Gene Section
Mini Review

ZNF198 (zinc finger protein 198)
Jean-Loup Huret, Dominique Leroux

Genetics, Dept Medical Information, University of Poitiers, CHU Poitiers Hospital, F-86021 Poitiers, France (JLH); Lymphoma Research Group - Groupe de Recherche sur les Lymphomes, Institut Albert Bonniot, La Tronche 38706, France (DL)

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Identity

Other names: FIM (fused in myeloproliferative disorders)
Location: 13q12
Local order: proximal from FLT1 and FLT3.

![Diagram](Image)

FIM (13q12) - Courtesy Mariano Rocchi, Resources for Molecular Cytogenetics. Laboratories willing to validate the probes are welcome: contact rocchi@biologia.uniba.it.

DNA/RNA

Description
5.0 kb cDNA; coding sequence: 4.1 (formerly 2.7 kb).

Transcription
Main transcripts: 5.0 and 7.5 kb.

Protein

Description
1379 amino acids; 4 zinc fingers in N-term, a highly hydrophobic proline repeat, and a C-term acidic domain.

Expression
Wide.

Homology
With DXS6673E, a gene which may be related with mental retardation.

<table>
<thead>
<tr>
<th>ZNF198</th>
<th>4 zinc fingers</th>
<th>Proline</th>
<th>NLS</th>
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</table>

Proline: proline rich
NLS: Nuclear localisation signal

Implicated in

t(8;13)(p12;q12)/ANLL-NHL → 5'
ZNF198 - 3' FGFR1

Disease
Combined myeloid malignancy and T-cell NHL.

Prognosis
Very poor (median survival: 12 mths).

Cytogenetics
Additional anomalies: +8, +der(13), +21.

Hybrid/Mutated Gene
5' ZNF198 - 3' FGFR1.
Abnormal Protein
N-term zinc fingers from ZNF198 fused to the Tyrosine kinase domain of FGFR1 in C-term.

Oncogenesis
Constitutive activation of FGFR1.

References


This article should be referenced as such: