

Product datasheet for **MR230394**

Runx2 (NM_001271627) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Runx2 (NM_001271627) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR230394 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGTCAAACAGCCTCTTCAGCGCAGTGACACCGTGTGAGCAAGCTTCTTTGGGATCCGAGCACCA
 GCCGGCGCTTCAGCCCCCTCCAGCAGCTGCAGCCCGCAAGATGAGCGACGTGAGCCGGTGGTGGC
 TGCAGCAGCAGCAACAGCAGCAGCAGCAGCAACAGCAGCAACAGCAACAGCAACAGCAACAGCAG
 CAGCAGCAGCAGCAGCAGGAGGCGGCCGAGCAGCAGCGGCCGAGCGGCCGAGCAGCGGCCGCGG
 CGGCCGAGTGCCTGATTGAGGCCGCCGACGACAACCGCACCATGGTGGAGATCATCGCGGACCACC
 GGCCGAAGTGGTCCGACCGACAGTCCCAACTTCTGTGCTCCGTGCTGCCCTCGCACTGGCGGTGCAAC
 AAGACCTGCCGTGGCCTTCAAGGTTGTAGCCCTCGGAGAGGTACCAGATGGGACTGTGGTTACCGTCA
 TGGCCGGGAATGATGAGAACTACTCCGCCGAGCTCCGAAATGCCCTCGCTGTTATGAAAAACCAAGTAGC
 CAGGTTCAACGATCTGAGATTTGTGGCCGGAGCGGACGAGGCAAGAGTTTCACCTTGACCATAACAGTC
 TTCACAAATCCTCCCAAGTGGCCACTTACCACAGAGCTATTAAGTACAGTGGACGGTCCCGGGAAC
 CAAGAAGGCACAGACAGAAGCTTGATGACTCTAAACCTAGTTTGTCTCTGATCGCCTCAGTGATTTAGG
 GCGCATTCTCATCCAGTATGAGAGTAGGTGTCCCGCCTCAGAACCCACGGCCCTCCCTGAACTCTGCA
 CCAAGTCTTTAATCCACAAGGACAGAGTCAGATTACAGATCCAGGCAGGCACAGTCTTCCCCACCGT
 GGTCTATGACCAAGTCTTACCCCTCCTATCTGAGCCAGATGACATCCCCATCCATCCACTCCACCACGCC
 GCTGTCTTCCACACGGGGACCGGGCTACCTGCCATCACTGACGTGCCAGGCGTATTTAGATGATGAC
 ACTGCCACCTCTGACTTCTGCCTCTGCCCTTCTCTCAGTAAGAAGAGCCAGGCAGGTGCTTCCAGAAC
 TGGGCCCTTTTTCAGACCCAGGCAGTCCCAAGCATTTCATCCCTCACTGAGAGCGGCTTCTCCAACCC
 ACGAATGCACTACCCAGCCACCTTACCTACACCCCGCCAGTCAGTCAAGCATGTCCCTCGGCATGTCC
 GCCACCACTCACTACCACAGTACCTGCCACCACCTACCCCGGCTTCTCCAAAGCCAGAGTGGACCTT
 TCCAGACCAGCAGCACTCCATATCTCTACTATGGTACTTCGTGACATCCTATCAGTTCCCAATGGTACC
 CGGGGAGACCGGTCTCCTTCCAGGATGGTCCCACCATGCACCACCCTCGAATGGCAGCAGCTATTA
 AATCCAAATTTGCCTAACAGAATGATGGTGTGACGCTGACGGAAGCCACAGCAGTTCCCAACTGTTT
 TGAAATCTAGCGGCAGAATGGATGAGTCTGTTGGCGCCATAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230394 protein sequence
 Red=Cloning site Green=Tags(s)

MASNSLFSAVTPCQQSFFWDPSTSRRFSPSSSLQPGKMSDVSPVVAQQQQQQQQQQQQQQQQQQQQ
 QQQQQQEAAAAAAAAAAAAAAAAAVPRLRPPHDNRTMVEIIADHPAELVRTDSPNFLCSVLPSHWRCN
 KTLPVAFKVVVALGEVPDGTVVTVMAGNDENYSaelRNASAVMKNQVARFNDLRFVGRSGRGKSFTLTITV
 FTNPPQVATYHRAIKVTVDGPREPRHRQKLDLSDKPSLFSdRLSDLGRIPHSMRVGVPVQNPRLNSA
 PSPFNPQGSQITDPRQAQSSPPWSYDQSYPSYLSQMTSPSIHSTTPLSSTRGTGLPAITDVPRRISDDD
 TATSDFCLWPSSLKKSQAGASELGPFSdPRQFPSISSLTESRFsNPRMHYPATFTYTPPVTSGMSLGMS
 ATTHYHTYLPpPYGSSQSGPFQTSSTPYLYGTSSASyQFPMVPGGDRSPSRMVPPCTTTsNGSTLL
 NPnLPnQNDGVDADGSHSSSPTVLNssGRmDESvWRPY

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDK**V**

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001271627

ORF Size: 1584 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001271627.1](#), [NP_001258556.1](#)

RefSeq Size: 5904 bp

RefSeq ORF: 1587 bp

Locus ID: 12393

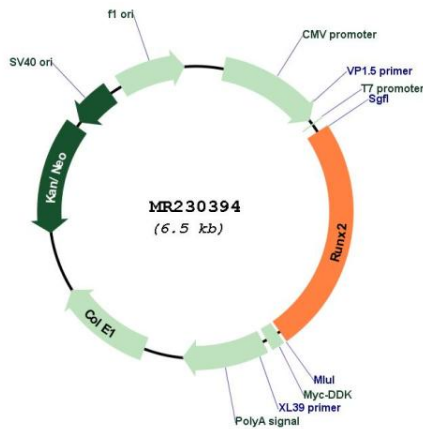
UniProt ID: [Q08775](#)

Cytogenetics: 17 21.33 cM

MW: 57.4 kDa

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]

Product images:



Circular map for MR230394