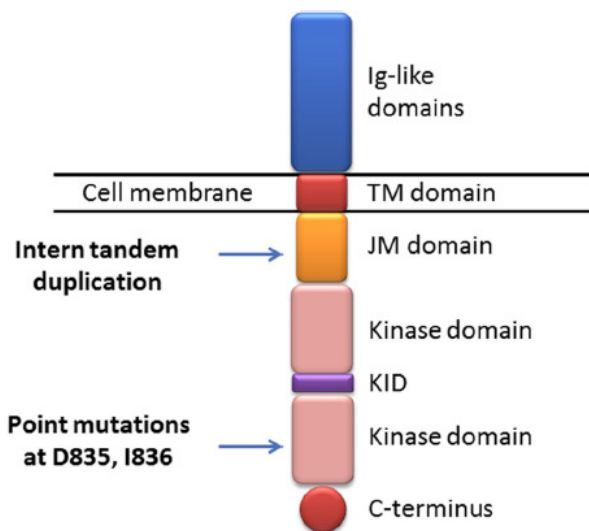


## TRUPCR® FLT3 Mutation Detection Kit

The **TRUPCR® FLT3 Mutation Detection** is a PCR-based in vitro diagnostic test designed to detect internal tandem duplications (ITD) and tyrosine kinase domain (TKD) mutation (D835) in the FLT3 gene in genomic DNA extracted from mononuclear cells obtained from peripheral blood of patients diagnosed with acute myelogenous leukemia (AML). TRUPCR® FLT3 Mutation Detection Kit is a combination of conventional PCR and Real time PCR.

The FLT3 gene encodes a receptor tyrosine kinase (RTK) that plays a critical role in hematopoiesis and cell growth because it regulates diverse cellular processes such as proliferation, differentiation and apoptosis. The most common mutation in FLT3 involves internal tandem duplication (ITD) between exons 14 and 15 in the juxtamembrane domain, which varies in length and position of patient to patient. The main impact of FLT3-ITD is its association with high blast accounts, increased risk of relapse and decreased survival. The second common type of mutation in FLT3 is missense mutations in exon 20 of the activation loop (A-loop) in the tyrosine kinase domain (TKD). Almost all these mutations involve the substitution of an aspartate with a tyrosine at codon 835 (D835Y) by a point mutation (GAT→TAT). These mutations produce a conformational change in the protein, disrupting the energy balance required to stabilize the closed form, eliminating its autoinhibitory function that causes its constitutive activation.



### Key features:

- TRUPCR® FLT3 mutation detection Kit allows sensitive and specific detection of most common FLT3-ITD and D835 in single run.
- The kit offers sensitivity to detect up to 1% mutant allele in background of 99% wild type alleles and minimum ITD of 20bp.
- It is compatible with various Real Time & Conventional PCR instruments
- Easy-to-use, rapid, reliable, comprehensive and cost-effective tests

### Ordering information:

Cat. No.	Product	Contents
3B1313	TRUPCR® FLT3 Mutation Detection Kit	48Rxn
3B1314	TRUPCR® FLT3 Mutation Detection Kit	96Rxn

TRUPCR® is a registered trademark of 3B BlackBio Biotech India Ltd.

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