

## Product datasheet for **SC115193**

### **MRTFB (NM\_014048) Human Untagged Clone**

#### **Product data:**

|                           |                                        |
|---------------------------|----------------------------------------|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | MRTFB (NM_014048) Human Untagged Clone |
| Tag:                      | Tag Free                               |
| Symbol:                   | MRTFB                                  |
| Synonyms:                 | MKL2; MRTF-B; NPD001                   |
| Mammalian Cell Selection: | None                                   |
| Vector:                   | <u>pCMV6-XL5</u>                       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                 |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_014048, the custom clone sequence may differ by one or more nucleotides

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ATGGATCACACAGGGGCGATAGACACCGAGGATGAAGTGGGACCTTTAGCCCATCTTGCTCCAAGTCCTC
AGAGTGAAGCTGTGGCTCATGAATTCAGGAACCTCCTTGTCAGTCCAGTCAAACTTACCCCTCTGAA
CGAAAGGAAAAATGTGCTCCAGCTGAGGCTGCAACAAAGGAGGACGAGAGAACAACTAGTGGACCGGGC
ATCATGCCACCTTTGAAGAGCCGAGCGGCATTCCATGAACAGATAAAAAGCTTGGAACGAGCCGAACTG
AAAACCTTTTTGAAACACAAGATTGCGAGTCGACCAGATCGTTCTGAACTTGTGAGGATGCACATTTAGA
AGAAACATTTGCAGAGCCATCCCTGCAGGCTACTCAGATGAAGTTGAAAAGAGCTCGACTAGCAGATGAT
CTGAATGAAAAGATTGCTCAAAGACCTGGTCTATGGAGCTGGTAGAGAAAAACATCCTTCTGTGGACT
CCAGTGTTAAAGAAGCAATTATAGGCGTTGGGAAGGAGGACTATCCCACACTCAGGGCGATTTCTCATT
TGATGAAGACAGCAGTGACGCTTTGTCTCCGACCAGCCTGCGAGTCAGGAGTCACAGGGGTCAGCCGCG
TCCCCAAGTGAGCAAAAGTTAGTGAATCGCCATCTCCTGTGACTACAAACACTCCAGCGCAGTTTGCTT
CAGTGTCCCCAACAGTTCTGAATTCCTGAAAACCTCCTCAACTGCAGATCAGCCTCCCCACGGCCTGC
AGCTCCTGTCTCTCCCAACAACTGTGTCTCAGCAAAGCCTGGCCAGCACTGGTGAAGCAAAGCCAT
CCCAAGAATCCAATGACAAACACCGTAGCAAAAAGTGCAAAGATCCCAACACGGGTAAAGAAGTTAA
AGTACCACCAATACATTCCACCAGATCAGAAGGTGAGAAGAATGAGCCGAGATGGACTCTAATACGC
CCGCTGCTCCAGCAGCAGCAGCTGTTCTGCAACTGCAGATCCTGAGTCAGCAGAAGCAGCACTACAAC
TACCAGACCATCTGCCTGCACCATTAAGCCACTCAATGACAAAAATAGTAACAGTGGGAATTCAGCTT
