

Product datasheet for **RC231324**

RUNX1T1 (NM_001198633) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUNX1T1 (NM_001198633) 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)



[View online »](#)

ORF Nucleotide
Sequence:

>RC231324 representing NM_001198633
Red=Cloning site Blue=ORF Green=Tags(s)

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TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGGATCGCC
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ATGGTGGGACTCTCCGGCCTGTGCAGTATCGTACTGAGAAGCACTCCACAATGCCAGACTCACCTGTGG  
ATGTGAAGACGCAATCTAGGCTGACTCCTCAACAATGCCACCTCCCCAACTACTCAAGGAGCTCCAAG  
AACCGTTCATTTACACCGACAACGTTAACTAATGGCAGCAGCCATTCTCTACAGCCTTGAATGGCGCC  
CCCTACCACCCAATGGCTTCAGCAATGGGCCTTCTCTCTCTCTCTCTCTGTGCTAATCAACAGC  
TGCCCCAGCCTGTGGTCCAGGCAACTCAGCAAGCTGAAAAGTTTCTTACTACCCTGCAGCAGTTTG  
CAATGACATTTACCCGAGATAGGAGAAAAGAGTTCGCACCCTCGTTCTGGGACTAGTGAACCTCACTTTG  
ACAATTGAAGAATTTCTTCAAACCTGCAAGAAGCTACTAACTCCCCTGAGACCTTTTGTTCATCCCAT  
TTTTGAAGGCAAATGCCCCTGTGCAGCGTGAGCTCCTCCACTGCGCAAGACTGGCCAAAACAAGCC  
TGCCCACTACCTGCCCCAGCATGAACAGCTGCTTCTGGATGCCAGCACCACTCACTGTTGACTCCTCA  
GAGCTGCTTCTCGATGTGAACGAAAACGGGAAGAGGGCAACTCCAGACAGAACCAAGAAAATGGCTTTG  
ACAGAGAGCCTTTGCACTCAGAACATCCAAGCAAGCGACCATGCACTATAGCCAGGCCAGCGGTACAG  
TCCAAATAACGGCTTATCCTACCAGCCCAATGGCCTGCCTCACCCTACCCACCTCCACCTCAGCATTAC  
CGTTTGGATGATATGGCCATTGCCACCCTACAGGGACTCCTATCGACACCCAGCCACAGGGACCTCA  
GGGACAGAAACAGACCTATGGGTTGCATGGCACACGTCAAGAAGAAATGATTGATCACAGACTAACAGA  
CAGAGAATGGGCAGAAAGAGTGAAAACATCTTGACCATCTGTTAACTGCATAATGGACATGGTAGAAAA  
ACAAGCGCATCTCACCGTACTAAGGCGGTGTCAAGAAGCAGACCAGGGAAGAAATGAACTACTGGATCC  
GGCGGTACAGTGACCGCAGGACTTAAAAAAGGTGGCGCGAGTGCAGCAGCAGCACTTAGCAGCAGAG  
TCCCGTCAACCCAGACCCAGTTGCACTAGACCGCATCGGAATTCTTACAGGCCTGCGTCTGGATAC  
GTGCCAGAGGAGATCTGGAAGAAAAGCTGAGGAGCGCTCAATGAGGTGAAGCGCCAGGCGATGACGGAGC  
TGCAAGAGCCGTGTCTGAGCGGAGCGGAAAAGGCCACGACATGATCACAACAGAGAGGGCCAAGATGGA  
GCGCACGGTTCGCGAGGCCAAACGGCAGGCGGGAGGAGCAGTGGCAGTTATCAATCAGCAGGAGGAT  
TCAAGCGAGAGTTGCTGGAATTGTGGCCGTAAGCGAGTGAAACCTGCAGTGGCTGTAACACAGCCCGAT  
ACTGTGGCTCATTTGCCAGCACAAGACTGGGAGAAGCACCATCACATCTGTGGACAGACCCTGCAGGC  
CCAGCAGCAGGGAGACACACCTGCAGTCAGCTCCTCTGTACGCCAACAGCGGGCTGGGAGCCCGATG  
GACACACCACCAGCAGCCACTCCGAGGTCAACCAACCGGGAACCCCTTCCACCATAGAGACAACCCCTC  
GC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA
```

Protein Sequence:

>RC231324 representing NM_001198633
Red=Cloning site Green=Tags(s)

```
MVGLSGPVQYRTEKHSTMPDSDPVDVKTQSRLTPPTMPPPPTTQGAPRTSSFPTTLTNGTSHSPTALNGA  
PSPPNGFSNGPSSSSSSSLANQQLPPACGARQLSKLKRFLTTLQQFNDISPEIGERVRTLVLGLVNSTL  
TIEEFHSLQAEATNFPLRPFVIPFLKANLPLLQRELLHCARLAKQNPQYLAQHEQLLLDASTTSPVDSS  
ELLLDVENGGKRRTPDRTKENGFDREPLHSEHPSKRPTISPGQRYSPNGLSYQPNGLPHPTPPPPQHY  
RLDDMAIAHHRYSYRHPSHRDLRDRNRPMLHGTRQEEMIDHRLTDREWAEWKHLDHLLNCLMIMVVEK  
TRRSLTVLRRQEAADREELNYWIRRYSDAEDLKKGGSSSSSHRQSPVNPDPVALDAHREFLRHPASGY  
VPPEIWKKAEEAVNEVQRQAMTELQKAVSEAERKAHDMITTERAKMERTVAEAKRQAEDALAVINQQED  
SSESCWNCGRKASETCGCNTARYCGSFQHKDWEKHHHICGQTLQAQQGDTPAVSSSVTPNSGAGSPM  
DTPPAATPRSTTPGTPSTIETPR
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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Chromatograms:

https://cdn.origene.com/chromatograms/mk8068_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001198633

ORF Size: 1752 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:
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_001198633.1](#), [NP_001185562.1](#)

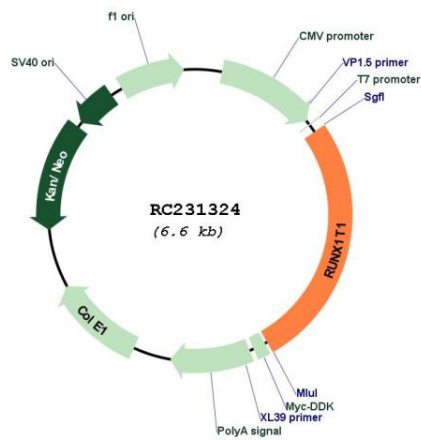
RefSeq ORF: 1755 bp

Locus ID: 862

UniProt ID: [Q06455](#)

Cytogenetics:	8q21.3
Protein Families:	Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Pathways in cancer
MW:	65.5 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 RC231324