

Gene Section

Short Communication

AF5q31 (ALL1 fused gene from chromosome 5q31)

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Identity

Location : 5q31

DNA/RNA

Description

At least 16 exons.

Transcription

4235 bp mRNA; open reading frame: 3491 bp.

Protein

Description

1163 amino acids; 127 kDa.

Expression

Mostly in fetal tissues (heart, lung, brain, liver); at a low level in adult tissues; therefore, AF5q31 may play a critical role in the fetal development.

Homology

With AF4-related proteins: AF4, the gene involved in t(4;11)(q21;q23), LAF4, FMR2.

Implicated in

ins(5;11)(q31;q13q23) acute lymphoblastic leukemia (ALL) --> MLL/AF5q31

Note

Poorly defined: only 1 case to date, a girl aged 4 months, with CD19+ ALL, and i(17q) as additional anomaly; complete remission, relapse and death at 20 months.

References

Taki T, Kano H, Taniwaki M, Sako M, Yanagisawa M, Hayashi Y. AF5q31, a newly identified AF4-related gene, is fused to MLL in infant acute lymphoblastic leukemia with ins(5;11)(q31;q13q23). Proc Natl Acad Sci U S A. 1999 Dec 7;96(25):14535-40

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