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NQO1*2 Allele

National Cancer Institute

Source

National Cancer Institute. NQO1*2 Allele. NCI Thesaurus. Code C78134.

Human NQO1*2 allele is located in the vicinity of 16q22.1 and is approximately 17 kb in length. The NQO1 *2 allele has a C609T substitution in the cDNA, which encodes NAD(P)H dehydrogenase [quinone] 1*2 protein that results in the amino acid change P187S. The NQO1*2 protein has both diminished catalytic activity and altered degradation by the ubiquitin-proteasomal system. Expression of this allele is associated with increased risk of benzene hematotoxicity, asthma and leukemias and decreased breast cancer survival.

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