

## Product datasheet for RC231339L4V

## OriGene Technologies, Inc.

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## **RUNX1T1 (NM\_001198634) Human Tagged ORF Clone Lentiviral Particle**

**Product data:** 

**Product Type:** Lentiviral Particles

**Product Name:** RUNX1T1 (NM\_001198634) Human Tagged ORF Clone Lentiviral Particle

Symbol: RUNX1T'

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

Mammalian Cell

Selection:

Puromycin

**Vector:** pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

**ACCN:** NM\_001198634

ORF Size: 1845 bp

**ORF Nucleotide** 

The ORF insert of this clone is exactly the same as(RC231339).

Sequence:

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.

**RefSeg:** NM 001198634.1

**RefSeq ORF:** 1848 bp

Locus ID: 862

UniProt ID: Q06455

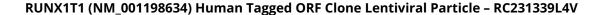
Cytogenetics: 8q21.3

**Protein Families:** Transcription Factors

**Protein Pathways:** Acute myeloid leukemia, Pathways in cancer

**MW:** 69.2 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]