGGGAAACAGCCCCAGTTCTGGTCGAAGACG
CAGGTTCTGGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCAC
GATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGCCTCT
GGGGACCAACTCCATGCCAGCTGCGAGACCTCACTTCCAGCTTTCTGATGAGCTCAGTTGGATCATT
GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGACCAGGGCAGCC
CCTTTGCCAGGAGCTGTGGACGACGGTCCAGCAAGCCAGCCCCCTACCACCCCGGAGCTGTGGCGCAGG
AGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCAGGAGGACTGGTGTCTCTCGGAGCTCCCACTCCTCA
GACTCCGGTGGAAAGTACGTTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCAGCGATGGTTTTCTGTG
ACTGCAAGAAGGGGGATCCCAAGCACGGGAAGCGGAAACGAGGCCGCCCCGAAAGCTGAGCAAAGAGTA
CTGGGACTGTCTCGAGGGCAAGAAGAGCAAGCACGCGCCAGAGGCACCCACCTGTGGGAGTTTCATCCGG
GACATCCTCATCCACCCGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAAGGCGTCTTCA
AGTTCTGCGCTCCGAGGCTGTGGCCAACTATGGGGCCAAAAGAAAAGAACAGCAACATGACCTACGA
GAAGCTGAGCCGGCCATGAGGTACTACTACAACGGGAGATCCTGGAACGGGTGGATGGCCGGCGACTC
GTCTACAAGTTTGGCAAAAACCAAGCGCTGGAAGGAGGAAGAGTTCTCCAGAGTCGGAAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200631 representing NM_004433
 Red=Cloning site Green=Tags(s)

MAATCEISNIFSNYFSAMYSSDSTLASVPPAATFGADDLVLTLSNPQMSLEGTEKASWLGEQPQFWSKT
 QVLDWISYQVEKNKYDASAIIDFSRCDMDGATLNCAL EELRLVFGPLGDQLHAQLRDLTSSSSDEL SWII
 ELLEKDGMAFQEALDPGPFDDQGSFPAQELLDDGQQASPYHPGSCGAGAPSPGSSDVSTAGTGASRSSHSS
 DSGGSDVDLDPTDGKLFPSDGF RDCKKGD PKHGKRKRGRPRKL SKEYWDCLEGKKSKHAPRGTHL WEFIR
 DILIHPELNEGLMKWENRHEGVFKFLRSEAVAQLWGQKKKNSNMTYEKLSRAMRYYYKREILERVDGRRLL
 VYKFGKNSSGWKEEEVLQSRN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004433

ORF Size: 1113 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:	<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_004433.5
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:	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]

Product images:



Circular map for RG200631