

Product datasheet for **RG225564**

ESE1 (ELF3) (NM_001114309) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ESE1 (ELF3) (NM_001114309) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ELF3
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: >RG225564 representing NM_001114309
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCATGTACAGCTCGGAGGACT
 CCACCCCTGGCCTCTGTTCCCTGCTGCCACCTTTGGGGCCGATGACTTGGTACTGACCCGAGCAACCC
 CCAGATGTCATTGGAGGGTACAGAGAAGCCAGCTGGTTGGGGAAACAGCCCCAGTTCTGGTCGAAGACG
 CAGGTTCTGGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCAC
 GATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGCCTCT
 GGGGGACCAACTCCATGCCAGCTGCGAGACCTCACTTCCAGCTTTCTGATGAGCTCAGTTGGATCATT
 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGACCAGGGCAGCC
 CCTTTGCCAGGAGCTGTGGACGACGGTCCAGCAAGCCAGCCCCCTACCACCCCGGAGCTGTGGCGCAGG
 AGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGGACTGGTGTCTCTCGGAGCTCCCCTCCTCA
 GACTCCGGTGGAAAGTACGTTGGACTGGATCCCACTGATGGCAAGCTCTTCCCAGCGATGGTTTTCTGTG
 ACTGCAAGAAGGGGGATCCCAAGCACGGGAAGCGGAAACGAGGCCCGCCCGAAAGCTGAGCAAAGAGTA
 CTGGGACTGTCTCGAGGGCAAGAAGAGCAAGCACGCGCCAGAGGCACCCACCTGTGGGAGTTTCATCCGG
 GACATCTCATCCACCCGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAAGGCGTCTTCA
 AGTTCCTGCGCTCCGAGGCTGTGGCCAACTATGGGGCCAAAAGAAAAGAACAGCAACATGACCTACGA
 GAAGCTGAGCCGGCCATGAGGTACTACTACAAACGGGAGATCCTGGAACGGGTGGATGGCCGGCGACTC
 GTCTACAAGTTTGGCAAAAACCAAGCGCTGGAAGGAGGAAGAGTTCTCCAGAGTCGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225564 representing NM_001114309
 Red=Cloning site Green=Tags(s)

MAATCEISNIFSNYFSAMYSSDSTLASVPPAATFGADDLVLTLNPNQMSLEGTEKASWLGEQPQFWSKT
 QVLDWISYQVEKNKYDASAIIDFSRCDMDGATLNCAL EELRLVFGPLGDQLHAQLRDLTSSSSDEL SWII
 ELLEKDGMAFQEALDPGPFQDQSPFAQELLDDGQQASPYHPGSCGAGAPSPGSSDVSTAGTGASRSSHSS
 DSGGSDVDLDPTDGKLFPSDGF RDCKKGDPKHGKRKRGRPRKL SKEYWDCLEGKKSKHAPRGTHL WEFIR
 DILIHPELNEGLMKWENRHEGVFKFLRSEAVAQLWGQKKNSNMTYEKLSRAMRYYYKREILERVDGRRLL
 VYKFGKNSSGWKEEEVLQSRN

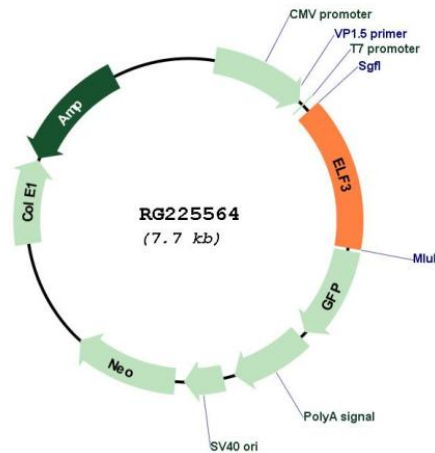
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001114309

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_001114309.2
RefSeq Size:	3263 bp
RefSeq ORF:	1116 bp
Locus ID:	1999
UniProt ID:	P78545
Cytogenetics:	1q32.1
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]