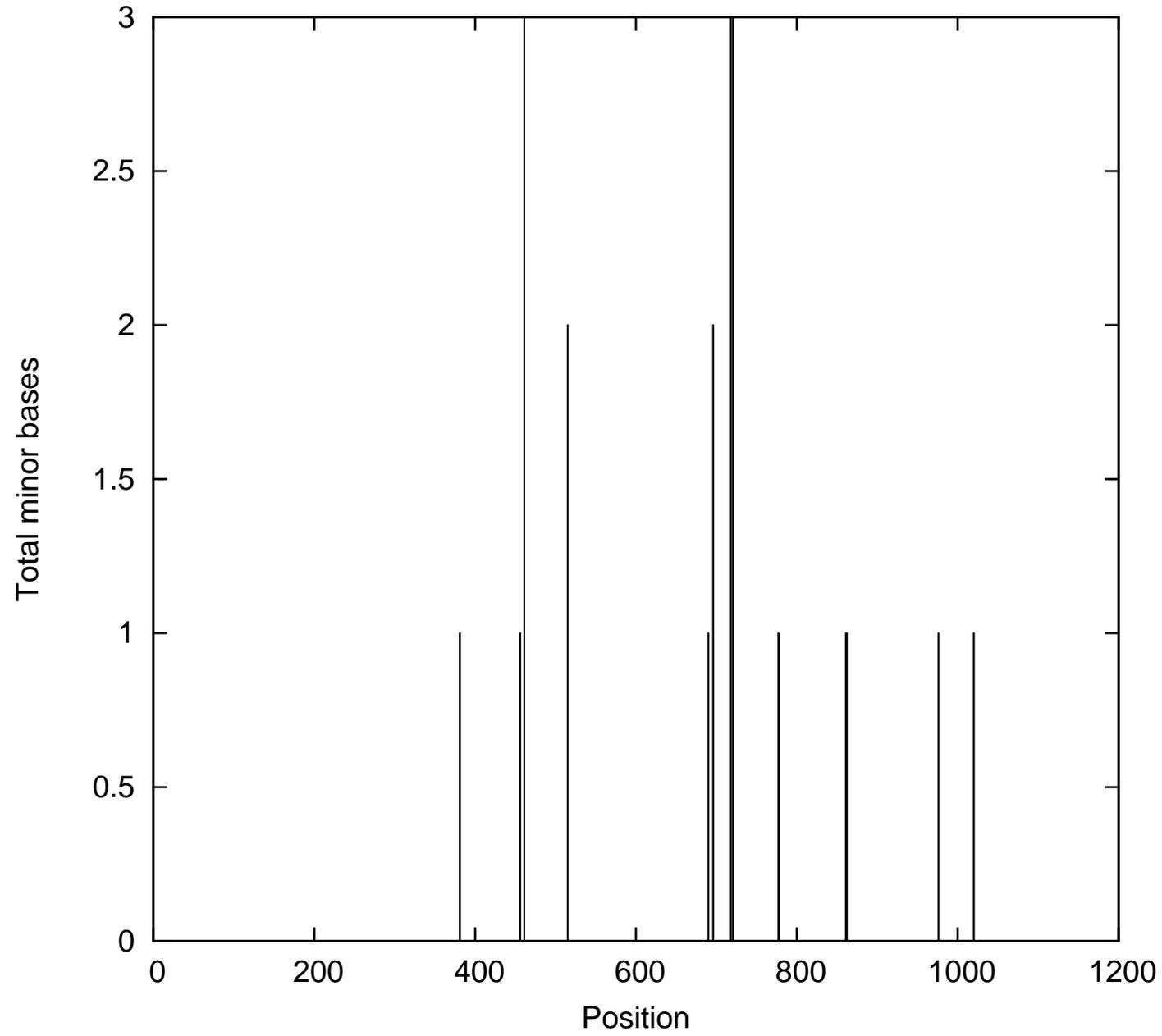Internal Variants