Atlas of Genetics and Cytogenetics in Oncology and Haematology

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Gene Section
Short Communication

MDS2 (myelodysplastic syndrome 2 translocation associated)

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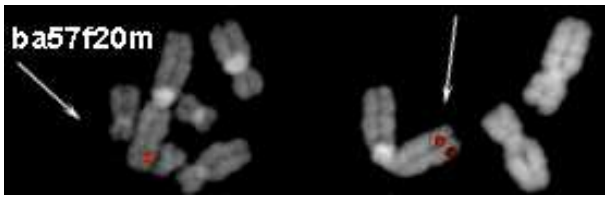
Online updated version: http://AtlasGeneticsOncology.org/Genes/MDS2ID476.html
DOI: 10.4267/2042/37984

Identity

HGNC (Hugo): MDS2

Location: 1p36

Location (base pair): 23024



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

DNA/RNA

Description

Spans 13 kb; 7 exons.

Transcription

4 alternate splicings; major splice: 281 bp, exons 1, 4, 6, 7 are constantly used.

Protein

Description

The 4 alternate splicings give rise to 2 proteins, of 82 and 140 amino acids.

Expression

Wide.

Implicated in

t(1;12)(p36;p13) in myeloid disorders

Prognosis

Unknown so far.

Hybrid/Mutated gene

5' ETV6 - 3' MDS2.

Abnormal protein

Truncated ETV6.

References

Odero MD, Vizmanos JL, Román JP, Lahortiga I, Panizo C, Calasanz MJ, Zeleznik-Le NJ, Rowley JD, Novo FJ. A novel gene, MDS2, is fused to ETV6/TEL in a t(1;12)(p36.1;p13) in a patient with myelodysplastic syndrome. Genes Chromosomes Cancer. 2002 Sep;35(1):11-9

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