Gene Section

Short Communication

AF17 (ALL1 fused gene from chromosome 17)

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Identity

Other names: MLLT6 (myeloid/lymphoid leukemia translocated to, 6)
Location: 17q21
Local order: proximal to RARA, also in 17q21; HLF is even more distal in 17q22.

DNA/RNA

Transcription
7.5 and 5 kb mRNA; coding sequence: 3.3 kb.

Protein

Description
1093 amino acids; N-term - 3 Zn fingers (LAP type) and a leucine zipper - C-term; a leucine zipper is a dimerization motif.

Localisation
Nuclear.

Function
Transcriptional regulation factor.

Homology
With AF10 and BR140, a gene sitting in 3p25.

Implicated in

\[ t(11;17)(q23;q21)/ANLL \rightarrow MLL/AF17 \]

Disease
ANLL and MDS.

Cytogenetics
Additional anomaly: +8.

Hybrid/Mutated Gene
5’ MLL - 3’ AF17.

Abnormal Protein
N-term AT hook and DNA methyltransferase from MLL fused to the leucine zipper C-term of AF17.

References


This article should be referenced as such: