

Product datasheet for **RC218564**

RUNX1T1 (NM_004349) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUNX1T1 (NM_004349) 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:

>RC218564 representing NM_004349
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCTGATCGTACTGAGAAGCACTCCACAATGCCAGACTCACCTGTGGATGTGAAGACGCAATCTAGGC
 TGA CTCTCCAACAATGCCACCTCCCCAACTACTCAAGGAGCTCCAAGAACCAGTTCATTTACACCGAC
 AACGTTAACTAATGGCACGAGCCATTCTCTACAGCCTTGAATGGCGCCCCCTACCACCCAATGGCTTC
 AGCAATGGGCCTTCTCTTCTCTCTCTCTCTGGCTAATCAACAGCTGCCCCAGCCTGTGGTGCCA
 GGCAACTCAGCAAGCTGAAAAGTTCTTACTACCCTGCAGCAGTTTGGCAATGACATTTACCCGAGAT
 AGGAGAAAAGATTGACCCCTCGTTCTGGGACTAGTGAACCTCACTTTGACAATTGAAGAATTTCAATCC
 AAAGTGAAGAAGCTACTAACTCCCACTGAGACCTTTTGTATCCCATTTTGAAGGCCAACTGCCCC
 TGCTGCAGCGTGAGCTCCTCCACTGCGCAAGACTGGCCAAACAGAACCCGCCCAGTACCTCGCCAGCA
 TGAACAGCTGCTTCTGGATGCCAGCACCTCACCTGTTGACTCCTCAGAGCTGCTTCTCGATGTGAAC
 GAAAACGGGAAGAGGCGAACTCCAGACAGAACCAAGAAAATGGCTTTGACAGAGAGCCTTTGCACTCAG
 AACATCCAAGCAAGCGACCATGCACTATTAGCCAGGCCAGCGGTACAGTCCAAATAACGGCTTATCCTA
 CCAGCCCAATGGCCTGCCTCACCTACCCACCTCCACCTCAGCATTACCGTTTGGATGATATGGCCATT
 GCCCACCCTACAGGGACTCCTATCGACACCCAGCCACAGGGACCTCAGGGACAGAAACAGACCTATGG
 GGTTGCATGGCACACGTCAAGAAGAAATGATTGATCACAGACTAACAGACAGAGAATGGGAGAAGAGTG
 GAAACATCTTGACCATCTGTTAACTGCATAATGGACATGGTAGAAAAACAAGGCGATCTCTACCCTA
 CTAAGGCGGTGTCAAGAAGCAGACCGGGAAGAAATGAATTACTGGATCCGGCGGTACAGTGACGCCGAGG
 ACTTAAAAAAGGTGGCGCAGTAGCAGCAGCCACTCTAGGCAGCAGAGTCCCCTCAACCCAGACCCAGT
 TGCCTAGACGCGCATCGGGAATTCCTTACAGGCCTGCGTCTGGATACGTGCCAGAGGAGATCTGGAAG
 AAAGCTGAGGAGGCCGTAATGAGGTGAAGCGCCAGGCGATGACGAGCTGCAGAAGGCCGTGTCTGAGG
 CGGAGCGGAAAGCCACGACATGATCACACAGAGAGGGCCAAGATGGAGCGCACGGTCGCCGAGGCCAA
 ACGGCAGGCGGCGGAGGACGCACTGGCAGTTATCAATCAGCAGGAGGATTCAAGCGAGAGTTGCTGGAAT
 TGTGGCCGTAAGCGAGTGAAACCTGCAGTGGCTGTAAACAGCCCGATACTGTGGCTCATTTTGCAGC
 ACAAGACTGGGAGAAGCACCATCACATCTGTGGACAGACCTGCAGGCCAGCAGCAGGGAGACACACC
 TGCAGTCAGCTCCTGTGACGCCAACAGCGGGCTGGGAGCCCGATGGACACACCACCAGCAGCCACT
 CCGAGGTCAACCACCCCGGAACCCCTTCCACCATAGAGACAACCCCTCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218564 representing NM_004349
 Red=Cloning site Green=Tags(s)

MPDRTEKHSTMPDSPVDVKTQSRLTPPTMPPPTTQGAPRTSSFPTTLTNGTSHSPTALNGAPSPPNGF
 SNGPSSSSSSSLANQQLPPACGARQLSKLKRFLTLQQFNDISPEIGERVRTLVLGLVNSTLTIEEFHS
 KLQEATNFPLRPFVIFPLKANLPLLQRELLHCARLAKQNPAYLAQHEQLLLDASTTSPVDSSELLLDVN
 ENGRRTPDRTKENGFDREPLHSEHPSKRPCTISPGQRYSPNGLSYQPNGLPHPTPPPPQHYRLDDMAI
 AHHYRDSYRHPSHRDLRDRNRMGLHGTRQEEMIDHRLTDREWAEWKHL DHLNLCIMDMVEKTRRSLTV
 LRRQEAADREELNYWIRRYSDAEDLKKGGGSSSSSRQQSPVNPDPVALDAHREFLHRPASGYVPEEIKW
 KAEAEAVNEVKRQAMTELQKAVSEAERKAHDMITTERAKMERTVAEAKRQAEDALAVINQQEDSSSESWN
 CGRKASETCSGCNTARYCGSFCQHKDWEKHHHICGQTLQAQQQGDTPAVSSSVTPNSGAGSPMDTPPAAT
 PRSTTPGTPSTIETTPR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_004349

ORF Size: 1731 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 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](#)

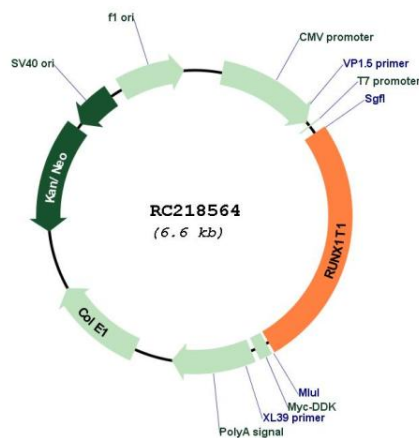
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004349.4
RefSeq Size:	7420 bp
RefSeq ORF:	1734 bp
Locus ID:	862
UniProt ID:	Q06455
Cytogenetics:	8q21.3
Domains:	zf-MYND, TAFH
Protein Families:	Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Pathways in cancer
MW:	64.4 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 RC218564