

Product datasheet for **RG231324**

RUNX1T1 (NM_001198633) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUNX1T1 (NM_001198633) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RUNX1T1
Synonyms:	AML1-MTG8; AML1T1; CBFA2T1; CDR; ETO; MTG8; ZMYND2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG231324 representing NM_001198633
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGTGGGACTCTCCGGCCCTGTGCAGTATCGTACTGAGAAGCACTCCACAATGCCAGACTCACCTGTGG
 ATGTGAAGACGCAATCTAGGCTGACTCCTCCAACAATGCCACCTCCCCCAACTACTCAAGGAGCTCCAAG
 AACCGTTCATTTACACCGACAACGTTAACTAATGGCACGAGCCATTCTCTACAGCCTTGAATGGCGCC
 CCCTACCAACCAATGGCTTCAGCAATGGGCTTCCTCTTCTCTCCTCTCTCTGGCTAATCAACAGC
 TGCCCCAGCCTGTGGTCCAGGCAACTCAGCAAGCTGAAAAGGTTCTTACTACCCTGCAGCAGTTTGG
 CAATGACATTTACCCGAGATAGGAGAAAGAGTTCGCACCCTCGTTCTGGGACTAGTGAAGTCCACTTTG
 ACAATTGAAGAATTTATTCCAACCTGCAAGAAGCTAACTTCCCCTGAGACCTTTTGTATCCCAT
 TTTTGAAGGCAACTTGGCCCTGCTGCAGCGTGAGCTCCTCCACTGCGCAAGACTGGCCAAACAGAACC
 TGCCAGTACCTGCCCAGCATGAACAGCTGCTTCTGGATGCCAGCACCCTCACCTGTTGACTCCTCA
 GAGCTGCTTCTCGATGTGAACGAAAACGGGAAGAGGCGAACTCCAGACAGAACCAAAAGAAAATGGCTTTG
 ACAGAGAGCCTTTGCACTCAGAACATCCAAGCAAGCGACCATGCACTATTAGCCCAGGCCAGCGGTACAG
 TCCAAATAACGGCTTATCCTACCAGCCCAATGGCTGCCTCACCTACCCACCTCCACCTCAGCATTAC
 CGTTTGGATGATATGGCCATTGCCACCACTACAGGGACTCCTATCGACACCCCAGCCACAGGGACCTCA
 GGGACAGAAACAGACCTATGGGGTTGCATGGCACACGTCAGAAGAAATGATTGATCACAGACTAACAGA
 CAGAGAATGGGCAGAAGAGTGGAACATCTTGACCATCTGTTAACTGCATAATGGACATGGTAGAAAAA
 ACAAGGCGATCTCTACCGTACTAAGGCGGTGTCAAGAAGCAGACCCGGGAAGAATTGAATTACTGGATCC
 GCGCGTACAGTGACCCGAGGACTTAAAAAAGGTGGCGGAGTGCAGCAGCAGCACTTAGGCAGCAGAG
 TCCCGTCAACCCAGACCCAGTTGCACTAGACGCGCATCGGGAATTCCTTACAGGCCTGCGTCTGGATAC
 GTGCCAGAGGAGATCTGGAAGAAAGCTGAGGAGCGGCAATGAGGTGAAGCGCCAGGCGATGACGGAGC
 TGCAAGGCGGTGTCTGAGGCGGAGCGGAAAGCCACGACATGATCACAACAGAGAGGGCCAAGATGGA
 GCGCACGGTGCAGAGGCCAAACGGCAGGCGGCGGAGGACGCACTGGCAGTTATCAATCAGCAGGAGGAT
 TCAAGCGAGAGTTGCTGGAATTGTGGCGTAAAGCGAGTGAACCTGCAGTGGCTGTAACACAGCCCGAT
 ACTGTGGCTCATTTGCCAGCACAAAGACTGGGAGAAGCACCATCACATCTGTGGACAGACCCTGCAGGC
 CCAGCAGCAGGGAGACACCTGCAGTCAGCTCCTCTGTACGCCCAACAGCGGGCTGGGAGCCCGATG
 GACACACCACGAGCAGCCACTCCGAGGTAACACCCCGGAACCCCTTCCACCATAGAGACAACCCCTC
 GC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG231324 representing NM_001198633
 Red=Cloning site Green=Tags(s)

MVGLSGPVQYRTEKHSTMPDSDVDVKTQSRLTPPTMPPPPTTQGAPRTSSFTPTTLTNGTSHSPTALNGA
 PSPPNGFSNGPSSSSSSSLANQLPPACGARQLSKLKRFLTTLQQFGNDISPEIGERVRTLVLGLVNSTL
 TIEEFHSLQEATNFPLRPVIFPLKANLPLQLRELLHCARLAKQNPAYLAQHEQLLLDASTTSPVDSS
 ELLLDVNEGKRRTPDRTKENGFDRPLHSEHPSKRPCTISPGQRYSPNGLSYQPNGLPHPTPPPQHY
 RLDDMAIAHHRYSYRHPSHRDLRDRNRPMLHGTRQEEMIDHRLTDREWAEWKHLHDLLNCDMVEK
 TRRSLTVLRRQEAADREELNYWIRRYSDAEDLKKGGSSSSHSRQQSPVNPDPVALDAHREFLRPASGY
 VPPEIWKKAEEAVNEVKRQAMTELQKAVSEAERKAHDMITTERAKMERTVAEAKRQAEDALAVINQQED
 SSECWNCGRKASETCSGCNTARYCGSFCQHKDWEKHHHICGQTLQAQQQGDTPAVSSSVTPNSGAGSPM
 DTPPAATPRSTTPGTPSTIETPR

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001198633

ORF Size: 1752 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_001198633.1](#), [NP_001185562.1](#)

RefSeq Size: 7372 bp

RefSeq ORF: 1755 bp

Locus ID: 862

UniProt ID: [Q06455](#)

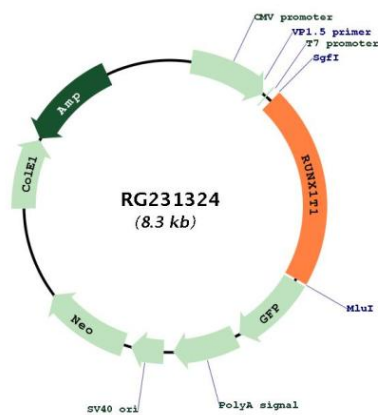
Cytogenetics: 8q21.3

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]

Product images:



Circular map for RG231324