

## Product datasheet for **MC227617**

### Runx2 (NM\_001271631) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Runx2 (NM_001271631) 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)



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**Fully Sequenced ORF:** >MC227617 representing NM\_001271631  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**C

ATGCGTATTCTGTAGATCCGAGCACCAGCCGGCGCTTCAGCCCCCTCCAGCAGCCTGCAGCCCGGCA  
 AGATGAGCGACGTGAGCCGGTGGTGGCTGCGCAGCAGCAGCAACAGCAGCAGCAGCAGCAACAGCA  
 GCAGCAACAACAGCAACAGCAACAACAGCAGCAGCAGCAGCAGCAGCAGGAGCGGCCGAGCAGCAGCG  
 GCGGCAGCGCGCGGCAGCAGCGCGCGGCCGAGTGCCTCGATTGAGGCCGCGCACGACAACCGCA  
 CCATGGTGGAGATCATCGCGACCACCGGCCGAAGTGGTCCGACCGACAGTCCCAACTTCTGTGCTC  
 CGTGCTGCCCTCGCACTGGCGGTGCAACAAGACCCTGCCGTGGCCTTCAAGTTGTAGCCCTCGGAGAG  
 GTACCAGATGGGACTGTGGTTACCGTCATGGCCGGGAATGATGAGAACTACTCCGCCGAGCTCCGAAATG  
 CCTCCGCTGTTATGAAAAACCAAGTAGCCAGGTTCAACGATCTGAGATTTGTGGGCCGGAGCGGACGAGA  
 TCCAGGCAGGCACAGTCTTCCCACCGTGGTCTATGACCAGTCTTACCCTCCTATCTGAGCCAGATG  
 ACATCCCATCCATCCACTCCACCACGCCGCTGTCTTCCACACGGGGCACCGGGTACCTGCCATCACTG  
 ACGTGCCAGGCGTATTTAGATGATGACACTGCCACCTCTGACTTCTGCCTCTGGCCTTCTCTCTCAG  
 TAAGAAGAGCCAGGCAGGTGCTTCAGAACTGGGCCCTTTTTCAGACCCAGGCAGTTCCTCAAGCATTTCA  
 TCCCTCACTGAGAGCCGCTTCTCCAACCCACGAATGCACTACCCAGCCACCTTTACCTACACCCGCCAG  
 TCACGTGAGGCATGTCCCTCGGCATGTCCGCCACCACTCACTACCAACGTACCTGCCACCACCCTACCC  
 CGGCTCTTCCAAAGCCAGAGTGGACCTTCCAGACCAGCAGCACTCCATATCTACTATGGTACTTCG  
 TCAGCATCCTATCAGTTCCCAATGGTACCCGGGGAGACCGGTCTCCTTCCAGGATGGTCCACCATGCA  
 CCACCACCTCGAATGGCAGCAGCTATTAATCCAAATTTGCCTAACCAAGATGATGGTGTGACGCTGA  
 CGGAAGCCACAGCAGTTCCTCAACTGTTTTGAATCTAGCGGCAGAAATGGATGAGTCTGTTTGGCGCCA  
 TATTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001271631

**Insert Size:** 1266 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** NM\_001271631.1, NP\_001258560.1

**RefSeq Size:** 5724 bp

**RefSeq ORF:** 1266 bp

**Locus ID:** 12393

**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 (6) represents use of a proximal promoter. It lacks two alternate exons including the 5' UTR and a portion of the 5' coding region, initiates translation in an alternate 5' segment, and lacks two internal in-frame coding exons, compared to variant 1. The encoded isoform (4) has a distinct N-terminus and 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.