TGAACAATGCCACACCTAACACACCAAGACAGAATACATCTACTCCTGTGAGAAAGCCAGGACCTTGCC
TTCTAGCCTGGATGACTTAAAGGTATCAGAACTGAAGACAGAAGTGAAGTTAAGGGGTCTGCCAGTGTC
GGCACCAAACCGGACCTCATTGAGCGCCTAAACCCCTACCAGGAAGTGAACAGCAGCGGCCTTGCTGCTG
GGGGCATCGTGGCAGTGTATCATCAGCCATTGTCAACAGTAACCCAGAAGTCACTGTGGCCTTGCCGGT
TACAACACTACACAACACTGTGACTAGCTCAGTCTCTACTCTCAAGGCAGAATTGCCACCTACAGGAACC
AGCAACGCAACCCGTGTGAAAAATGTTCAATCCCTCTGCCCATTTACCATCTCCCTCCGAACAGTCCA
GTCTCAGTACTGATGACACAAACATGGCAGACACTTTCACCGAGATTATGACCATGATGTCGCCTTCACA
GTTCTTGAGTTCATCTCCTTTGAGAATGACAAATATGAAGACAGTCTGAGTCCCACCAGCAGCACTCTG
TCAAACCTGGAAGTGGATGCAGCCGAAAAGGATCGCAAGCTTCAGGAGAAAGAGAAGCAATCGAAGAGC
TGAAGAGGAACTGGAACAAGAGCAGAAGCTCGTGAAGTGTGAAAATGCAACTTGAGGTTGAAAAACG
AGGGCAGCAGCAGCGGCCCTGGAAGCCCAGCCAGTGGCCAGGTCATTCTGTCAAGTCAGATCAGAAG
CAGGGCAGCCTTGCTCCTCCATCAAAGATGAGGCCTCACTCCCTGACTGCTCCAGCTCCAGGCAGCCCA
TCCAGTAGCCAGCCACGCTGTAGGCCAGCCCGTCTCTACAGGTGGCCAGACCCTTGTTGCCAAAAGGC
TGATGTTATCAAGCAAGAGGTCCCTGTGGGCCAGGCAGCAGCAGAGTGTGCTCTCGCAGTTTTATACT
TCACCACAAGCAGGAATGCAGACTCAGCCTCAGATAGCAACTGCTGCACAAATACCAACTGCTGCCTTG
CCTCAGGCTTGCCCCAACTGTACCTCAGACACAAGACACGTTCCCGCAGCATGTGCTCAGTCAGCCTCA
ACAAGTCAGAAAGGTTTTCAAACTCAGCATCATCAAATACAGTTCTTCCATATCAGAGACATCCTGCC
CCAGCTGTCCAGCAGCCCTTTATCAATAAGGCCTCCAACAGTGTCTTCAATCCAGAAATGCTCCGCTTC
CATCCCTGCAAAATGGACCTAACACACCCAACAAGCCTAGTTCACCCCGCCACCCAGCAATTTGTGCT
CCAGCACTCTCTATTTGGGAGTCCAGTCGCCAAGACAAAAGATCCCCCGCTATGAGGAGGCCATCAAG
CAGACACGCAGCACACAGGCCCTCTGCCAGAGATTTCCAACGCTCACAGTCAGCAGATGGATGACCTCT
TTGATATCCTCATTAAAGAGTGGAGAGATCTCCCTCCCCATAAAAGAAGAACCCTTCTCCTATTTCCAAAT
GAGACCAGTGACAGCCAGCATACCACAATGCCAGTGAATACAGTGGTGTCCGGGCCACCAACCCAGTC
CAAATGGCACCACCTGTATCTTTAGAACCTATGGGCAGTTTATCTGCCAGCTTAGAGAACCAACTAGAAG
CTTTCTTGATGGAACCTTACCCTCAGCCAATGAAATTCCTCCACTACAAAGCAGCAGTGAAGACAGAGA
GCCCTTCTCTGATCGAGGACCTCCAGAATGATCTGCTGAGTCACTCAGGTATGCTGGACCATTCACAC
TACCCATGGAGACTTCCGAGACCCAGTTTGCTGCAGGTACTCCCTGTCTGTCTCTGCACCTGTCAGACT
CAAACCTGGACAACATGGAGTGGTTGGACATTACCATGCCCAACTCCTCTTCAGGACTCACTCCTCTCAG
CACCACCGCGCCGAGCATGTTCTCTGCTGACTTCTAGACCCACAGGACCTACCGCTGCCATGGGACTAA

