

Product datasheet for **MR225575**

Elk4 (NM_007923) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elk4 (NM_007923) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elk4
Synonyms:	2310011G17Rik; A130026I01Rik; BB162516; SAP-1; Sap1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225575 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAGTGCCATCACTCTGTGGCAGTTCCTTCTCCAGCTCCTGCAGGAGCCTCAGAATGAGCACATGA
 TCTGCTGGACATCTAACAAATGGGGAGTTCAAGCTTCTGCAGGCGGAGGAGGTGGCTCGTCTTTGGGGAT
 TCGCAAGAACAAGCCTAATATGAATTATGATAAACTCAGCCGAGCCCTGCGATACTACTCGTAAAAGAAC
 ATCATTAAAAAGTGAATGGTCAGAAGTTTGTGTACAAGTTTGTCTCCTATCCAGAGATTTTAAAAATGG
 ACCCACTGACGGTAGGCAGGATTGAGGGAGACTGTGAAGCTTTAAATCCATTGAAACCAGCAGTTCCAA
 AGATGTTGAGTATGGAGGAAAGGAGAGGCCACCTCAGCCTGGAGCCAAGACCTCTAGTCGCAATGACTAC
 ATACACTCTGGTTTGTATTCTTCACTTAACTCTCTGAACACCTCCAATAAGAAGCTTTTCAAGT
 CAATAAGATAGAGAATCCAGCGAAAACTAGCAGAGAAGAAAGCCAGGAGCCAACACCGTCCGTCAT
 CAAATTTGTGACAACGCCTGCCAAAAAGCCGCCATCGAGCCTGTGCTGCTGCCCTTTGCAACGAGCCCT
 AGTCTTTCTCCATCTTCTGAAGAACTATCCAAGCTTTGGAGACATTAGTCTCTCCACACTACCTTCCC
 TGGAAACCCAGCCTCCATATCCATTCTGGCTACCACCTTAACCCCACTCCTCCGGTTCATCCACACC
 CCTTCTCTAAAGGAGCCTCCCAGGACACCTTCTCCACCACTGAGTTCTAACCCAGACATTGACACAGAC
 ATTGAGTCAGTGGCTTCTCAGCCAATGGAACCTCCAGAGAAGTTATCACTGGAGCCTAAAAATGAGGATT
 CAGCTTTGCCAGAAAAGGACAAAACAAATAACTCATCAAGATCTAAGAAGCCAAAGGGTTAGAAGTAC
 ACCCGCCCTTGTGGTCACAGGCAGTGACCCAGCCCTTGGGGATCCTAAGCCCATCTCTCCGACAGCG
 TCTCTTACACCAGCACTTTTTCACAGACTCCCATCTTGTGACTCCGAGCCCTTGTCTCCAGCATCC
 ACTTTTGGAGCACTCTCAGCCCGTTTGTCCCTTGAGCCAGCCAGACTGCAAGGTGCTAATACGCTTTT
 CCAGTTTCCCTCTGTACTCAACAGTCATGGCCGTTCACTCTGTGAGCCCTGGACGGACCTTCCACTCCG
 GGCCATTTTCTCCAGACCTGCAGAAGACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225575 protein sequence
 Red=Cloning site Green=Tags(s)

MDSAITLWQFLLQLLQEPQNEHMICWTSNNGEFKLLQAEVVARLWGIRKNKPNMNYDKLSRALRYYYVKN
 IIKKVNGQKFVYK FVSYPEILKMDPLTVGRIEGDCEALNSIETSSSKDVEYGGKERPPQPGAKTSSRNDY
 IHSGLYSSFTLNSLNTSNKFLKFSIKIENPAEKLAEKKAQEPTPSVIK FVTTPAKKPIIEPVAAAFATSP
 SLSPSSEETIQALETLVSPTLPSLET PASISILATTFNPTPPVPSTPLPLKEPPRTPSPPLSSNPIDTD
 IESVASQPMELPENL SLEPKNEDSALPEKDKTNNSSRSKPKGLELTPALVVTGSDPSPLGILSPSLPTA
 SLTPALFSQTPILLTPSPLLSSIHFWSTLSPFAPLSPARLQGANLTFQFPSVLNSHGPF TLSGLDGPSTP
 GPFSPDLQKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_007923

ORF Size: 1293 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_007923.3](#)
RefSeq Size: 3671 bp

RefSeq ORF: 1293 bp

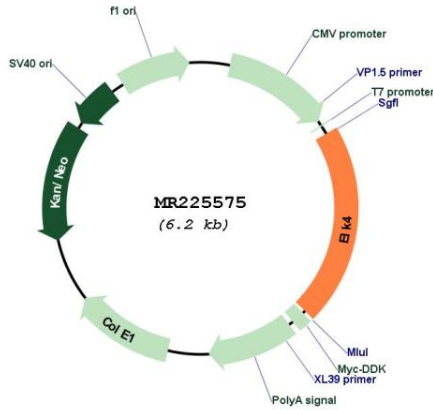
Locus ID: 13714

UniProt ID: [P41158](#)
Cytogenetics: 1 E4

MW: 46.8 kDa

Gene Summary: Involved in both transcriptional activation and repression. Interaction with SIRT7 leads to recruitment and stabilization of SIRT7 at promoters, followed by deacetylation of histone H3 at 'Lys-18' (H3K18Ac) and subsequent transcription repression. Forms a ternary complex with the serum response factor (SRF). Requires DNA-bound SRF for ternary complex formation and makes extensive DNA contacts to the 5' side of SRF, but does not bind DNA autonomously (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225575