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# CHEK2 wt Allele

National Cancer Institute

## Source

National Cancer Institute. *CHEK2 wt Allele*. NCI Thesaurus. Code C51197.

Human CHEK2 wild-type allele is located in the vicinity of 22q12.1 and is approximately 57 kb in length. This allele, which encodes serine/threonine-protein kinase Chk2 protein, is involved in prevention of entry into mitosis and induction of G1 checkpoint arrest in response to DNA damage. Certain allelic variants of the CHEK2 gene that encode protein products with reduced or abolished activity are associated with Li-Fraumeni syndrome 2. Heritable alterations in this gene also confer susceptibility to breast, colorectal and prostate cancers.