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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014048 unedited  
 GGTAGGATTTGTATCCGACTCCTATAGGCGGCCGCGCAATTTCGCACGAGGCCTCGTGCCG  
 AATTTCGGCAGCAGGCAGCTATCCCCACAAGTGATGAGATAGTCCCTTTACTGTCCTCAAA  
 TGGACTTGGCCTTAGAGACGTGGTAAAGCACTTTGGCAGGGTTTAAAAATTTTGTGAGAA  
 GCCCACATTTTCAGTATACATCCTCACTGGCTTCCATGCACCCACCTGACGGTAGCCTCAC  
 AGAAGTCTGGCTGTCACTCAGGTGGGAGCTCATGGTGCCGCTGGGACTTTTTAGAGA  
 AATGTAAAGAGAATAGCTATTCAGTGTCTACTAGCAGAGCAACATGTGTCAATTTAACCA  
 AATTCACAAATAACCTCCATTTTCAATATCTGCTACTGTAAACATGAATATTGAATAC  
 TGACAAGAGAATACCCATACAAATCGTCCACCGCCCTAGAGGCCACAGAATTAGCCCAA  
 AATTATCAAAGAACATTAAGTGAAGGTCAGGTTTTTCAAGGAACATAGCTTACAAATGC  
 ATCAGTGTGTATCTGGAGAGCATCCTAACTGCATTTCAACTCATCTTTAAGTGATTTCA  
 GTCAAACTGGAAAACAATAAGATGTAGTAATTTTTTTTTCTGGTTCAAACCTTCAAT  
 AACTTGCTCATTAGCAGTCTCTGAGCTACATTTTATTTGTAAAGTACTCTGTCTG  
 CATGGCAATGAGCAGGTGCGTGTGTTCACATTCGCCCTTTCTTGAGTATCCAGGGA  
 AACACATCATTACAAAGGGGTTCTACCTGNAATCTTTCATGGNAGGCCTACCATTGAAA  
 AGCTGCACATGTTTACAGAAGAGCTCCTACCCTNCATGCAAACTTTGCTCTGTGGTGT  
 ACAGCTTTGTGACATTAGATGCA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_014048 unedited  
 CCGCGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTACATCAAAAGGTGCTTTATTTGAGACACAAAAAGGCAAAATTGCGGAGATATCAA  
 ACATTTGCCGATCAGCTACAATTCGCCACTATGTACAAAAGATTGATGATAAAGGGGC  
 ACACATATAAAAAACAGTATGCATTACTTATGTACAGTACATGTGCAAAATGTATGGGA  
 TTCAAACATGATATGGAATTGATTTAGGGGTGCAACAGCAAAATACAAAGGCATCATGG  
 CTTTTCTTTAAAAAACATAAAGGCATTAGATGAATGGACCCCGATTGCCATAATT  
 TTTTGGTGATTAACTAGTGCTTCAACAAGCAGGGCTCTGGAGATTGGTATCTTTCTCCT  
 TTTTTTCATAAAGGGAGATGCTAAGACATAATGGGACTTTGAAAAATAAAGAGAAACAC  
 CTATCACATTGCATTTCTATTGCAAGCAAGAAAAGAAAATAATTTCTACATAGAAAAAA  
 AACTTTGTATTACTGAATGTACTCTTAAACCAACAAAACAACTCTATACTATTTTA  
 CATGAAAACAATAAGAGATATATCTACATCTTTAGTGAATTTATAACCTTAAATGGAT  
 AATACCTTTTGTGGGCTGACTTTTGAGGATCTCATTGGCCTCAAAATTTAAATAAAGC  
 TGCTTCCTTTTCGGCAAAACCTTGAAGTGCCTTTGGTTCCTCTAAACCAAGTTNGCAT  
 TACTTATTGTTTACTTGAGGGCAAGCCCTTTGGGTAAAACTAAACACTTCTCTAAAGC  
 TTTCTTTTCTACCAATAATACAGATTCTTCACCCTTCACGAGAAGAGGTATATGGTAC  
 CAGAGTTTAAATTTCTATAACTTTGNTAAAGCCTCTGCCTCAAAATTGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_014048

**Insert Size:**

1960 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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                  |
| <b>RefSeq:</b>                | <u>NM_014048.1, NP_054767.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>RefSeq Size:</b>           | 8680 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq ORF:</b>            | 414 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Locus ID:</b>              | 57496                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID:</b>            | <u>Q9ULH7</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cytogenetics:</b>          | 16p13.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Families:</b>      | Transcription Factors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Summary:</b>          | <p>Acts as a transcriptional coactivator of serum response factor (SRF). Required for skeletal myogenic differentiation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |