

Product datasheet for **MC220176**

Elf4 (NM_019680) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC220176 representing NM_019680
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTATTGCTCTGAGCCAGTGATCTGGTCTTCGAGTTTGAAGCAACGGGATGGATGATATCCACC
 AGCTGGAAGACCCCTTCAGTGTTCCAGCCGTGATCGTGGAACAGGTCCCTATCCTGAATTAGTGATCT
 GTGCTCAGGACTGGATCTGGATGAGGTCCACAATGGCATCATAAGGGACAGGACCTTGTGCATGACACAG
 GATCAGATTTTAGAAGGCAGTATTTGCTGACAGATGATGATGTATCCACCTCAAATAACGTGTCATCCA
 CTGAAGTCCTATTCAATGTGGCAACTCCAGTGATGTCCTGGATGAGAAGCAGATCTTCAGCTCACCGGA
 AGTGCTTTCAGACTCCAACCTCTGTTCCAGCCATCAATCTACCCAACCTCCTGCTCTACCCCTGAACCT
 GATGACCTGAAGAAGACAAGTGATGCTGGTGACCAGAAGGAGCATTCTGAGGAGGAGAAGGTCTCCAGAG
 AGGAAAATCTTAGGAAGATGGGAAGGCACGGAAGAGAAAACCGAAAGACCAAGAACAACCGAAGTACCTC
 ACCTGTCACTGACCCTAGCATGCCTATACGGAAGAAATCAAAGATGGCAAAGGCAGCACCATTTATCTG
 TGGGAGTTCCTCCTGGCTCTTCTGCAAGACAGAAAACACCTGCCCAAGTACATTAAGTGGACGCAGAGAG
 AGAAGGGCATCTCAAGTTGGTGGACTCCAAGGCTGTGTCCAAGCTGTGGGGCAAGCAGAAAAACAACCC
 TGACATGAACTACGAGACCATGGGGCGAGCCCTGAGATATTATTCAAAGAGGAATCCTGGCCAAAGTG
 GAAGGGCAGAGGCTGGTATACCAGTTCAAGGAGATGCCTAAGGACTTGGTGGTATTGATGATGAAGAAG
 AGAGCCCTGAGACACCAGAAGACTTCCAGGCTCGACTTCTCCACACCCTCGACCAGTACCATCCG
 GAGAGCCAGCTCCAGGGTCGGAACCAGAGCCTCCCCGAGGACAAGGATAACCCCTCCCTGGGAGAAGCCA
 AAAGTCCAACACACTGGTCTCCAGCCATCTGCAAGCCTGGAGTTAGGATTGTCTGTGGATGAGGAGGTTT
 CCACCCTCCACCATGCTTCCAGCCACTACAGAGCCAGGCCAGGCTCACAAAACGTGAGTTCTTC
 TCCAGCACCCAGTAACATCCACCTAGGAGTAGCCCTGTGGGGCCTGGCTCCACTGTCCCTGACAGACC
 ATCCCCTGACTACGGTCTGACCAATGGGCTCCTGCCAGTACTACTGCTCCAACCTCAACTCGTTCTTC
 AGAGTGTCCCGCAGGTGTCAACATTCAAGGACACCTTCACTTTGCAGACCTCCTTCCCCCTGAACACCAA
 TTTGCAAGAGAACCAGGTGGCAACCCAAGGGGCCCACTGATCCTCAGTGGTCTCCCCAACTTCTGGCT
 GGGGCCAACCCCTCAGAGCAACCCAGCTCCATCCAGGTCATAGGTGCTGGGTGAGGAGGCTAGCTCTC
 AGCCCCCTGGGACTGTGATTGCTGCCTTATCAGGACTCCAGTGGCACATCAGTGCCTGTGGTAAAGGA
 GGGGCCCTTGGGCTCTTTCATATGTGCAGGGTGTGGTACTGGGGCACCCGTGGAGGGCTGTGGTT
 CCTGAAGAGACCCTGAGAGACTCCTGAGAGATCAGGTCATCTCAGCCACTCCGAGTCAAGTGTCTCT
 CAAGGGGTTCCATAACCTGAGCCTTGTGGGAACCAGACTCTCTCTCCCCTAGCCACCCCACTGTGG
 GCTAACCCAGTGGCTGAGCTCGAGCTCTGCTCAGGCTCAGGGCCCTGTTCGTAAGTGAAGCCTAGTGTG
 ACCAGATCCCCAACCCAGGCCCTTTCTCCCCATTCAATCCCACTTCCCTCATTAAAGATGGAACCCCAAG
 ATATATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_019680
- Insert Size:** 1968 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_019680.2](#), [NP_062654.2](#)

RefSeq Size: 5847 bp

RefSeq ORF: 1968 bp

Locus ID: 56501

UniProt ID: [Q9Z2U4](#)

Cytogenetics: X A5

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]