

Product datasheet for **MC223530**

Mkl2 (NM_001122667) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mkl2 (NM_001122667) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mkl2
Synonyms:	ENSMUSG00000075401; Gt4-1; mKIAA1243; MRTF-B; Mrtfb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223530 representing NM_001122667 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCACACAGGAGCCATAGACACAGAGGAAGAGCTGGGGCCTCTAGCCCATCTTGCACCAAGTCCTC
AAAGTGAGTCTGTGGCTCACGAATTCAGGAAGTGTCTTACAGTCCAGCCAGCACTTACCCACTCTGAA
CGAACGGAAAAATGTGCTCCAGCTGAGGCTGCAACAAAGGAGGACAAGAGAACAAGTGGACCAGGGC
ATCATGCCACCTTTGAAGAGTCCAGCAGCATTCCATGAGCAGATAAAAAGCCTGGAGCGAGCCAGAAGT
AGAATTTTCTGAAGCACAAAGATCCGGAGCCGCCAGACCGCTCTGAGCTTGTGAGGATGCATATTTTGA
AGAAACGTTTGCAGAGCCATCTCTTCAGGCCACACAGATGAAGCTGAAGAGAGCTCGGCTGGCAGATGAC
CTGAACGAGAAGATTGCTCAAAGGCCTGGTCCCATGGAGCTGGTGGAGAAGAATCCTTCTGTGGATT
CGAGTGTCAAGGAAGCGATTATAGGTGTGGTGAAGGAGGACTATCCTCACACTCATGGCGAGTTCTCATT
TGATGAAGATAGCAGTGTGCTTTGTCTCCAGACCAGCCAGCGAGCCAGGAGTCTCAGGGCTCAGCTGCA
TCCCCAGTGAGCCAAAAGTCAAGTGCCTCGCCACCTCCTGTGACTGCAAGCACTCCAGCCAGTTTACCT
CAGTGTCCCAGCAGTTCCTGAATTCCTGAAAACCCCTCTAACTGCAGACCAGCCTCCACAAGGTCTAC
AGCTCCCGTGCTCCCTACAAACTGTGTCTCAGCGAAGTCTGGCCCAATGCTGGTGAAGCAAAGCCAT
CCCAAGAATCCAAACGACAAACCCGTAGCAAAAAATGCAAAGATCCGAAACCGGAGTGAAGAAGCTTA
AGTACCACAGTACATTCACCCAACCAGAAGGGGGAGAAGAGCGAGCCACAGATGGACTCCAACTATGC
CCGCTGTCCAGCAGCAGCAGCTCTTCTACAGCTGCAGATCCTGAGCCAGCAGCAGCAACAGCAG
CAGCAGCACTACAACACCAGACCATCCTACCTGCACCCATCAAAGTGAAGAAGCAGCAGCAGCGCA
GTAAACAGCGGCAGTAGCAGCAGCATGCCGGCAGGAGGCCAGGACCGCTGCCCTCCAGCTTGGATGACTT
AAAGGTGTGAGAGCTGAAGACAGAACTCAAAGTGAAGGGTCTGCCAGTGTGAGGAACTAAACAGACCTC
ATTGAACGCTGAAACCCCTACCAGGAAGTACCAGTAGTAACTTGCCTGAGCAGTATTGTGGCAGTGT
CATCAGCAACCATTTGCACCAAGTAAACCCAGAGGTACAGTGGCACTGCCAGTCAACACTGCATAATGC
TGTAACAAGCTCTGTGTCCACTTCAAGGCAGACTTGGCACTTCTGCAACCAGCAGTGTGCCCATGTT



