

Product datasheet for **RC234543**

RUNX1T1 (NM_001198631) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUNX1T1 (NM_001198631) 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:

>RC234543 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

RCATGATATCTGTCAAAGAAACACTTGGAGAGCACTGAGTTTAGTAATAGGTGACTGCCGAAAAAAGG
 GAACCTTTGAATATTGTCAAGATCGTACTGAGAAGCACTCCACAATGCCAGACTCACCTGTGGATGTGAAG
 ACGCAATCTAGGCTGACTCCTCCAACAATGCCACCTCCCCCACTACTCAAGGAGCTCCAAGAACCAAGTT
 CATTACACCGACAACGTTAACTAATGGCAGGACCACTTCTCCTACAGCCTTGAATGGCGCCCCCTCACC
 ACCCAATGGCTTCAAGCAATGGGCTTCTCTTCTCCTCCTCCTCTGCTAATCAACAGCTGCCCCCA
 GCCTGTGGTGCCAGGCACTCAGCAAGCTGAAAAGTTTCTTACTACCTGCAGCAGTGGCAATGACA
 TTTACCCGAGATAGGAGAAAGATTGCGACCCCTCGTTCTGGGACTAGTGAACCTCACTTTGACAATTGA
 AGAATTTCACTCAAACGCAAGAAGCTACTAATTCCCACTGAGACCTTTTGCATCCCATTTTGAAG
 GCCAATTGCCCTGCTGCAGCGTGGCTCCTCCACTGCGCAAGACTGGCCAAACAGAACCCTGCCAGT
 ACCTCGCCAGCATGAACAGCTGCTTCTGGATGCCAGCACCACCTCACCTGTTGACTCCTCAGAGCTGCT
 TCTCGATGTGAACGAAAACGGGAAGAGGCGAATCCAGACAGAACCAAAGAAAATGGCTTTGACAGAGAG
 CCTTTGCACTCAGAACATCCAAGCAAGCGACCATGCACTATTAGCCCAGGCCAGCGGTACAGTCAAATA
 ACGGCTTATCCTACCAGCCCAATGGGCTGCCTCACCCTACCCCACCTCCACCTCAGCATTACCGTTTGG
 TGATATGGCCATTGCCACCACACTACAGGACTCCTATCGACACCCAGCCACAGGGACCTCAGGGACAGA
 AACAGACCTATGGGGTTGCATGGCACACGTCAAGAAGAAATGATTGATCAGACTAACAGACAGAGAAT
 GGGCAGAAGAGTGGAAACATCTTGACCATCTGTTAACTGCATAATGGACATGGTAGAAAAAACAGGCG
 ATCTCTCACCGTACTAAGGCGGTGTCAGAAGCAGACCGGGAAGAATTGAATTACTGGATCCGGCGGTAC
 AGTGACGCCGAGGACTTAAAAAAGGTGGCGAGTAGCAGCAGCAGCACTTAGGCCAGCAGAGTCCCGTCA
 ACCCAGACCCAGTTGCACTAGACGCGCATCGGAATTCCTTACAGGCCTGCGTCTGGATACGTGCCAGA
 GGAGATCTGGAAGAAAGCTGAGGAGGCCGTCATGAGGTGAAGCGCCAGGCGATGACGGAGCTGCAGAAG
 GCCGTGTCTGAGGCGGAGCGAAAGCCACGACATGATCACAACAGAGAGGGCCAAGATGGAGCGCACGG
 TCGCCGAGGCCAAACGGCAGGCGGCGGAGGACGCACTGGCAGTTATCAATCAGCAGGAGGATTCAAGCGA
 GAGTTGCTGGAATTGTGGCCGTAAGCGAGTGAACCTGCAGTGGCTGTAACACAGCCCGATACTGTGGC
 TCATTTTCCAGCACAAGACTGGGAGAAGCACCATCACATCTGTGGACAGACCTGCAGGCCAGCAGC
 AGGGAGACACACCTGCAGTCACTCCTCTGTACGCCCCAACAGCGGGGCTGGGAGCCGATGGACACACC
 ACCAGCAGCCACTCCGAGGTCAACACCCCGGGAACCCCTTCACCATAGAGACAACCCCTCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234543 protein sequence
 Red=Cloning site Green=Tags(s)

X*YLSKETLGEH*V***VTAGKKGLNIVKIVLRSTPQCQTHLWM*RRNLG*LLQQCHLPQLLKELQEPV
 HLHRQR*LMARAILLQP*MAPPHPMASAMGLPLLPPPLWLINSCPQPVVPGNSAS*KGSLLPCSSLAMT
 FHPR*EKEFAPSFWD**TPL*QLKNFIPNCKLLTSH*DLLSSH*F*RPCTCPCSVSSSTAQDWPNRTPS
 TSPSMNSCFWMPAPPHLLTPQSCFSM*TKTGRGELQTEPKKMALTESLCTQNIQASDHALLAQASGTVQI
 TAYPTSPMACTLPHLHLSITVWMIWPLPTTTGTPIDTPATGTSGETDLWGCMAHVKKK*LITD*QTEN
 GQKSGNILTIC*TA*WTW*KKQGDLSFY*GGVKKQTGKN*ITGSGGTVTPRT*KKVAVAATLGSRVPS
 TQTQLH*TRIGNSFTGLRLDTCQRRSQRKLRPSMR*SARR*RSCRRPCLRRSGKPTT*SQQRGPRWSAR
 SPRPNRRRRRTHWQLSISRRIQARVAGIVAVKRVKPAVAVTQPDTVAHFASKTGRSTITSVDRPCRPS
 RETHLQSAPLSRPTAGLGARWTHHQPLRGQPPREPLPP*RQPL

TRTRPLEQK**L**ISEEDLAANDILDYKDDDDK**V**

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001198631

ORF Size: 1812 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_001198631.1](#), [NP_001185560.1](#)

RefSeq Size: 7483 bp

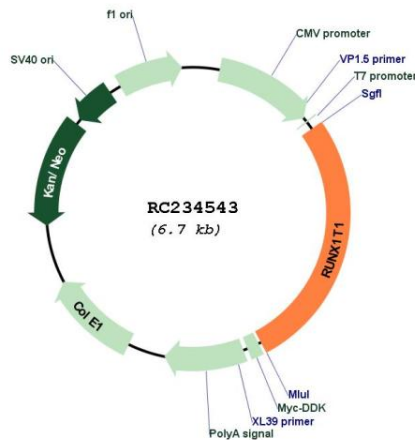
RefSeq ORF: 1815 bp

Locus ID: 862

UniProt ID: [Q06455](#)

Cytogenetics:	8q21.3
Protein Families:	Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Pathways in cancer
MW:	67.6 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 RC234543