

Product datasheet for **MC217412**

Runx2 (NM_001146038) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Runx2 (NM_001146038) 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: >MC217412 representing NM_001146038
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGTCAAACAGCCTCTTCAGCGCAGTGACACCGTGTGACAAAGCTTCTTTGGGATCCGAGCACCA
 GCCGGCGCTTCAGCCCCCTCCAGCAGCCTGCAGCCCGCAAGATGAGCGACGTGAGCCGGTGGTGGC
 TGCAGCAGCAGCAACAGCAGCAGCAGCAGCAACAGCAGCAACAGCAACAGCAACAGCAACAGCAG
 CAGCAGCAGCAGCAGCAGGAGGCGGCCGAGCAGCAGCGGCCGAGCGGCCGAGCAGCGGCCGCGG
 CGGCCGAGTGCCTGATTGAGGCCGCCGACGACAACCGCACCATGGTGGAGATCATCGCGGACCACCC
 GGCCGAAGTGGTCCGACCGACAGTCCCAACTTCTGTGCTCCGTGCTGCCCTCGCACTGGCGGTGCAAC
 AAGACCTGCCCGTGGCCTTCAAGTTGTAGCCCTCGGAGAGGTACCAGATGGGACTGTGGTTACCGTCA
 TGGCCGGGAATGATGAGAACTACTCCGCCGAGCTCCGAAATGCCCTCCGCTTTATGAAAAACCAAGTAGC
 CAGTTCAACGATCTGAGATTTGTGGCCGGAGCGGACGAGGCAAGAGTTTACCTTGACCATAACAGTC
 TTCACAAATCCTCCCAAGTGGCCACTTACCACAGAGCTATTAAGTGACAGTGGACGGTCCCGGGAAC
 CAAGAAGGCACAGACAGAAGCTTGATGACTCTAAACCTAGTTTGTCTCTGATCGCCTCAGTGATTTAGG
 GCGCATTCCTCATCCCAGTATGAGAGTAGGTGTCCCGCCTCAGAACCCACGGCCCTCCCTGAACTGTGA
 CCAAGTCTTTAATCCACAAGGACAGAGTCAGATTACAGATCCCAGGCAGGCACAGTCTTCCCCACCGT
 GGTCTATGACCAAGTCTTACCCCTCCTATCTGAGCCAGATGACATCCCCATCCATCCACTCCACCAGCC
 GCTGTCTCCACACGGGGCACGGGGTACCTGCCATCACTGACGTGCCAGGCGTATTTAGATGATGAC
 ACTGCCACCTCTGACTTCTGCCCTTCTCTCTCAGTAAGAAGAGCCAGGCAGGTGCTTCCAAACC
 TGGGCCCTTTTTCAGACCCAGGCAGTTCCCAAGCATTTCATCCCTCACTGAGAGCCGCTTCCAAACC
 ACGAATGCACTACCCAGCCACCTTTACCTACACCCCGCCAGTCAGTCAGGCATGTCCCTCGGCATGTCC
 GCCACCACTCACTACCACAGTACCTGCCACCACCTACCCCGGCTTCCCAAAGCCAGAGTGGACCTT
 TCCAGACCAGCAGCACTCCATATCTCTACTATGGTACTTCGTGACATCCTATCAGTTCCCAATGGTACC
 CGGGGAGACCGGTCTCCTTCCAGGATGGTCCCACCATGCACCACCCTCGAATGGCAGCAGCTATTA
 AATCCAAATTTGCCTAACAGAATGATGGTGTGACGCTGACGGAAGCCACAGCAGTTCCCAACTGTTT
 TGAATTCTAGCGGCAGAATGGATGAGTCTGTTTGGCGCCATAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3214_b03.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001146038

Insert Size: 1587 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001146038.2](#), [NP_001139510.1](#)

RefSeq Size: 5740 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 (1) represents use of a distal promoter. It encodes the longest isoform (1, also called MASNS). 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.