

t(4;21)(q31;q22)

Clinics and Pathology

Disease Acute myeloid leukaemia (AML)

Epidemiology only one case to date, a 81 year old male patient with M1 AML

Prognosis no data

Genes involved and Proteins

Gene Name SH3D19/Eve1

Location 4q31

Protein adaptor protein; may play a role in the positive regulation of the activity of ADAMs (A disintegrin and metalloproteases)

Gene Name [RUNX1](#)

Location 21q22

Protein Transcription factor (activator) for various hematopoietic-specific genes, which expression is limited to hematopoietic stem cells, and endothelial cells and mesenchymal cells in the embryo; core binding factor family member which forms heterodimers with [CBFB](#); binds to the core site 5' PyGPyGGTPy 3' of promoters and enhancers

Result of the chromosomal anomaly

Hybrid gene

Description 5' RUNX1 -3' SH3D19

External links

Other database [t\(4;21\)\(q31;q22\)](#) [Mitelman database \(CGAP - NCBI\)](#)

Other database [t\(4;21\)\(q31;q22\)](#) [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

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