

Product datasheet for **RR212170**

Elf3 (NM_001024768) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Elf3 (NM_001024768) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Elf3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212170 representing NM_001024768
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCCACCTGTGAGATCAGCAACGTTTTTAGCAACTACTTCAACGCCATGTACAGTTCAGAAGACC
CCACCCTGGCTCCTGCTCCTCTGACTACTTTGGCACTGAAGACTTTGTGTTGACCCTGAACAACCAACA
CATGTCCCAGAAAGTCCAGTAGGTTGTGTAGGACCTCAGACAAGATCCCAAAGGGACAGAAGACTGAGCCT
CCGGCTGTACTCCACCTTGACAGAAAGCAAGCTGGACCGAGAGCGGCCAGTTCTGGTGAAGACCC
AGGTAAGTGGATTGGATCAGCTACCAAGTGGAGAAGAACAAGTATGATGCCAGTTCATTGACTTCTCGCG
CTGCGACATGGACGGCGCCACCCTCTGCAACTGTGCGCTGGAGGAGCTGCGACTAGTCTTTGGCCCTCTG
GGAGACCAACTCCATGCCAGCTTCGGGACCTCACCTCCAGCTCTTCTGATGAACTTAGTTGGATCATCG
AGCTGCTGGAGAAGGACGGCATGACCTTCCAAGAGGGCCTAGGAGACTCGGGTCCCTTTGACCAGGGAAAG
CCCTTTTGCCAGGAGCTACTGGATGATGGCCGTAGGCCAGCCCTACTACGGCAGTTCCTATGGCCCT
GGAGCGCCCTCTCAGGTAGCTCTGATTTCTCCACTTCAGGGACCGATACTCCCCAGAGTTCCTACTCCT
CTGACTCCGGTGAAGTATGTGGACCTGGACCTCACCGATAGCAAGGTCTTCCCTAGAGATGGCTTTCC
TACTATAAAGAAGGGAGAACCCTAAGCATGGAAAGAGGAAACGGGGCGTCCCCGAAAGCTGAGCAAGAA
TACTGGGACTGTCTGGAGGGCAAGAAGGCAAGCATGCCCCAGAGGTAATCACCTGTGGGAGTTTATCC
GGGACATTTCTTATCCACCCTGAGCTCAACGAAGGCCTCATGAAATGGGAGAACGGCACGAGGGCGTTTT
CAAGTTTCTTCGTTAGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAGAAGATAGCAACATGACCTAT
GAGAAGCTGAGCCGGGCCATGAGGTAATCTACTACAAACGGGAGATCCTGGAACGGGTGGATGGCCGTCCGG
TCGCTACAAGTTTGGCAAGAACTCCAGTGGCTGGAAGGAAGAAGAGGTTGGAGAGAGTCAGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR212170 representing NM_001024768
 Red=Cloning site Green=Tags(s)

MAATCEISNVFSNYFNAMYSSSEDPTLAPAPLTTFGTEDFVLTLLNQHMSPGEPVGCVGPQTRSQRDRTEP
 PAVLHLAEKASWTGERPQFWSKTQVLDWISYQVEKNKYDASSIDFSRCDMDGATLNCAL EELRLVFGPL
 GDQLHAQLRDLTSSSSDEL SWIIELLEKDMTFQ EGLGDSGPFQDGSPPFAQELLDDGRQASPYGSSYGP
 GAPSPGSSDFSTSGTDT PQSSHSSD SGGSDVDL DLTDSKVFPDRGFPDYKKGEPKHGKRKRGRPRKLSKE
 YWDCLEGGKSKHAPRGTHLWEFIRDILIHPELNEGLMKWENRHEGVFKFLRSEAVAQLWGQK KKNNSNMTY
 EKL SRAMRYYYKREILERV DGRRLVYKFGKNSSGWKEEEVGESQN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

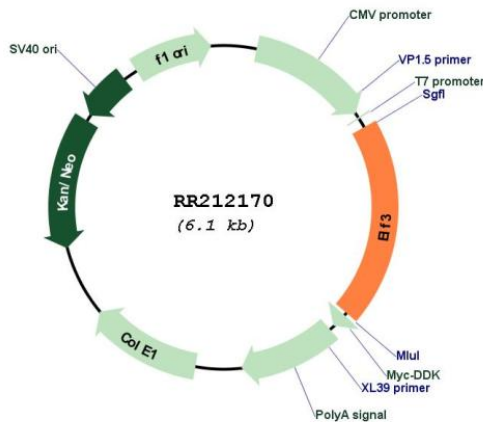
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001024768

ORF Size:	1185 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_001024768.1 , NP_001019939.1
RefSeq Size:	1976 bp
RefSeq ORF:	1188 bp
Locus ID:	304815
UniProt ID:	Q4V7E1
Cytogenetics:	13q13
MW:	44.5 kDa
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]