

## Product datasheet for **SC109033**

### **RUNX1T1 (NM\_175635) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RUNX1T1 (NM_175635) Human Untagged Clone
Tag:	Tag Free
Symbol:	RUNX1T1
Synonyms:	AML1-MTG8; AML1T1; CBFA2T1; CDR; ETO; MTG8; ZMYND2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_175635, the custom clone sequence may differ by one or more nucleotides

```

ATGCCAGACTCACCTGTGGATGTGAAGACGCAATCTAGGCTGACTCTCCAACAATGCCACCTCCCCAA
CTACTCAAGGAGCTCCAAGAACCAGTTCATTTACACCGACAACGTTAACTAATGGCAGCAGCCATTCTCC
TACAGCCTTGAATGGCGCCCCCTACCACCCAATGGCTTACAGCAATGGCCTTCTCTTCTCTCTCTCC
TCTCTGGCTAATCAACAGCTGCCCCAGCCTGTGGTGCCAGGCAACTCAGCAAGCTGAAAAGTTCTTA
CTACCCTGCAGCAGTTTGGCAATGACATTTACCCGAGATAGGAGAAAAGATTTCGCACCCTCGTTCTGGG
ACTAGTGAATCCACTTTGACAATTGAAGAATTTCAATCCAACTGCAAGAAGCTACTAATTCCCCTG
AGACCTTTTGTATCCCATTTTGAAGGCCAATTGCCCTGCTGCAGCGTGAGCTCCTCCACTGCGCAA
GACTGGCCAAACAGAACCCTGCCAGTACCTCGCCAGCATGAACAGCTGCTTCTGGATGCCAGCACCAC
CTCACCTGTTGACTCCTCAGAGCTGCTTCTCGATGTGAACGAAAACGGGAAGAGGCGAATCCAGACAGA
ACCAAAGAAAATGGCTTTGACAGAGAGCCTTTGCACTCAGAACATCCAAGCAAGCGACCATGCATTA
GCCAGGCCAGCGGTACAGTCCAATAACGGCTTATCCTACCAGCCAATGGCCTGCCTCACCTACCCC
ACCTCCACCTCAGCATTACCGTTTGGATGATATGGCCATTGCCACCACCTACAGGGACTCCTATCGACAC
CCCAGCCACAGGGACCTCAGGGACAGAAAACAGACCTATGGGGTTCATGGCACACGTCAAGAAGAAATGA
TTGATCACAGACTAACAGACAGAGAATGGGCAGAGAGTGAAAACATCTTGACCATCTGTAAACTGCAT
AATGGACATGGTAGAAAAACAAGGCGATCTCTACCCTACTAAGGCGGTGTCAAGAAGCAGACCCGGAA
GAATTGAATTACTGGATCCGGCGGTACAGTGACGCCGAGGACTTAAAAAAGGTGGCGGCAGTAGCAGCA
GCCACTTAGGCAGCAGAGTCCCGTCAACCAGACCCAGTTGCACTAGACGCGCATCGGGAATTCCTTCA
CAGGCCCTGCGTCTGGATACGTGCCAGAGGAGATCTGGAAGAAAGCTGAGGAGGCCGTCAATGAGGTGAAG
GCCAGGCCGATGACGGAGCTGCAGAAGGCCGTGTCTGAGGCCGAGCGGAAAGCCACGACATGATCACAA
CAGAGAGGGCCAAGATGGAGCGCACGGTCCGCCAGGCCAAACGGCAGGCGCGGAGGACGCACTGGCAGT
TATCAATCAGCAGGAGGATTCAAGCGAGAGTTGCTGGAATTGTGGCCGTAAGCGAGTGAAAACCTGCAGT
GGCTGTAACACAGCCGATACTGTGGCTCATTTTCCAGCACAAAGACTGGGAGAAGCACCATCACATCT
GTGGACAGACCCTGCAGGCCAGCAGCAGGAGACACACCTGCAGTCAGCTCCTCTGTACGCCCCAACAG
CGGGGCTGGGAGCCCGATGGACACACCACCAGCAGCCACTCCGAGGTCAACCACCCCGGAAACCCCTTCC
ACCATAGAGACAACCCCTCGTAG
    
```

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_175635 unedited

```

TGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGAGAAGTGAAGATGTAACA
TGTTATCTGTCTCCTCTTAGCTGGCGGAGAGAAATTTACATTTAAAGATTAGCAGAGTG
AGAAAGAGAAAATCGCCTTTTGTGTGTGGGTGAGGAGGAGGCATCTACCCCTGGCCTT
GACGCTATCTCCATCACCTCTGCTATCCAGACAGGACTACCGAGATCGTACTGAGAAG
CACTCCACAATGCCAGACTCACCTGTGGATGTGAAGACGCAATCTAGGCTGACTCCTCCA
ACAATGCCACCTCCCCAACTACTCAAGGAGCTCCAAGAACCAGTTCATTTACACCGACA
ACGTTAACTAATGGCACGAGCCATTCTCTACAGCCTTGAATGGCGCCCCCTCACCAACC
AATGGCTTCAGCAATGGGCCTTCTCTTCTCCTCCTCTCTGCTAATCAACAGCTG
CCCCAGCCTGTGGTGCCAGGCAACTCAGCAAGCTGAAAAGTTCTTACTACCTGCAG
CAGTTTGGCAATGACATTTACCCGAGATAGGAGAAAAGATTTCGCACCCTCGTTCTGGGA
CTAGTGAATCCACTTTGACAATTGAAGAATTTCAATCCAACTGCAAGAAGCTACTAAC
TTCCCACTGAGACCTTNTGTCATCCATTTTGAAGGCCAATTTGCCCTGCTGCAGCGT
GAGCTCCTCCACTGCGCAAGACTGGCCAACAGAACCTGCCAGTACCTCGCCAGCAT
GAACAGCTGCTTCTGGATGCCAGCACCCTCACCTGTTGACTNCTCAGAGCTGCTTCTC
GATGTGAACGAAAACGGGAAGAGGCGAATCCAGACAGACCC
    
```

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_175635

**Insert Size:** 3000 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<a href="#">NM_175635.1</a> , <a href="#">NP_783553.1</a>
<b>RefSeq Size:</b>	3233 bp
<b>RefSeq ORF:</b>	1704 bp
<b>Locus ID:</b>	862
<b>UniProt ID:</b>	<a href="#">Q06455</a>
<b>Cytogenetics:</b>	8q21.3
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Acute myeloid leukemia, Pathways in cancer
<b>Gene Summary:</b>	<p>This gene encodes a member of the myeloid translocation gene family which interact with DNA-bound transcription factors and recruit a range of corepressors to facilitate transcriptional repression. The t(8;21)(q22;q22) translocation is one of the most frequent karyotypic abnormalities in acute myeloid leukemia. The translocation produces a chimeric gene made up of the 5'-region of the runt-related transcription factor 1 gene fused to the 3'-region of this gene. The chimeric protein is thought to associate with the nuclear corepressor/histone deacetylase complex to block hematopoietic differentiation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2010]</p> <p>Transcript Variant: This variant (3) utilizes an alternate exon in the 5' UTR and coding region compared to variant 1, resulting in translation initiation from a downstream ATG. The resulting protein (isoform C, also known as MTG8c) has a shorter N-terminus compared to isoform A. Variants 3 and 4 both encode isoform C. 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.</p>