

Product datasheet for **SC117449**

RUNX1T1 (NM_004349) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUNX1T1 (NM_004349) Human Untagged Clone
Tag:	Tag Free
Symbol:	RUNX1T1
Synonyms:	AML1-MTG8; AML1T1; CBFA2T1; CDR; ETO; MTG8; ZMYND2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004349 unedited NNNNNNNNNNNNTTTTTGACTTTGGACCGCGNCCGCATNCTAGGATCGAGTTTTTTTT TTTTTTTTTTCTTATTGTATATAAAGAACTTGTGACTTTTAATATTAGCATTTTTGCTT TCAACAGCAATTAGCAATCTCTTGGTTTGTCTGTTTGGTAAAGCATCGGTTAATGAGGTCA TCTAGTTTAAAATCCCAGCTACTTGAATAAACAGGGAGGAGGTCAAATCTATCATTTC TGGTATATTCTCTGCTCTCTTTTCAGTTCTCTAAAGAAAAGATATCTTTGTTATCCCACA TAAGTCATTACGACCCCGTACTGGCCCTTGGTGTACTACCACCTCAAGATCACGTAG GTCCTTTTTGCTTGAGTCTGGAATTGGTAATTCTTCTTTTTACCACCACCCCAAAAAC AACTTTAAACATCTAAGGATGAGGAATGGTTTCCCGTGGTGGGGTTGGCCTTCTCCACA GTTCTAGATTCACGTTATCCAGGGTGTCTTTTGTGGGAAAGGGTCCCGGGGGGGT ACCCTCCGAGGGTCTGGGGGGGGCCCCCGCCCCACCCCTTTTTTGCCGTACAA AAAACCCCTCGGGTTTTCTCTTTTTGTGCCCGGAGGTCTCCCAAATAGAAG GGCCTTTCACAACCTTGCTGGCAAATTGACCAAAATTTGGCTGTTTCCACCCCTG AGGTTTACTTCTTTTAGCCATTTCCACACAACCCCTTGAACCCCGGTAAGAAAA ATGGAAGGGCCCTCGCCCTTGCCTTGCCTGGACCCGCGCCCATTTGCCCTTTTT GGAAAATGGGGGGTTTTCTCCCTAAAACGCCTTGCCTCTTTTCG
Restriction Sites:	NotI-NotI
ACCN:	NM_004349
Insert Size:	2800 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
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:	<ol style="list-style-type: none"> 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_004349.2 , NP_004340.1
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

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]
Transcript Variant: This variant (1) encodes isoform A. Variants 1, 5 and 6 all encode isoform A, also known as MTG8a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.