

Product datasheet for **MR217932**

Elf4 (NM_019680) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elf4 (NM_019680) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elf4
Synonyms:	AV314029; BC042423; ENSMUSG00000053512; Gm9907; Mef
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217932 representing NM_019680.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGCTATTGCTCTGCAGCCAGTGTGCTGGTCTTCGAGTTTGAAGCAACGGGATGGATGATATCCAC
CAGCTGGAAGACCCTTTCAGTGTCCAGCCGTGATCGTGAACAGGTCCCCTATCTGAATTAGTGCAT
CTGTGCTCAGGACTGGATCTGGATGAGGTCCACAATGGCATCATAGGGACAGGACCTTGTGCATGACA
CAGGATCAGATTTTAGAAGGCAGTATTTTGTGACAGATGATGATGATCCACCTCAAATAACGTGTCA
TCCACTGAAGTCTATTCAATGTGGCAACTCCCAGTGTGCTGGATGAGAAGCAGATCTTCAGCTCA
CCGGAAGTGCTTTCAGACTCCAACCTCTGTTCCAGCCATCAATCTACCCAACCTTCTGCTCTTACCCT
GAACCTGATGACCTGAAGAAGACAAGTGTGCTGGTGACCAGAAGGAGCATTCTGAGGAGGAGAAGGTC
TCCAGAGAGGAAAATCTAGGAAGATGGGAAGGCACGGAAGAGAAAACCGAAAGACCAAGAACAACCGA
AGTACCTCACCTGCTCACTGACCCTAGCATGCCTATACGGAAGAAATCAAAGATGGCAAAGGCAGCACC
ATTTATCTGTGGGAGTTCCTCCTGGCTCTTCTGCAAGACAGAAACACCTGCCCAAGTACATTAAGTGG
ACGCAGAGAGAGAAGGGCATCTCAAGTTGGTGGACTCCAAGGCTGTGTCCAAGCTGTGGGGCAAGCAG
AAAAACAAACCTGACATGAACTACGAGACCATGGGGCGAGCCCTGAGATATTATTATCAAAGAGGAATC
CTGGCCAAAGTGAAGGGCAGAGGCTGGTATACCAGTTCAGGAGATGCCTAAGGACTTGGTGGTGAAT
GATGATGAAGAAGAGAGCCCTGAGACACCAGAAGACTTCTCCAGGCCTCGACTTCTCCACACCCTCG
ACCACTACCATCCGGAGAGCCAGCTCCAGGGTCCGAACAGAGCCCTCCCGGAGGACAAGGATATCCCT
CCCTGGGAGAAGCAAAGTCCAACACACTGGTCTCCAGCCATCTGCAAGCCTGGAGTTAGGATTGTCT
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AAAATGTGAGTCTTCTCCAGCACCAAGTAAACATCCACCTAGGAGTAGCCCTGTGGGGCCTGGCTCC
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CCAACCTCAACTCGTTCTTCCAGAGTGTCCCGCAGGTGTCAACATTCAAGGACACCTTCACTTTCAGACC
TCCTTCCCGCTGAACACCAATTTGCAAGAGAACCAGGTGGCAACCCAAGGGGCCCACTGATCCTCAGT
GGTCTCCCGCACTTCTGGCTGGGGCAACCCTCAGAGCAACCCAGCTCCATCCAGGTCATAGGTGCT
GGGTCCAGAGGGCCTAGCTCTCAGCCCCCTGGGACTGTGATTGCTGCCTTATCAGGACTTCCAGTGGC
ACATCAGTGCCTGTGGTAAAGGAGGGGCCCTTGAGGTCTCTTCCATATGTGCAGGTTGTGGTTACTGGG
GCACCCGTGGAGGGGCTGTTGGTCTCTGAAGAGACCCTGAGAGAGCTCCTGAGAGATCAGGGTCATCTT
CAGCCACTTCCGAGTCAAGGTGCTCTCAAGGGTCCCATAACCTGAGCCTTGTGGGAACCAGACTCTC
TCTCCCGCTAGCCACCCACTGTTGGGTAACCCAGTGGCTGAGCTCGAGCTCTCGTCAAGGCTCAGGG
CCCCTGTTGTAAGTGAACCTAGTGTGACCAGATCCCCAACCCAGGCCCTTTCTCCCATTCATCCC
ACTTCCCTCATTAAAGATGGAACCCCAAGATATA
ACCGGTACGCGGCCGCTCGAGCAGAAACTATCTCAGAAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Protein Sequence:

>Peptide sequence encoded by MR217932
 Blue=ORF Red=Cloning site Green=Tag(s)

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MAIALQPSDLVFEFASNGMDDIHQLEDPSVFPVIVEQVPYPELVHLCGLDLDEVHNGIIRDRLCMT
QQQILEGSILLTDDVSTSNVSSTEVLFNVATPSDVLDEKQIFSSPEVLSDSNSVQAINLPNLLSTP
EPDDLKKTSDAGDQKEHSEEEKVSREENLRKMGKARKRNRKTKNNRSTSPVTDPSMPIRKKSKDGKST
IYLWELLALLQDRNTCPKYIKWTQREKGFKLVDKAVSKLWKGKQKNKPMNYETMGRALRYYYQIRGI
LAKVEGQRLVYQFKEMPKDLVVIDDEEESPETPEDSSQASTSSTPSTSTIRRASSRVGTRASPDKDIP
PWEKPKVQHTGLQPSASLELGLSVDEEVPTTSTMLASPLQSARLTKTVSSSPAPSNIHLGVAPVPGS
TYTLQTIPLTTVLTNGPPASTTAPTQLVLQSVQVSTFKDFTLQTSFPLNTNLQENQVATQGAPLILS
GLPQLLAGANPQSNPAPSQVIGAGSAGPSSQPPGTVIAAFIRTSSGTSVPVYKEGPLRSSYVQGVVTG
APVEGLLVPEETLRELLRDQGHLLQPLPSQVLSRGSNLSLVGNQTLSPPSHPTVGLTPVAEELSSGSG
PLFVTEPSVTRSPQAPFSPFNPTSLIKMEPQDI
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019680

ORF Size: 1965 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 Size: 5847 bp

RefSeq ORF: 1968 bp

Locus ID: 56501

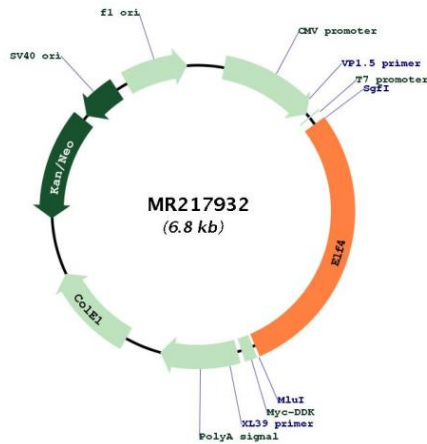
UniProt ID: [Q9Z2U4](#)

Cytogenetics: X A5

MW: 70.8 kDa

Gene Summary: Transcriptional activator that binds to DNA sequences containing the consensus 5'-WGGA-3'. Transactivates promoters of the hematopoietic growth factor genes CSF2, IL3, IL8, and of LYZ. Acts synergistically with RUNX1 to transactivate the IL3 promoter (By similarity). Also transactivates the PRF1 promoter in natural killer (NK) cells. Plays a role in the development and function of NK and NK T-cells and in innate immunity. Controls the proliferation and homing of CD8+ T-cells via the Kruppel-like factors KLF4 and KLF2. Controls cell senescence in a p53-dependent manner. Can also promote cellular transformation through inhibition of the p16 pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217932