HOXA11 wt Allele

National Cancer Institute

Source

National Cancer Institute. HOXA11 wt Allele. NCI Thesaurus. Code C97569.

Human HOXA11 wild-type allele is located in the vicinity of 7p15.2 and is approximately 4 kb in length. This allele, which encodes homeobox protein Hox-A11, plays a role in transcriptional regulation. Mutation of the gene is associated with radioulnar synostosis with amegakaryocytic thrombocytopenia. Two chromosomal aberrations inv(7)(p15q34) and t(7;7)(p15;q34) of this gene and the TCRB gene locus lead to ectopic expression of the HOXA11 gene and are associated with T-cell acute lymphoblastic leukemia. A chromosomal translocation t(7;11)(p15;p15) of this gene and the NUP98 gene might be associated with chronic myelogenous leukemia.