Genes Section
Short Communication

CALM (clathrin assembly lymphoid myeloid leukemia gene)
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Identity

Location: 11q14-21

Probe(s) - Courtesy Mariano Rocchi, Resources for Molecular Cytogenetics.

DNA/RNA

Transcription
Major mRNA: 4 kb; other: 3 and 9 kb.

Protein

Description
652 amino acids.

Expression
Wide.

Function
Role in the integration of signals from different pathways (clathrin, phosphoinositols, receptor-mediated endocytosis).

Homology
With ap-3, a clathrin assembly protein (mouse).

Implicated in

\[ t(10;11)(p13;q14-21) \rightarrow \text{CALM/AF10 and/or AF10/CALM} \]

Disease
Yet to be well delineated; T-cell ALL.

Prognosis
Uncertain (median survival 2 yrs?).

Cytogenetics
May well be confused with the \( t(10;11)(p12;q23) \), where MLL on 11q23 is involved, instead of CALM.

Hybrid/Mutated Gene
5' CALM - 3' AF10 and 5' AF10 - 3' CALM.

Abnormal Protein
Both CALM-AF10 and the reciprocal AF10-CALM are expressed.

References


Kobayashi H, Hosoda F, Maseki N, Sakurai M, Imashuku S, Ohki M, Kaneko Y. Hematologic malignancies with the \( t(10;11)(p13;q21) \) have the same molecular event and a variety of morphologic or immunologic phenotypes. Genes Chromosomes Cancer 1997 Nov;20(3):253-9.

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