

Product datasheet for **MR230001**

Runx2 (NM_001271630) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Runx2 (NM_001271630) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Runx2
Synonyms:	AM; AML3; Cbf; Cbfa; Cbfa-1; Cbfa1; LS3; Os; Osf2; PEB; Pebp2a1; PEBP2aA; Pebpa2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230001 representing NM_001271630
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGTATTCTGTAGATCCGAGCACCAGCCGGCGCTTCAGCCCCCTCCAGCAGCCTGCAGCCGGCA
 AGATGAGCGACGTGAGCCGGTGGTGGCTGCGCAGCAGCAACAGCAGCAGCAGCAGCAACAGCA
 GCAGCAACAACAGCAACAGCAACAACAGCAGCAGCAGCAGCAGCAGCAGCAGGAGCGGCCGAGCAGCG
 GCGGCAGCGCGCGGCAGCAGCGCGCGGCCGAGTCCCGGATTGAGGCCGCGCACACAACCGCA
 CCATGGTGGAGATCATCGCGACCACCCGGCCGAAGTGGTCCGCACCGACAGTCCCAACTTCTGTGCTC
 CGTGCTGCCCTCGCACTGGCGGTGCAACAAGACCCTGCCCGTGGCCTCAAGTTGTAGCCCTCGGAGAG
 GTACCAGATGGGACTGTGGTTACCGTCATGGCCGGGAATGATGAGAACTACTCCGCCGAGCTCCGAAATG
 CCTCCGCTGTTATGAAAAACCAAGTAGCCAGGTTCAACGATCTGAGATTTGTGGCCGGAGCGGACGAGG
 CAAGATTTACCTTGACCATAACAGTCTTCAAAATCCTCCCCAAGTGGCCACTTACCACAGAGCTATT
 AAAGTGACAGTGGACGGTCCCCGGGAACCAAGAAATCCCAGGCAGGCACAGTCTTCCCCACGGTGGTCTT
 ATGACCAGTCTTACCCTCCTATCTGAGCCAGATGACATCCCCATCCATCCACTCCACCACGCCGCTGTC
 TTCCACACGGGGACCGGGTACCTGCCATCACTGACGTGCCAGGCGTATTTAGATGATGACTGCTGCC
 ACCTCTGACTTCTGCCTCTGGCCTTCTCTCAGTAAGAAGAGCCAGGCAGGTGCTTCCAGAACTGGGCC
 CTTTTTCAGACCCAGGCAGTTCCTCAAGCATTTCCCTCACTGAGAGCCGCTTCTCCAACCCACGAAT
 GCACTACCCAGCCACCTTACCTACACCCCGCCAGTCACGTCAGGCATGTCCCTCGGCATGTCCGCCACC
 ACTCACTACCACAGTACCTGCCACCACCTACCCGGCTTCCCAAAGCCAGAGTGGACCTTCCAGA
 CCAGCAGCACTCCATATCTACTATGGTACTTCTGTCAGCATCCTATCAGTTCCTCAATGGTACCCGGGGG
 AGACCGGTCTCCTTCCAGGATGGTCCCACCATGCACCACCTCGAATGGCAGCAGCTATTAATCCA
 AATTTGCCTAACCAAGATGATGGTGTGACGCTGACGGAAGCCACAGCAGTTCCTCAACTGTTTTGAATT
 CTAGCGGCAGAATGGATGAGTCTGTTTGGCGCCATAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230001 representing NM_001271630
 Red=Cloning site Green=Tags(s)

MRIPVDPSTSRFFSPPSSSLQPGKMSDVSPVVAQQQQQQQQQQQQQQQQQQQQQQQQQQQEEAAAAA
 AAAAAAAAAAAVPRLRPPHDNRTMVEIIADHPAELVRTDSPNFLCSVLPSHWRCNKTLPVAFKVVVALGE
 VPDGTVVTVMAGNDENYSaelRNASAVMKNQVARFNDLRFVGRSGRGKSFLLITVFTNPPQVATYHRAI
 KVTVDGPREPRNPRQAQSSPPWSYDQSYPSYLSQMTSPSIHSTPLSSTRGTGLPAITDVPRRISDDDTA
 TSDFCLWPSSLSKKSQAGASELGPFS DPRQFPSISSL TESRF SNPRMHYPATFTYTPPVTS GMSL GMSAT
 THYHTYLPPPYPGSSQSQSGPFQTSSTPYLYGTSSASYQFPMVPGDRSPSRMVPPCTTTSNGSTLLNP
 NLPNQNDGVDADGSHSSSPTVLNSSGRMDES VWRPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

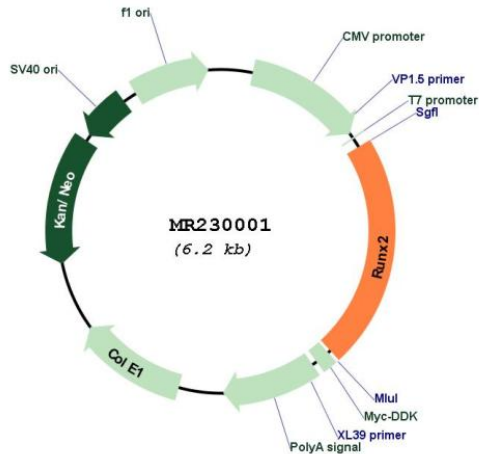
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271630

ORF Size: 1368 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_001271630.1](#), [NP_001258559.1](#)

RefSeq Size: 5829 bp

RefSeq ORF: 1371 bp

Locus ID: 12393

Cytogenetics: 17 21.33 cM

MW: 49.9 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]