

## Product datasheet for **MC217411**

### Runx2 (NM\_009820) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Runx2 (NM_009820) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Runx2
Synonyms:	AM; AML3; Cbf; Cbfa; Cbfa-1; Cbfa1; LS3; Os; Osf2; PEB; Pebp2a1; PEBP2aA; Pebpa2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >NM\_009820.4  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGTCAAACAGCCTCTTCAGCGCAGTGACACCGTGTGAGCAAGCTTCTTTGGGATCCGAGCACCA  
 GCCGGCGCTTCAGCCCCCTCCAGCAGCTGCAGCCCGCAAGATGAGCGACGTGAGCCGGTGGTGGC  
 TGCAGCAGCAGCAACAGCAGCAGCAGCAGCAACAGCAGCAACAGCAACAGCAACAGCAACAGCAG  
 CAGCAGCAGCAGCAGCAGGAGGCGGCCGAGCAGCAGCGGCCGAGCGGCCGAGCAGCGGCCGCGG  
 CGGCCGAGTGCCTGATTGAGGCCGCCGACGACAACCGCACCATGGTGGAGATCATCGCGGACCACCC  
 GGCCGAAGTGGTCCGACCGACAGTCCCAACTTCTGTGCTCCGTGCTGCCCTCGCACTGGCGGTGCAAC  
 AAGACCTGCCCGTGGCCTTCAAGTTGTAGCCCTCGGAGAGGTACCAGATGGGACTGTGGTTACCGTCA  
 TGGCCGGGAATGATGAGAACTACTCCGCCGAGCTCCGAAATGCCTCCGCTGTTATGAAAAACCAAGTAGC  
 CAGTTCAACGATCTGAGATTTGTGGCCGGAGCGGACGAGGCAAGAGTTTCACCTTGACCATAACAGTC  
 TTCACAAATCCTCCCAAGTGGCCACTTACCACAGAGCTATTAAGTACAGTGGACGGTCCCGGGGAAAC  
 CAAGAAGGCACAGACAGAAGCTTGATGACTCTAAACCTAGTTTGTCTCTGATCGCCTCAGTGATTTAGG  
 GCGCATTCCTCATCCCAGTATGAGAGTAGGTGTCCCGCCTCAGAACCCACGGCCCTCCCTGAACTCTGCA  
 CCAAGTCTTTAATCCACAAGGACAGAGTCAGATTACAGATCCCAGGCAGGCACAGTCTTCCCCACCGT  
 GGTCTATGACCAAGTCTTACCCCTCCTATCTGAGCCAGATGACATCCCCATCCATCCACTCCACCAGCC  
 GCTGTCTTCCACACGGGGCACCAGGCTACCTGCCATCACTGACGTGCCAGGCGTATTTAGATGATGAC  
 ACTGCCACCTCTGACTTCTGCCTCTGGCCTTCTCTCAGTAAGAAGAGCCAGGCAGGTGCTTCAGAAC  
 TGGGCCCTTTTTCAGACCCAGGCAGTTCCAAGCATTTCATCCCTCACTGAGAGCCGCTTCCCAACCC  
 ACGAATGCACTACCCAGCCACCTTACCTACACCCCGCCAGTCAGTCAGGCATGTCCCTCGGCATGTCC  
 GCCACCACTCACTACCACAGTACCTGCCACCACCTACCCCGGCTTCCCAAAGCCAGAGTGGACCCT  
 TCCAGACCAGCAGCACTCCATATCTCTACTATGGTACTTCGTGAGCATCTATCAGTTCCCAATGGTACC  
 CGGGGAGACCGGTCTCCTTCCAGGATGGTCCCACCATGCACCACCCTCGAATGGCAGCAGCTATTA  
 AATCCAAATTTGCCTAACAGAATGATGGTGTGACGCTGACGGAAGCCACAGCAGTTCCCAACTGTTT  
 TGAATTCTAGCGGCAGAATGGATGAGTCTGTTGGCGCCATATTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1453\\_g08.zip](https://cdn.origene.com/chromatograms/ja1453_g08.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_009820

**Insert Size:** 1587 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\\_009820.4](#), [NP\\_033950.2](#)

**RefSeq Size:** 5865 bp

**RefSeq ORF:** 1587 bp

**Locus ID:** 12393

**UniProt ID:** [Q08775](#)

**Cytogenetics:** 17 21.33 cM

**Gene Summary:** This gene encodes a member of the runt domain-containing family of transcription factors. This protein is essential for osteoblastic differentiation and skeletal morphogenesis and acts as a scaffold for nucleic acids and regulatory factors involved in skeletal gene expression. The protein can bind DNA both as a monomer or, with more affinity, as a subunit of a heterodimeric complex. Transcript variants that encode different protein isoforms result from the use of alternate promoters as well as alternate splicing. [provided by RefSeq, Sep 2015]

Transcript Variant: This variant (3) represents use of a distal promoter. It lacks a segment in 5' UTR and encodes the same isoform 1, compared to variant 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.