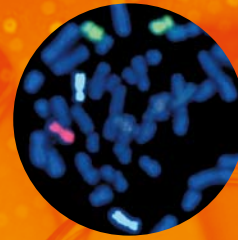
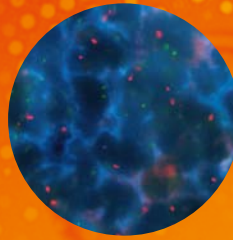


POSEIDON NEWSLETTER



NEW FISH PROBE

NEUROFIBROMATOSIS 1 (NF1, VON RECKLINGHAUSEN DISEASE)

Neurofibromatosis type 1 (NF1) is a neurocutaneous disorder and associated with an elevated risk for malignant tumors of tissues derived from neural crest cells.

The NF1 gene is considered a tumor suppressor gene and inactivation of both copies can be found in NF1-associated benign and malignant tumors. The mutant gene is transmitted with an autosomal dominant pattern of inheritance, but up to 50% of NF-1 cases arise due to spontaneous mutation. The incidence of NF-1 is about 1 in 3500 life births.

Neurofibromatosis 1 (NF1) is characterized by multiple café au lait spots, axillary and inguinal freckling, multiple discrete dermal neurofibromas, and iris Lisch nodules. Learning disabilities are present in at least 50% of individuals with NF1.

Whole NF1 gene deletions occur in 4%-5% of individuals with NF1 and can be detected by FISH analysis.

The Poseidon NF1 (17q11) region probe is optimized to detect copy numbers of the NF1 gene region at 17q11.

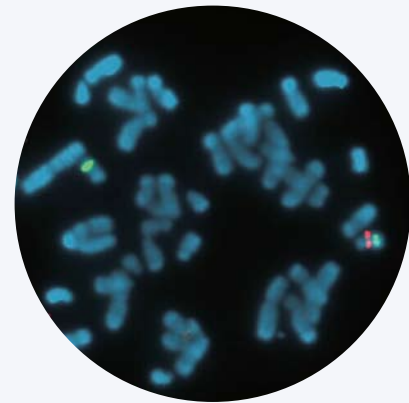
The MPO (17q22) region probe is included as control probe.

Cat.#	Repeat-free probe
KBI-40114	MD NF1 (17q11) / MPO (17q22), dual-color

References:

Riva P et al, 2000, Am.J.Hum.Genet. 66; 100-109
Dorschner et al, 2000, Hum.Mol.Genet. 9; 35-46

**For more information
please visit our website:
www.kreatech.com**



**Deletion of NF1 (17q11, red signal)
with MPO (17q22, green) control**

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