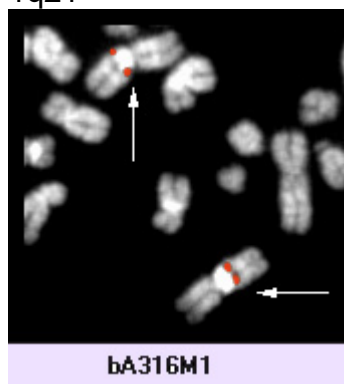


AF1q (ALL1 fused gene from chromosome 1q)

Identity

Location 1q21



AF1q (1q21) - Courtesy Mariano Rocchi, [Resources for Molecular Cytogenetics](#).
Laboratories willing to validate the probes are welcome : contact rocchi@biologia.uniba.it

DNA/RNA

Transcription 1.8 kb mRNA; coding sequence CDS 401... 673

Protein

Description 90 amino acids; 9 kDa

Expression detected in various tissues (small intestine, colon, thymus mainly), but not in (normal) mature blood cells; expressed in all leukemic cell lines tested

Function unknown

Homology no known homology

Implicated in

Entity [t\(1;11\) \(q21;q23\)/ANLL](#) --> [MLL](#) - AF1q

Disease ANLL

Prognosis yet unknown

Hybrid/Mutated breakpoints: between exons 6 and 7 in MLL and within the 5'

Gene untranslated region in AF1q

Abnormal Protein N-term -- AT hook and DNA methyltransferase from MLL fused to the entire AF1q on the der(11); the reciprocal on der(1) is out of frame

External links

Nomenclature

[GDB](#)

[AF1Q](#)

[Entrez Gene](#)

[AF1Q_10962](#) ALL1-fused gene from chromosome 1q

Cards

[Atlas](#)

[AF1q12](#)

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[AF1Q](#)

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[CancerGene](#) [AF1Q](#)
[GenAtlas](#) [AF1Q](#)
[GeneLynx](#) [AF1Q](#)
[eGenome](#) [AF1Q](#)
[euGene](#) [10962](#)

Genomic and cartography

[GoldenPath](#) [AF1Q - 1q21](#) [chr1:147845224-147854045 + 1q21.2](#) (hg17-May_2004)

[Ensembl](#) [AF1Q - 1q21.2 \[CytoView\]](#)
[NCBI](#) [Genes Cyto](#) [Gene Seq](#) [Map View - NCBI]
[OMIM](#) [Disease map \[OMIM\]](#)
[HomoloGene](#) [AF1Q](#)

Gene and transcription

[Genbank](#) [AL590133](#) [SRS] [AL590133](#) [ENTREZ]
[Genbank](#) [AK056089](#) [SRS] [AK056089](#) [ENTREZ]
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[TRASER](#) [AF1Q](#) [Traser - Stanford](#)
[Unigene](#) [Hs.75823](#) [SRS] [Hs.75823](#) [NCBI] [HS75823](#) [spliceNest]

Protein : pattern, domain, 3D structure

[SwissProt](#) [Q13015](#) [SRS] [Q13015](#) [EXPASY] [Q13015](#) [INTERPRO]
[CluSTr](#) [Q13015](#)
[Blocks](#) [Q13015](#)

Polymorphism : SNP, mutations, diseases

[OMIM](#) [604684](#) [[map](#)]
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[SNP](#) [NM_006818](#) [SNP-NCI]
[SNP](#) [AF1Q](#) [GeneSNPs - Utah] [AF1Q](#) [SNP - CSHL] [AF1Q](#) [HGBASE - SRS]

General knowledge

[Family Browser](#) [AF1Q](#) [UCSC Family Browser]
[SOURCE](#) [NM_006818](#)
[SMD](#) [Hs.75823](#)
[SAGE](#) [Hs.75823](#)
[Amigo](#) [component|cellular](#) [component unknown](#)
[Amigo](#) [function|molecular](#) [function unknown](#)
[PubGene](#) [AF1Q](#)

Other databases

Probes

[Probe](#) [Cancer Cytogenetics \(Bari\)](#)

PubMed

[PubMed](#) [4 Pubmed reference\(s\) in LocusLink](#)

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A novel gene, AF1q, fused to MLL in t(1;11) (q21;q23), is specifically expressed in leukemic and immature hematopoietic cells.

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Contributor(s)

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Citation

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Bernard O . AF1q (ALL1 fused gene from chromosome 1q). Atlas Genet Cytogenet Oncol Haematol. April 1998 .

URL : <http://www.infobiogen.fr/services/chromcancer/Genes/AF1q12.html>

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