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# GUCY1A1 wt Allele

National Cancer Institute

## Source

National Cancer Institute. *GUCY1A1 wt Allele*. NCI Thesaurus. Code C52037.

Human GUCY1A1 wild-type allele is located in the vicinity of 4q32.1 and is approximately 70 kb in length. This allele, which encodes guanylate cyclase soluble subunit alpha-1 protein, plays a role in both the biosynthesis of cyclic GMP and binding of nitric oxide. Mutation of the gene is associated with moyamoya 6 with achalasia.