

## Product datasheet for **SC106348**

### **RUNX1 (NM\_001001890) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RUNX1 (NM_001001890) Human Untagged Clone
Tag:	Tag Free
Symbol:	RUNX1
Synonyms:	AML1; AML1-EVI-1; AMLCR1; CBF2alpha; CBFA2; EVI-1; PEBP2aB; PEBP2alpha
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001001890 edited  
 TCATGCGTATCCCGTAGATGCCAGCACGAGCCGCGCTTACGCGCGCTTCCACCGCGC  
 TGAGCCCAGGCAAGATGAGCGAGGCGTTGCCGCTGGGCGCCCCGACGCCGGCGCTGCC  
 TGGCCGGCAAGCTGAGGAGCGGCGACCGCAGCATGGTGGAGGTGCTGGCCGACACCCGG  
 GCGAGCTGGTGCGCACCGACAGCCCCAATTCTCTGCTCCGTGCTGCCTACGCACTGGC  
 GCTGCAACAAGACCCTGCCCATCGCTTTCAAGGTGGTGGCCCTAGGGGATGTTCCAGATG  
 GCACTCTGGTCACTGTGATGGCTGGCAATGATGAAACTACTCGGCTGAGCTGAGAAATG  
 CTACCGCAGCCATGAAGAACCAGGTTGCAAGATTAATGACCTCAGGTTTGTGCGTCGAA  
 GTGGAAGAGGGAAGCTTCACTCTGACCATCACTGTCTTCAAAACCCACCGCAAGTCG  
 CCACCTACCACAGAGCCATCAAATCACAGTGGATGGGCCCCGAGAACCCTGAAGACATC  
 GGCAGAACTAGATGATCAGACCAAGCCCGGGAGCTTGTCTTTTCCGAGCGGCTCAGTG  
 AACTGGAGCAGCTGCGGCGCACAGCCATGAGGGTCAGCCACACCCAGCCCCACGC  
 CCAACCCTCGTGCTCCCTGAACCACTCACTGCCTTTAACCTCAGCCTCAGAGTCAGA  
 TGCAGGATACAAGGCAGATCAACCATCCCCACCGTGGTCTACGATCAGTCTACCAAT  
 ACCTGGGATCCATTGCCTCTCTCTGTGCACCCAGCAACGCCCATTTACCTGGACGTG  
 CCAGCGGCATGACAACCTCTCTGCAGAACTTTCCAGTCGACTCTCAACGGCACCCGACC  
 TGACAGCGTTACGCGACCCGCGCAGTTCCTCCGCTGCCTCCATCTCCGACCCCCGCA  
 TGCACTATCCAGGCGCTTACCTACTCCCCGACGCGGTACCTCGGGCATCGGCATCG  
 GCATGTGCGCCATGGGCTCGGCCACGCGTACCACACCTACCTGCCGCCGCCCTACCCCG  
 GCTCGTCGAAGCGCAGGAGGCCCGTTCCAAGCCAGCTCGCCCTCTACCACTGTACT  
 ACGGCGCTCGGCCGGCTCCTACCACTTCTCATGGTGGGCGGCGAGCGCTCGCCGCCG  
 GCATCTGCGGCCCTGCACCAACGCCTCACCGGCTCCGCGCTGCTCAACCCAGCCTCC  
 CGAACAGAGCGACGTGGTGGAGCCGAGGGCAGCCACAGCAACTCCCCACCAACATGG  
 CGCCTCCGCGCGCTGGAGGAGGCCGTGTGGAGGCCCTACTGAGCGCCAGGCTGGCC  
 CGGCTGGGCCCCGCGGCCGCCCTTCGCTCCGGGCGCGCGGCTCTGTTTCGCGAC  
 AAGCCCGCCGGATCCCGGCCCTGGGCCCGGCCACCGTCTGGGGCCGAGGGCGCCGA  
 CGGCCAGGATCTCGTGTAGGTAGGCCCGCGCAGCTCTGCGCCAGAAGCCACGCC  
 GCCGCCGTCTGCTGGGCCCGGCCCTCGCGGAGGTGTCCGAGGCGACGCACCTCGAGGG  
 TGTCCGCCGCCCGACCCAGGGGACGCGTGGAAAGCAAACAGGAAGATTCCCGGAG  
 GGAACCTGTGAATGCTTCTGATTAGCAATGCTGTGAATAAAAGAAAGATTTTATACCC  
 TTGAAAAAAAAAAAAAAAAA

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_001001890

**Insert Size:** 1700 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](mailto: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](#)

<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001001890.1.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001001890.1</u> , <u>NP_001001890.1</u>
<b>RefSeq Size:</b>	7288 bp
<b>RefSeq ORF:</b>	1362 bp
<b>Locus ID:</b>	861
<b>UniProt ID:</b>	<u>Q01196</u>
<b>Cytogenetics:</b>	21q22.12
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
<b>Protein Pathways:</b>	Acute myeloid leukemia, Chronic myeloid leukemia, Pathways in cancer
<b>Gene Summary:</b>	<p>Core binding factor (CBF) is a heterodimeric transcription factor that binds to the core element of many enhancers and promoters. The protein encoded by this gene represents the alpha subunit of CBF and is thought to be involved in the development of normal hematopoiesis. Chromosomal translocations involving this gene are well-documented and have been associated with several types of leukemia. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding region compared to variant 1. The resulting isoform (AML1b) is shorter and has a distinct N-terminus compared to isoform AML1c. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>