

## t(15;21)(q22;q22)

### Clinics and Pathology

**Disease** Treatment related myelodysplastic syndrome (MDS) evolving towards acute non lymphocytic leukemia

**Etiology** the patient experienced a [mantle cell lymphoma](#) 52 mths before diagnosis of MDS

**Epidemiology** only one case to date, a 56 yr old male patient

### Cytogenetics

**Cytogenetics** sole anomaly

**Morphological**

### Genes involved and Proteins

**Note** The gene in 15q22 is yet unknown, and, because cryptic [t\(12;21\) ETV6 /AML1](#) are not rare, it is therefore uncertain whether this translocation involve a new AML1 partner

**Gene Name** [AML1](#)

**Location** 21q22

**Dna / Rna** transcription is from telomere to centromere

**Protein** contains a Runt domain and, in the C-term, a transactivation domain; forms heterodimers; widely expressed; nuclear localisation; transcription factor (activator) for various hematopoietic-specific genes

### External links

**Other database** [t\(15;21\)\(q22;q22\)](#) [Mitelman database \(CGAP - NCBI\)](#)

**Other database** [t\(15;21\)\(q22;q22\)](#) [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

**CBFA2(AML1) Translocations With Novel Partner Chromosomes in Myeloid Leukemias: Association With Prior Therapy.**

Roulston D, Espinosa IIR, Nucifora G, Larson RA, Le Beau MM, Rowley JD.

Blood 1998; 92: 2879-2885.

Medline [9763573](#)

**Novel cryptic, complex rearrangements involving ETV6-CBFA2 (TEL-AML1) genes identified by fluorescence in situ hybridization in pediatric patients with acute lymphoblastic leukemia.**

Mathew S, Shurtleff SA, Raimondi SC.

Genes Chromosomes Cancer. 2001; 32: 188-193.

Medline [11550288](#)

**Contributor(s)**

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<http://www.infobiogen.fr/services/chromcancer/Anomalies/t1521q22q22ID1270.html>

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