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GAAAATGCCCACTCTCCTCTGCCATCTCCCATCACCCCTCTGAGCAGTCCAGTCTCAGTACCGATGACA
 CAAACATGACAGACACCTTCACAGAGATCATGACTATGATGTCACCTTCCCAGTTGTTGTTCATCTCC
 CCTGAGGGTGGTGGCCATGATGACAGCCTGAGCCCTCCAGTAGCACCCCTGTCTACTCTAGAAGTGGAT
 GCTGCTGAGAAGGACCGCAAACCTCAGGAGAAGGAGAAACAGATTGAAGAAGTGAAGAGGAACTGGAAC
 AAGAACAGAAGCTTGTGGAGTCTCAAGATGCAGCTTGAGGTGGAAAAACGTGGCAGCAGCGACCACC
 AGACCTCAGCCAGTGTATCCCCACATCCCTTAATACATCAGATCCTAAACATGGCAGTGTGGGTCC
 TCCATCAAGGATGAGGCCTCACTCCCTGACTGCTCCAGCCCCAGCAGCCCATCACAGTGCCTGGCCACT
 CTGTAGGCCAGCCATCTCCACGGTAGCCAGACCCTTGTGGCCAAAAGACTGTGGTCGTCAAGCAAGA
 GGTCCCCATGGCCCAAGCAGAGCAGCAGAACGTTGTCTCGCAGTTCTACCTTAGTCCCAGGGACAGCCA
 CCTGCCCTTGTGCTCAGCCTCAGGCCTTACTGACCACACAGACAACCTCAGTGTGCTGCCAGTGTCCA
 TCCAGGGCTCAAATGTTACTTCACTGCAACTCCCAGTAGGCAGCCTTCAACTCCAGACCCAGCACAAGG
 AAGAGTCCAGGCTCAGCCTCATGTAGTGTGCCACACAGGTTCCAGTGCAGCCCTGCCCTCAGCCTTG
 ACCTCAGCACTGCCTCAGAAGCAGGAAGCCTTCCACAGCAGTGTGGGCCAGCCTCAGCCAGTCAGAA
 AGGTCTTCACAACTCGGCACCAACACAGTCTTCAATCCAGAACTGCCCACTTGCCACCTGCAAAAT
 GGACCCAGCCTAGCCAGCAAGCCTAGCTACCACCCACCCAGCAGTTTGTGTTTCAGCACTCTTGT
 TTGCAACCCCAATCACGAAGACAAAAGATCCACCTCGATATGAGGAAGCCATCAAGCAGGCAGTAGCAC
 ACAGCCAGCCCTTCCAGAGGTTTCCAGTGTGCACAGTGCAGAGTGGACGACCTCTTCGACATCCTCATA
 AAGAGTGGAGAGATTTCTTCCCAATAAAAAGAGGCCTTCTCCAATTTCCAAGTGAACCAGTGCAGC
 CCAGCATCACCAATGCCAGTCAATACCGTGGTCTCTCGACCACCGCCAGGTCCAAATAGCACCACC
 TGTATCCTTAGAACCTGTGAACAGTTTATCTGCCAGCTTAGAGAACCAGCTAGAAGCCTTCTTGGATGGC
 ACTTTGCCCTCGGCCACTGACACTGGCCACTGCAGAACAGCAGTGAAGATAGAGAGTCTTCTCTCTGA
 TCGAGGATCTGCAGAACGACTTGTGAGTCAATCCAGCATGTACCAGTCTCACTCTCCATGGAGAC
 CTCTGAGGCCAGTTGGTGTGAGGGACCCCTGTCTATCTTTCAGCTGTGAGACTCCAACCTGGACAAC
 ATGGAGTGGCTAGACATTACCATGCCACCACATCCTCCGGGCTCACTCCACTGAGTACCACTGCGCCAA
 GCATGTTCTCTGCTGATTTTCTGGACCCACAGGACCTGCCGCTGCCATGGGACTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001122667
- Insert Size:** 3276 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_001122667.2](#), [NP_001116139.1](#)

RefSeq Size: 8281 bp

RefSeq ORF: 3276 bp

Locus ID: 239719

Cytogenetics: 16 A1

Gene Summary: Acts as a transcriptional coactivator of serum response factor (SRF). Required for skeletal myogenic differentiation.[UniProtKB/Swiss-Prot Function]