BACKGROUND

The X and Y chromosomes are the human sex chromosomes. Chromosome X consists of about 153 million base pairs and nearly 1,000 genes. The combination of an X and Y chromosome lead to normal male development while two copies of X lead to normal female development. There are a number of conditions related to an unusual number and combination of sex chromosomes being inherited. More than one copy of the X chromosome with a Y chromosome causes Klinefelter’s syndrome. A single copy of X alone leads to Turner’s syndrome. More than 2 copies of the X chromosome, in the absence of a Y chromosome, is known as Triple X syndrome. Colorblindness, hemophilia, and Duchenne muscular dystrophy are well known X chromosome-linked conditions which affect males more frequently as males carry a single X chromosome. The FAM133A gene product has been provisionally designated FAM133A pending further characterization.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: FAM133A (human) mapping to Xq21.32.

RESEARCH USE

For research use only, not for use in diagnostic procedures.