

## Product datasheet for **RC231362**

### **RUNX1T1 (NM\_001198679) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RUNX1T1 (NM_001198679) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RUNX1T1
Synonyms:	AML1-MTG8; AML1T1; CBFA2T1; CDR; ETO; MTG8; ZMYND2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC231362 representing NM\_001198679  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGCCATCCTGACAAGGCTTTTACTTCTGATAAGCTCCAATGTGTGTTAATGAATACAAAGCCGCGG  
 TCTGGGTGCCGCTCGGCCGCGCCGCTCTCCCGCTCCTTTGCCAGAAGCTGGCGGAGAGAATTTACA  
 TTTAAAGATTAGCAGAGTGAGAAAGAGAAATCTGCCTTTTGTGTGGGTGAGGAGGAGCATCTACC  
 CCTGGCCTTGACGCTATCTCCATCACCTCTGCTATCCAGACAGGACTCACCGAGATCGTACTGAGAAGC  
 ACTCCACAATGCCAGACTCACCTGTGGATGTGAAGACGCAATCTAGGCTGACTCTCCAACAATGCCACC  
 TCCCCAACTACTCAAGGAGCTCCAAGAACCAGTTCATTTACACCGACAACGTTAACTAATGGCAGCAGC  
 CATTCTCTACAGCCTTGAATGGCGCCCCCTACCACCAATGGCTTCAGCAATGGGCCCTCCTCTTCTT  
 CCTCTCTCTCTGGCTAATCAACAGCTGCCCCAGCCTGTGGTGCCAGGCAACTCAGCAAGCTGAAAAG  
 GTTCTTACTACCTGCAGCAGTTTGGCAATGACATTTACCCGAGATAGGAGAAAGAGTTCGCACCCCTC  
 GTTCTGGGACTAGTGAATCCACTTTGACAATTGAAGAATTTATTCCAAACTGCAAGAAGCTACTAACT  
 TCCCACTGAGACCTTTTGTATCCCATTTTGAAGGCCAACTTGCCCTGCTGCAGCGTGAGCTCCTCCA  
 CTGCGCAAGACTGGCCAAACAGAACCTGCCAGTACCTCGCCAGCATGAACAGCTGCTTCTGGATGCC  
 AGCACCACCTCACCTGTTGACTCCTCAGAGCTGCTTCTCGATGTGAACGAAAACGGGAAGAGGGCAACTC  
 CAGACAGAACCAAGAAAATGGCTTTGACAGAGAGCCTTTCAGCTCAGAACATCCAAGCAAGCGACCATG  
 CACTATTAGCCCAGGCCAGCGGTACAGTCCAAATAACGGCTTATCCTACCAGCCCAATGGCTGCCTCAC  
 CCTACCCACCTCCACCTCAGCATTACCGTTTGGATGATATGGCCATTGCCACCACTACAGGGACTCCT  
 ATCGACACCCAGCCACAGGGACCTCAGGGACAGAAACAGACCTATGGGGTTGCATGGCACACGTCAGA  
 AGAAATGATTGATCACAGACTAACAGACAGAGAATGGGCAGAAGAGTGGAAACATCTTGACCATCTGTTA  
 AACTGCATAATGGACATGGTAGAAAAACAAGGCGATCTCTACCGTACTAAGGCGGTGTCAAGAAGCAG  
 ACCGGAAGAATTGAATTACTGGATCCGGCGGTACAGTGACGCCGAGGACTTAAAAAAGGTGGCGGCAG  
 TAGCAGCAGCCACTTAGGCAGCAGAGTCCCGTCAACCCAGACCCAGTTGCACTAGACGCGCATCGGGAA  
 TTCCTTACAGGCCTGCGTCTGGATACGTGCCAGAGGAGATCTGGAAGAAAGCTGAGGAGGCCGTCAATG  
 AGGTGAAGCGCCAGGCGATGACGGAGCTGCAGAAGGCCGTGTCTGAGCGGAGCGGAAAGCCACGACAT  
 GATCACAACAGAGAGGGCAAGATGGAGCGCACGGTCGCCGAGGCCAAACGGCAGGCGGCGGAGGACGCA  
 CTGGCAGTTATCAATCAGCAGGAGGATTCAAGCGAGAGTTGCTGGAATTGTGGCCGTAAGCGAGTGAAA  
 CCTGCAGTGGCTGTAACACAGCCCGATACTGTGGCTCATTTTGCCAGCACAAAGACTGGGAGAAGCACCA  
 TCACATCTGTGGACAGACCTGCAGGCCAGCAGGAGACACACCTGCAGTCAGCTCCTCTGTACAG  
 CCCAACAGCGGGGCTGGGAGCCCGATGGACACACCACCAGCAGCCACTCCGAGGTCAACCACCCCGGAA  
 CCCCTTCCACCATAGAGACAACCCCTCGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**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\\_001198679.1](#), [NP\\_001185608.1](#)

**RefSeq ORF:** 1992 bp

**Locus ID:** 862

**UniProt ID:** [Q06455](#)

**Cytogenetics:** 8q21.3

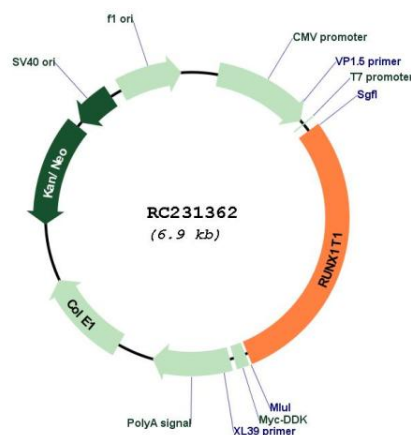
**Protein Families:** Transcription Factors

**Protein Pathways:** Acute myeloid leukemia, Pathways in cancer

**MW:** 74.6 kDa

**Gene Summary:** 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]

### Product images:



Circular map for RC231362