

the first two, the third is a *de novo* mutation. The first two mutations are in the *hprt* gene, which encodes the enzyme hypoxanthine phosphoribosyl transferase. The third mutation is in the *tk* gene, which encodes the enzyme thymidine kinase. The *hprt* and *tk* genes are located on the X chromosome. The *hprt* gene is located at Xp22.3 and the *tk* gene is located at Xp21.3. The *hprt* gene is a large gene with 8 exons and 9 introns. The *tk* gene is a small gene with 1 exon and 0 introns. The *hprt* gene is a member of the *hprt* family of genes. The *tk* gene is a member of the *tk* family of genes.

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