

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
GCCCGCATCGCC

ATGGCGTCAAACAGCCTCTTCAGCGCAGTGACACCGTGTGAGCAAGCTTCTTTGGGATCCGAGCACCA
GCCGGCGCTTCAGCCCCCTCCAGCAGCCTGCAGCCCGGCAAGATGAGCGACGTGAGCCCGGTGGTGGC
TGCGCAGCAGCAGCAACAGCAGCAGCAGCAGCAACAGCAGCAGCAACAACAGCAACAGCAACAACAG
CAGCAGCAGCAGCAGCAGCAGGAGGCGGCCGACGACAGCGCGGCAGCGCGCGGCAGCAGCGCGG
CGGCCGAGTGCCCCGATTGAGGCCGCGCACGACAACCGACCATGGTGGAGATCATCGGGACACCC
GGCCGAAGTGGTCCGACCGACAGTCCCAACTTCTGTGCTCCGTGCTGCCCTCGACTGGCGGTGCAAC
AAGACCTGCCCGTGGCCTTCAAGTTGTAGCCCTCGGAGAGGTACCATGGGACTGTGTTACCGTCA
TGGCCGGGAATGATGAGAACTACTCCGCCGAGCTCCGAAATGCCTCCGTGTTATGAAAAACCAATAGC
CAGGTTCAACGATCTGAGATTTGTGGGCCGAGCGGACGAGCAAGAGTTTCACTTGAACATAACAGTC
TTCACAAATCCTCCCAAGTGGCCACTTACCACAGAGCTATTAAGTGACAGTGGACGGTCCCCGGGAAC
CAAGAAGGCACAGACAGAAGCTTGATGACTCTAAACCTAGTTTGTCTCTGATCGCCTCAGTGATTTAGG
GCGCATTCTCATCCAGTATGAGAGTAGGTGTCCGCTCAGAACCCACGGCCCTCCTGAACCTGCA
CCAAGTCTTTTAAATCCACAAGGACAGAGTCAGATTACAGATCCAGGCAGGCACAGTCTCCCCACCGT
GGTCTATGACCAGTCTTACCCCTCTATCTGAGCCAGATGACATCCCATCCATCCACTCCACCAGCC
GCTGTCTTCCACACGGGGCACCGGGCTACCTGCCATCACTGACGTGCCAGGCGTATTTAGATGATGAC
ACTGCCACCTCTGACTTCTGCCTCTGGCCTTCTCTCTCAGTAAAGAGCCAGGCAGGTGCTTCAGAAC
TGGGCCCTTTTTAGACCCACAGGAGTTCCCAAGCATTTATCCCTCACTGAGAGCCGCTTCTCCAACCC
ACGAATGCACTACCCAGCCACCTTTACCTACACCCCGCCAGTCACGTACGGCATGTCCCTCGGCATGTCC
GCCACCACTCACTACCACACGTACCTGCCACCACCCTACCCCGGCTCTTCCAAAGCCAGAGTGGACCT
TCCAGACCAGCAGCACTCCATATCTCTACTATGGTACTTCGTGACATCCTATCAGTTCCTCAATGGTACC
CGGGGAGACCGGTCTCTTCCAGGATGGTCCCACCATGCACCACCACCTCGAATGGCAGCACGCTATTA
AATCCAAATTTGCCTAACAGAAATGATGGTGTGACGCTGACGGAAGCCACAGCAGTTCCTCAACTGTTT
TGAATTCTAGCGGCAGAATGGATGAGTCTGTTTGGCGCCATATGA

ACCGGTACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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

Restriction Sites: Sgfl-MluI

ACCN: NM 001146038

Insert Size: 1587 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_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.