

Product datasheet for **MG223180**

Elf3 (NM_001163131) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elf3 (NM_001163131) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Elf3
Synonyms:	ESE-1; ESX; jen
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223180 representing NM_001163131 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCCACCTGTGAGATCAGCAACGTTTTTAGTAACTACTTCAACGCCATGTACAGCTCAGAAGACC
CCACCCTGGCTCCTGCTCCTCCGACTACCTTTGGCACTGAAGACTTGGTGTGACCTGAACAACCAACA
GATGACTGGAAGGTCCAGGACCTCAGACAAGATCCCAAAGGGACAGGACTGATCCTCTGGCTGTACTC
CACCTTGCAGAGAAGCAAGCTGGACTAGCGAGCGGCCAGTTCTGGTGAAGACCCAGGTTCTGGAGT
GGATCAGCTACCAAGTGGAGAAGAACAAGTATGACGCCAGCTCCATCGACTTCTCCGCTGCGACATGGA
CGGAGCCACCCTCTGCAGCTGTGCGCTGGAGGAGCTGCGGCTAGTCTTTGGACCTCTGGGAGACCAGCTC
CATGCCAGCTTTCGGGACCTCACCTCCAACCTTCTGATGAACTCAGCTGGATCATCGAGCTGCTGGAGA
AGGATGGCATGTCCTTCCAAGAGAGCCTAGGCGACTCGGGCCCTTTGATCAGGGAAGTCTTTGCCCA
GGAACCTCTGGATGATGGCCGCCAGGCCAGTCCCTACTACTGCAGTACCTATGGCCCTGGAGCGCCCTCC
CCCGCAGCTCTGATGTCTCCACTGCAAGGACCGCTACTCCCCAGAGTTCATGCTTCTGACTCCGGTG
GAAGTGTGTGGACCTGGACCTACCGAGAGCAAGGTCTCCCTAGAGATGGCTTTCCTGACTATAAGAA
GGGGGAACCAAGCACGGGAAGAGAAACGGGGCGTCCCAGAAAGCTGAGCAAGGAATACTGGGACTGT
CTGGAGGGCAAGAAGAGCAAGCACGCCCCAGAGGTACTCACCTGTGGGAGTTTATCCGAGACATCCTAA
TCCACCCGAGCTCAACGAAGGCCTCATGAAGTGGGAGAACCAGGAGGAGGTTCAAGTTTCTTCG
CTCAGAGGCCGTGGCCAACTCTGGGGCCAGAAGAAGAAGCAACATGACCTATGAGAAGCTGAGC
CGAGCCATGAGGTATTACTACAAACGGGAGATCCTGGAACGGGTGGATGGCCGACGGCTCGTCTACAAGT
TTGGCAAGAACTCTAGTGGCTGGAAGGAAGAAGAGTTGGAGAGAGTCCGAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223180 representing NM_001163131
 Red=Cloning site Green=Tags(s)

MAATCEISNVFSNYFNAMYSSEDTLAPAPPTTFGTEDLVLTLNNQMTLEGPGPQTRSQRDRDPLAVL
 HLAEKASWTSERPQFWSKTQVLEWISYQVEKNKYDASSIDFSRCDMDGATLCSCALEELRLVFGPLGDQL
 HAQLRDLTNSSDDEL SWI IELLEKDGMSFQESLGDSPFDQGSPPAQELLDDGRQASPYCSTYGP GAPS
 PGSSDVSTARTATPQSSHASDSGGSDVDL DLTESKVFPRDGFDPYKKGEPKHKRKRGRPRKL SKEYWDC
 LEGKSKHAPRGTHL WEFIRDIL IHPELNEGLMKWENRHGKVFKFLRSEAVAQLWGQKKNSNMTYEKLS
 RAMRYYYKREILERV DGRRLVYKFGKNSSGWKEEEVGESRN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001163131

ORF Size: 1173 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:

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_001163131.1](#), [NP_001156603.1](#)

RefSeq Size: 2000 bp

RefSeq ORF: 1176 bp

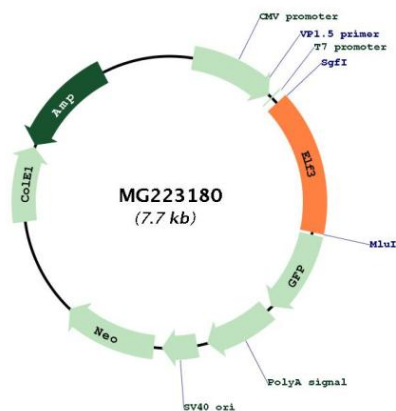
Locus ID: 13710

UniProt ID: [Q3UPW2](#)

Cytogenetics: 1 E4

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 (By similarity). Also transactivates collagenase, CCL20, CLND7, FLG, KRT8, NOS2, PTGS2, SPRR2B, TGFBR2 and TGM3 promoters. Represses KRT4 promoter activity (By similarity). 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 (By similarity). 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. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG223180