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Product datasheet for SC331215

RUNX1T1 (NM_001198630) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: RUNX1T1 (NM_001198630) Human Untagged Clone

Tag: Tag Free

Symbol: RUNX1T1

Synonyms: AML1-MTG8; AML1T1; CBFA2T1; CDR; ETO; MTG8; ZMYND2

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC331215 representing NM_001198630.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGATATCTGTCAAAAGAAACACTTGGAGAGCACTGAGTTTAGTAATAGGTGACTGCCGGAAAAAAGGG
AACTTTGAATATTGTCAAGATCGTACTGAGAAGCACTCCACAATGCCAGACTCACCTGTGGATGTGAAG
ACGCAATCTAGGCTGACTCCTCCAACAATGCCACCTCCCCCAACTACTCAAGGAGCTCCAAGAACCAGT
TCATTTACACCGACAACGTTAACTAATGGCACGAGCCATTCTCCTACAGCCTTGAATGGCGCCCCCTCA
CCACCCAATGGCTTCAGCAATGGGCCTTCCTCTTCTTCCTCCTCCTCTCTGGCTAATCAACAGCTGCCC
CCAGCCTGTGGTGCCAGGCAACTCAGCAAGCTGAAAAGGTTCCTTACTACCCTGCAGCAGTTTGGCAAT
GACATTTCACCCGAGATAGGAGAAAGAGTTCGCACCCTCGTTCTGGGACTAGTGAACTCCACTTTGACA
ATTGAAGAATTTCATTCCAAACTGCAAGAAGCTACTAACTTCCCACTGAGACCTTTTGTCATCCCATTT
TTGAAGGCCAACTTGCCCCTGCTGCAGCGTGAGCTCCTCCACTGCGCAAGACTGGCCAAACAGAACCCT
GCCCAGTACCTCGCCCAGCATGAACAGCTGCTTCTGGATGCCAGCACCACCTCACCTGTTGACTCCTCA
GAGCTGCTTCTCGATGTGAACGAAAACGGGAAGAGGCGAACTCCAGACAGAACCAAAGAAAATGGCTTT
GACAGAGAGCCTTTGCACTCAGAACATCCAAGCAAGCGACCATGCACTATTAGCCCAGGCCAGCGGTAC
AGTCCAAATAACGGCTTATCCTACCAGCCCAATGGCCTGCCTCACCCTACCCCACCTCCACCTCAGCAT
TACCGTTTGGATGATATGGCCATTGCCCACCACTACAGGGACTCCTATCGACACCCCAGCCACAGGGAC
CTCAGGGACAGAAACAGACCTATGGGGTTGCATGGCACACGTCAAGAAGAAATGATTGATCACAGACTA
ACAGACAGAGAATGGGCAGAAGAGTGGAAACATCTTGACCATCTGTTAAACTGCATAATGGACATGGTA
GAAAAAACAAGGCGATCTCTCACCGTACTAAGGCGGTGTCAAGAAGCAGACCGGGAAGAATTGAATTAC
TGGATCCGGCGGTACAGTGACGCCGAGGACTTAAAAAAAGGTGGCGGCAGTAGCAGCAGCCACTCTAGG
CAGCAGAGTCCCGTCAACCCAGACCCAGTTGCACTAGACGCGCATCGGGAATTCCTTCACAGGCCTGCG
TCTGGATACGTGCCAGAGGAGATCTGGAAGAAAGCTGAGGAGGCCGTCAATGAGGTGAAGCGCCAGGCG
ATGACGGAGCTGCAGAAGGCCGTGTCTGAGGCGGAGCGGAAAGCCCACGACATGATCACAACAGAGAGG
GCCAAGATGGAGCGCACGGTCGCCGAGGCCAAACGGCAGGCGGCGGAGGACGCACTGGCAGTTATCAAT
CAGCAGGAGGATTCAAGCGAGAGTTGCTGGAATTGTGGCCGTAAAGCGAGTGAAACCTGCAGTGGCTGT
AACACAGCCCGATACTGTGGCTCATTTTGCCAGCACAAAGACTGGGAGAAGCACCATCACATCTGTGGA
CAGACCCTGCAGGCCCAGCAGCAGGGAGACACACCTGCAGTCAGCTCCTCTGTCACGCCCAACAGCGGG
GCTGGGAGCCCGATGGACACACCACCAGCAGCCACTCCGAGGTCAACCACCCCGGGAACCCCTTCCACC
ATAGAGACAACCCCTCGCTAG

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001198630
Insert Size:	1815 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001198630.1
RefSeq Size:	7470 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]
Transcript Variant: This variant (11) utilizes three alternate exons in the 5' UTR and coding region compared to variant 1. The resulting protein (isoform B, also known as MTG8b) has a longer and distinct N-terminus, compared to isoform A. Variants 2 and 7-12 all encode isoform B. 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.