

Product datasheet for **TR309684**

RUNX1T1 Human shRNA Plasmid Kit (Locus ID 862)

Product data:

Product Type:	shRNA Plasmids
Product Name:	RUNX1T1 Human shRNA Plasmid Kit (Locus ID 862)
Locus ID:	862
Synonyms:	AML1-MTG8; AML1T1; CBFA2T1; CDR; ETO; MTG8; ZMYND2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	RUNX1T1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 862). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001198625 , NM_001198626 , NM_001198627 , NM_001198628 , NM_001198629 , NM_001198630 , NM_001198631 , NM_001198632 , NM_001198633 , NM_001198634 , NM_001198679 , NM_004349 , NM_175634 , NM_175635 , NM_175636 , NM_175636.1 , NM_175636.2 , NM_004349.1 , NM_004349.2 , NM_004349.3 , NM_175634.1 , NM_175634.2 , NM_175635.1 , NM_175635.2 , NM_001198633.1 , NM_001198634.1 , NM_001198625.1 , NM_001198632.1 , NM_001198626.1 , NM_001198627.1 , NM_001198628.1 , NM_001198629.1 , NM_001198630.1 , NM_001198631.1 , BC005850 , BC067078 , BC139783 , NM_001198625.2 , NM_175634.3 , NM_175635.3 , NM_001198629.2 , NM_001198630.2 , NM_001198634.2 , NM_004349.4
UniProt ID:	Q06455
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]



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shRNA Design:

These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our [custom shRNA service](#).

Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).