

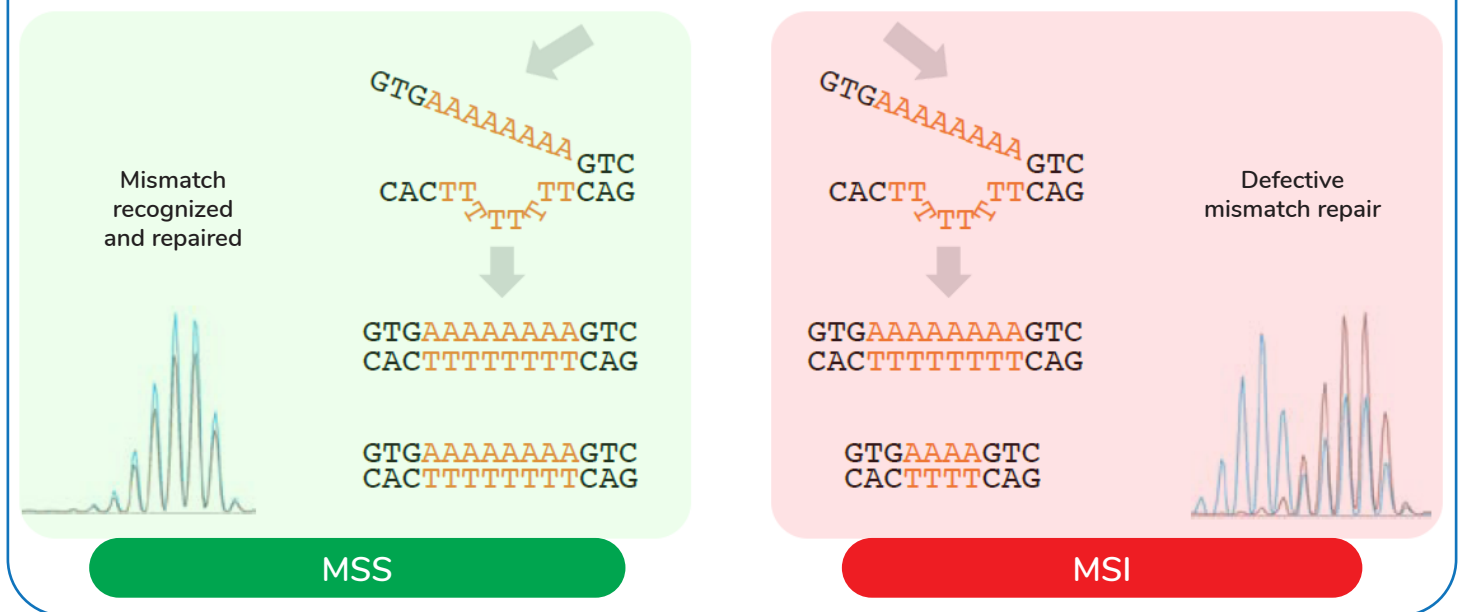
# Microsatellite Instability (MSI)

FDA-approved tumor-agnostic predictive biomarker for Immunotherapy



- **Microsatellite instability (MSI/MSI-H)** are regions of short repeated DNA (1-9 nucleotides).
- Accumulation of mutations (insertions or deletions of a few nucleotides) in microsatellites is caused by deficient DNA mismatch repair system (MMR) and leads to microsatellite instability (MSI).
- MMR system comprises at least ten proteins including MLH1, MSH2, MSH6, and PMS2, which are the most frequently mutated or epimutated (MLH1) genes in cancer.

GTGAAAAAAAAAGTC  
CACTTTTTTTCAG



## MSI Testing Methodology

