Gene Section
Short Communication

AF3p21 (ALL1 fused gene from chromosome 3p21)
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Identity
HGNC (Hugo): NCKIPSD
Location: 3p21

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

DNA/RNA
Description
2990 bp cDNA.

Protein
Description
722 amino acids; N-term SH3 domain, proline-rich domain, and a nuclear localization signal in C-term.

Expression
Wide.

Implicated in
t(3;11)(p21;q23) --> AF3p21-MLL

Disease
Treatment related acute non lymphoblastic leukemia (t-ANLL).

Hybrid/Mutated gene
5 prime MLL - 3 prime AF3q21.

Abnormal protein
AT hooks and methyltransferase domains of MLL in the N-term fused to the proline-rich domain and nuclear localization signal of AF3p21.

References
Sano K, Hayakawa A, Jin-Hua P. A novel sh3 protein encoded by the AF3p21 gene is fused to MLL in a therapy-related leukemia with t(3;11)(p21;q23). Blood 1999;94 Suppl 1:Abst 221

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