

Product datasheet for **RC231339**

RUNX1T1 (NM_001198634) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUNX1T1 (NM_001198634) 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:

>RC231339 representing NM_001198634
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGCCATCCTGACAAGGCTTTTACTTCTGATAAGCTCCAATGTGTGTTAATGAATACAAAGCCGCGG
 TCTGGGTGCCGCTCGGCCGCGCCGCTCTCCCGCTCCTTTGCCAGAAGATCGTACTGAGAAGCACTC
 CACAATGCCAGACTCACCTGTGGATGTGAAGACGCAATCTAGGCTGACTCCTCCAACAATGCCACCTCCC
 CCAACTACTCAAGGAGCTCCAAGAACCAGTTTCATTTACACCGACAACGTTAACTAATGGCAGGACCATT
 CTCCTACAGCCTTGAATGGCGCCCCCTACCACCCAATGGCTTCAGCAATGGGCCCTTCTCTTCTCCTC
 CTCCTCTCTGGCTAATCAACAGCTGCCCCAGCCTGTGGTGCCAGGCAACTCAGCAAGCTGAAAAGGTTT
 CTTACTACCTGCAGCAGTTTGGCAATGACATTTACCCGAGATAGGAGAAAGAGTTCGCACCCTCGTTC
 TGGGACTAGTGAAGTCCACTTTGACAATTGAAGAATTTTCATTCAAACTGCAAGAAGCTACTAATTCCC
 ACTGAGACCTTTTGTATCCCATTTTTGAAGGCCAACTTGCCCTGCTGCAGCGTGAAGTCTCCACTGC
 GCAAGACTGGCCAAACAGAACCTTGCCAGTACCTCGCCAGCATGAACAGCTGCTTCTGGATGCCAGCA
 CCACCTCACCTGTTGACTCCTCAGAGCTGCTTCTCGATGTGAACGAAAACGGGAAGAGGGCAACTCCAGA
 CAGAACCAAAAGAAAATGGCTTTGACAGAGAGCCTTTGCACTCAGAACATCCAAGCAAGCGACCATGCACT
 ATTAGCCAGGCCAGCGGTACAGTCCAAATAACGGCTTATCCTACCAGCCCAATGGCCTGCCTCACCCCTA
 CCCACCTCCACCTCAGCATTACCGTTTGGATGATATGGCCATTGCCACCACTACAGGGACTCCTATCG
 ACACCCAGCCACAGGGACCTCAGGGACAGAAACAGACCTATGGGGTTCATGGCACACGTCAAGAAGAA
 ATGATTGATCACAGACTAACAGACAGAGAATGGGCAGAAGAGTGGAAACATCTTGACCATCTGTTAACT
 GCATAATGGACATGGTAGAAAAACAAGGCGATCTCTACCGTACTAAGGCGGTGTCGAAGAAGCAGACCG
 GGAAGAATTGAATTACTGGATCCGGCGGTACAGTGACGCCGAGGACTTAAAAAAGGTGGCGGCAGTAGC
 AGCAGCCACTCTAGGCAGCAGAGTCCCGTCAACCCAGACCCAGTTGCACTAGACGCGCATCGGGAATTCC
 TTCACAGGCCCTGCGTCTGGATACGTGCCAGAGGAGATCTGGAAGAAAGCTGAGGAGGCCGTCAATGAGGT
 GAAGCGCCAGGCGATGACGGAGCTGCAGAAGGCCGTGTCTGAGGCGGAGCGGAAAGCCACGACATGATC
 ACAACAGAGAGGGCCAAGATGGAGCGCACGGTCCGCCAGGCCAAACGGCAGGCGGCGGAGGACGCACTGG
 CAGTTATCAATCAGCAGGAGGATCAAGCGAGAGTTGCTGGAATTGTGGCCGTAAGCGAGTGAAACCTG
 CAGTGGCTGTAAACAGCCCGATACTGTGGCTCATTTTCCAGCACAAGACTGGGAGAAGCACCATCAC
 ATCTGTGGACAGACCCTGCAGGCCAGCAGCAGGGAGACACCTGCAGTCAGCTCCTCTGTACGCCCA
 ACAGCGGGGCTGGAGCCCGATGGACACACCACCAGCAGCCACTCCGAGGTCAACCACCCCGGGAACCC
 TTCCACCATAGAGACAACCCCTCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231339 representing NM_001198634
 Red=Cloning site Green=Tags(s)

MCHPDKAFTSDKLQCVFNEYKAAVWVPPRPRPLSRAPLPEDRTEKHSTMPDSPVDVKTSRSLTPPTMPPP
 PTTQGAPRTSSFPTTLTNGTSHSPTALNGAPSPNGFSNGPSSSSSSSLANQQLPPACGARQLSKLKR
 LTTLQQFNDISPEIGERVRTLVLGLVNSTLTIEEFHSLKQEATNFPLRPFVIPFLKANLPLLQRELLHC
 ARLAKQNPAYLAQHEQLLLDASTTSPVDSSELLLDVNENGRRTTPDRTKENGFDRPLHSEHPSKRPCT
 ISPGQRYSPNGLSYQPNGLPHPTPPPQHYRLDDMAIAHHYRDSYRHPSHRDLRDRNRPMGLHGTRQEE
 MIDHRLTDREWAEWKLHDHLLNCIMDMVEKTRRSLTVLRRQCQEADREELNYWIRRYSDAEDLKKGGSS
 SSSSRQQSPVNDPVALDAHREFLHRPASGYVPEEIWKKAEEAVNEVKRQAMTELQKAVSEAERKAHDMI
 TTERAKMERTVAEAKRQAEDALAVINQQEDSSESCWNCGRKASETCSGCNTARYCGSFCQHKDWEKHHH
 ICGQTLQAQQGDTPAVSSSVTPNSGAGSPMDTPPAATPRSTTPGTPSTIETTPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8069_h02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001198634

ORF Size: 1845 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_001198634.2](#)

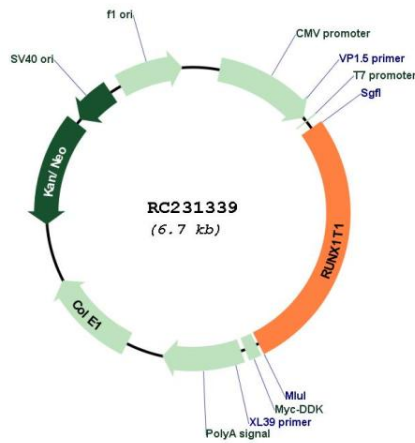
RefSeq ORF: 1848 bp

Locus ID: 862

UniProt ID: [Q06455](#)
Cytogenetics: 8q21.3
Protein Families: Transcription Factors
Protein Pathways: Acute myeloid leukemia, Pathways in cancer
MW: 69.2 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 RC231339