

## t(3;11)(p21;q23)

### Clinics and Pathology

<b>Disease</b>	treatment related acute non lymphoblastic leukemia (t-ANLL)
Phenotype / cell stem origin	M5b ANLL
Epidemiology	only one case; a female patient aged 23 yrs and treated 9 years ago for T-ALL
Prognosis	unknown; likely to be poor, both as it carries a MLL rearrangements and as occurs in t-ANLL

### Cytogenetics

Cytogenetics	sole anomaly
Morphological	

### Genes involved and Proteins

<b>Gene Name</b>	<a href="#">MLL</a>
Location	in 11q23
Dna / Rna	13-15 kb mRNA
Protein	431 kDa; contains two DNA binding motifs (a AT hook, and Zinc fingers), a DNA methyl transferase motif, a bromodomain; transcriptional regulatory factor; nuclear localisation

<b>Gene Name</b>	<a href="#">AF3p21</a>
Location	3p21

### Result of the chromosomal anomaly

<b>Hybrid gene Description</b>	breakpoints of MLL between exons 9 and 10 and upstream of exon 1 of the AF3p21 gene
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<b>Fusion Protein Description</b>	AT hooks and methyltransferase domains of MLL in the N-term fused to the proline-rich domain and nuclear localization signal of AF3p21
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## External links

Other database [t\(3;11\)\(p21;q23\)](#) [Mitelman database \(CGAP - NCBI\)](#)

Other database [t\(3;11\)\(p21;q23\)](#) [CancerChromosomes \(NCBI\)](#)

## To be noted

Additional cases are needed to delineate the epidemiology of this rare entity:

**you are welcome to submit a paper to our new [Case Report section](#).**

## Bibliography

**A novel sh3 protein encoded by the AF3p21 gene is fused to MLL in a therapy-related leukemia with t(3; 11)(p21;q23).**

Sano K, Hayakawa A, Jin-Hua P.

Blood 1999; 94 Suppl 1: Abst 221.

## Contributor(s)

Written 02-2000 Jean-Loup Huret

## Citation

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URL : <http://AtlasGeneticsOncology.org/Anomalies/t0311ID1165.html>

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