

## TRUPCR® CALR Kit

This Real-time PCR kit offers qualitative detection of CALR mutations, in genomic DNA from whole blood of subjects suspected of myeloproliferative neoplasms (MPN). The kit enables the identification of the two major CALR mutations, Type 1 and Type 2.

MPN are a group of diseases that affect blood-cell formation. In all forms of MPN, a bone marrow problem leads to increased levels of blood cells circulating in the bloodstream. MPN is characterized by chronic accumulation of different mature blood cell types in blood, which are either Philadelphia chromosome positive (Ph+) or negative (Ph-).

Calreticulin (CALR) is a highly conserved endoplasmic reticulum (ER) luminal Ca<sup>2+</sup>-binding chaperone protein with a critical role in the process of glycoprotein folding and a number of other cellular functions. Calreticulin is encoded by the CALR gene on chromosome 19.

The kit detects two specific mutations:

- 1) L367fs\*46 (Type 1) which represents a 52-bp deletion flanked by 7 base pairs of identical sequence
- 2) K385fs\*47 (Type 2) which results from a 5-bp insertion, and representing an inverse duplication of the five nucleotides preceding the insertion.

### Key features:

- Sensitive and specific detection of the most common CALR mutations
- Sensitivity to detect up to 1% mutant allele
- An endogenous internal control is included to avoid false negative results
- Compatible with various Real-time PCR instruments
- Easy-to-use, rapid, reliable, robust and cost-effective

### Ordering information:

Cat. No.	Product	Contents
<b>3B1351</b>	<b>TRUPCR® CALR Kit</b>	<b>24 Rxns</b>
<b>3B1352</b>	<b>TRUPCR® CALR Kit</b>	<b>48 Rxns</b>

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