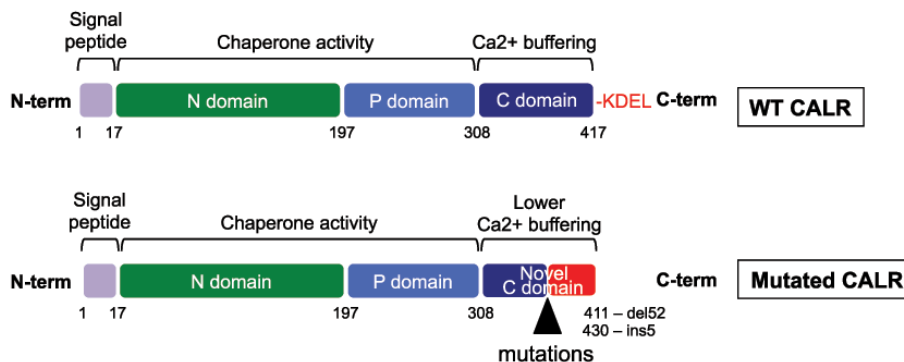


TRUPCR® CALR Kit

The TRUPCR® CALR kit is qualitative assay for the detection of CALR mutations in genomic DNA from whole blood of subjects suspected of myeloproliferative neoplasms (MPN). The TRUPCR® CALR 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^{2+} -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 the chromosome 19. Somatic mutations in exon 9 of CALR are the second most prevalent acquired nucleotide changes in Ph-negative myeloproliferative neoplasms (MPNs), except of polycythaemia vera (PV). The two specific mutations are most common, L367fs*46 (Type 1 mutation) which represents a 52-bp deletion flanked by 7 base pairs of identical sequence and a 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:

- TRUPCR® CALR Kit allows sensitive and specific detection of most common CALR Mutations in single run.
- The kit offers sensitivity to detect up to 1% mutant allele in background of 99% wild type alleles.
- Endogenous internal control is added to avoid false negative results
- 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
3B1351	TRUPCR® CALR Kit	48Rxn
3B1352	TRUPCR® CALR Kit	96Rxn

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Visit us at www.3bblackbio.com