

# **Genes-4U**

## **Vascular endothelial growth factor (VEGF) -Promoter C/T 1903, A/C 823 and G/C 2247 (Genbank Accession Nr. AF095785)**

Vascular endothelial growth factor (VEGF) is one of the central mediators of angiogenesis and involved in physiologic processes like wound healing but also pathologic processes like tumor angiogenesis, metastasis, rheumatoid arthritis or diabetic retinopathy. Differential increases in serum VEGF after polytrauma have been associated with occurrence of complications like sepsis, MODS and ARDS. VEGF serum levels are also increased in inflammatory bowel disease, in various tumors and in the POEMS syndrome. Recently, 19 (nineteen !) polymorphisms in the VEGF promoter region have been identified, but their functional relevance has not yet been established. However, even in healthy individuals, wide variations in plasma VEGF protein are known, and it is likely that some of this variation is due to these polymorphisms. Tests for the three most common polymorphisms : C/T 1903, A/C 823 and G/C 2247 with allelic frequencies of 47 %, 43 % and 29 % respectively have already been established, and more are on the way.

### References

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