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Non-synonymous Coding SNP

National Cancer Institute

Source

National Cancer Institute. *Non-synonymous Coding SNP*. NCI Thesaurus. Code C45397.

A Non-synonymous Coding SNP consists of a variation at an appreciable frequency between individuals of a single interbreeding population of a single nucleotide, due to base substitution, at an equivalent location within a protein-coding region of a gene that causes an alteration of the translation of the affected codon into a different amino acid in the protein product. A missense non-synonymous SNP results in an amino acid change in the protein product due to a codon change, while a nonsense non-synonymous SNP results in a termination codon.