

## Product datasheet for **SC123977**

### **RUNX1 (NM\_001754) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RUNX1 (NM_001754) 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><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC123977 sequence for NM\_001754 edited (data generated by NextGen Sequencing)

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ATGGCTTCAGACAGCATATTTGAGTCATTTCTTCGTACCCACAGTGCTTCATGAGAGAA
TGCATACTTGAATGAATCCTTTAGAGACGTCCACGATGCCAGCAGGAGCCGCCGCTTC
ACGCCGCTTCCACCGCGCTGAGCCAGGCAAGATGAGCGAGGCGTTGCCGCTGGGCGCC
CCGGACGCCGGCGCTGCCCTGGCCGGCAAGCTGAGGAGCGGCGACCGCAGCATGGTGGAG
GTGCTGGCCGACACCCGGGCGAGCTGGTGCACCGACAGCCCAACTTCTCTGTCTCC
GTGCTGCCTACGCACTGGCGCTGCAACAAGACCCTGCCATCGCTTTCAAGGTGGTGGCC
CTAGGGGATGTTCCAGATGGCACTCTGGTCACTGTGATGGCTGGCAATGATGAAAACACTAC
TCGGCTGAGCTGAGAAATGCTACCGCAGCCATGAAGAACCAGGTTGCAAGATTTAATGAC
CTCAGGTTTGTGGTTCGAAGTGAAGAGGGAAAAGCTTCACTCTGACCATCACTGTCTTC
ACAAACCCACCGCAAGTCGCCACCTACCACAGAGCCATCAAAATCACAGTGGATGGGCCC
CGAGAACCTCGAAGACATCGGCAGAAACTAGATGATCAGACCAAGCCCGGAGCTTGTC
TTTTCCGAGCGGCTCAGTGAAGTGGAGCAGCTGCGGCGCACAGCCATGAGGGTCAGCCCA
CACCACCAGCCCCACGCCAACCTCGTGCCCTCCCTGAACCACTCCACTGCCTTTAAC
CCTCAGCCTCAGAGTCAGATGCAGGATACAAGGCAGATCCAACCATCCCCACCGTGGTCC
TACGATCAGTCCCTACCAATACCTGGGATCCATTGCCTCTCCTTCTGTGACCCAGCAACG
CCCATTTACCTGGAGCTGCCAGCGCATGACAACCTCTCTGCAGAACTTTCCAGTCGA
CTCTCAACGGCACCCGACCTGACAGCGTTTCCAGCGACCCGCGCCAGTTCCCGCGCTGCC
TCCATCTCCGACCCCGCATGCACTATCCAGGCGCCTTCACTACTCCCCGACGCCGGTC
ACCTCGGGCATCGGCATCGGCATGTGCGCCATGGGCTCGGCCACGCGCTACCACACCTAC
CTGCCCGCCGCTACCCCGGCTCGTCCGAAGCGCAGGGAGGCCGTTCCAAGCCAGCTCG
CCCTCTACCACTGTACTACGGCGCCTCGGCCGCTCTACCAGTTCTCCATGGTGGGCG
GGCGAGCGCTCGCCGCGCATCTGCGCCCTGCACCAACGCCTCCACCGGCTCCGCGG
CTGCTCAACCCAGCCTCCCGAACCCAGAGCGACGTGGTGGAGGCCGAGGCGAGCCACAGC
AACTCCCCACCAACATGGCGCCCTCCGCGCGCTGGAGGAGGCCGTGTGGAGGCCCTAC
TGA

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Clone variation with respect to NM\_001754.4

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001754

**Insert Size:**

2100 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](#)

**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).

<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>	<a href="#">NM_001754.3</a> , <a href="#">NP_001745.2</a>
<b>RefSeq Size:</b>	6190 bp
<b>RefSeq ORF:</b>	1443 bp
<b>Locus ID:</b>	861
<b>UniProt ID:</b>	<a href="#">Q01196</a>
<b>Cytogenetics:</b>	21q22.12
<b>Domains:</b>	Runt
<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 (1) represents the longest 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>