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# HTR2A 1 Allele

National Cancer Institute

## Source

National Cancer Institute. *HTR2A 1 Allele*. NCI Thesaurus. Code C45685.

HTR2A-C Allele is a variant form of 20-kb 3-exon human HTR2A Gene (GPCR1/5HT2 Family), which encodes Serotonin 5-HT-2A Receptor, a conserved integral membrane 5-HT/serotonin receptor protein involved in tracheal smooth muscle contraction, bronchoconstriction, and control of aldosterone production by association with G proteins that activate a PI-calcium second messenger system. 5-HT is a biogenic hormone that affects specific receptors as a neurotransmitter, hormone, or mitogen. HTR2A contains several polymorphic sites. Different alleles differ in the concentration of RNA and protein product of 5HTR2A. HTR2A-C Allele contains a single-nucleotide polymorphism (102 T>C) in an intron and is expressed at a lower level than the 102 C>T allele.