MLF1 (myelodysplasia/myeloid leukemia factor 1)

Jean-Loup Huret

Genetics, Department of Medical Information, University of Poitiers, CHU Poitiers Hospital, F-86021 Poitiers, France

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Identity

Location: 3q25
Local order: EVI1/MDS1 is more telomeric (in 3q26), BCL6 even more in 3q27.

DNA/RNA

Transcription
Alternate splicing: 1.4 and 2.4 kb.

Protein

Description
267 amino acids; 31 kDa; does not contain known functional motifs.

Expression
MLF1 transcripts widely expressed (gonads, muscle, heart, kidney, and colon).

Localisation
Cytoplasmic localisation.

Homology
None is known, apart from MLF2 (40% homology).

Implicated in

\[ t(3;5)(q25;q34)/ANLL \text{ or } MDS \rightarrow NPM1/MLF1 \]

Disease
ANLL, MDS, BC-CML; trilineage involvement.

Prognosis
Very poor.

Cytogenetics
Location of breakpoints difficult to ascertain.

Hybrid/Mutated Gene
5’ NPM1 - 3’ MLF1 on der(5).

Abnormal Protein
Nuclear protein.

References


This article should be referenced as such: