

Newly synthesized strand 5' **TACGGACTGAAAA** 3'
Template strand 3' **ATGCCTGACTTTTTGCCGAAG** 5'

Scenario 1

Newly synthesized strand loops out

5' **TACGGACTGAAA** 3'
3' **ATGCCTGACTTTTTGCCGAAG** 5'

One nucleotide is added on the new strand.

5' **TACGGACTGAAAAACGCTTC** 3'
3' **ATGCCTGACTTTTTGCCGAAG** 5'

The result is the new strand has an extra nucleotide (A)

Scenario 2

Template strand loops out

5' **TACGGACTGAAAA** 3'
3' **ATGCCTGACTTTTTGCCGAAG** 5'

One nucleotide is omitted on the new strand.

5' **TACGGACTGAAAAACGCTTC** 3'
3' **ATGCCTGACTTTTTGCCGAAG** 5'

The result is the new strand is missing a nucleotide (A)

Genetic Mutations What Mistakes Occur When Dna Is Replicated

Minjie Lin



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