

PlentiPlex™ Mastocytosis

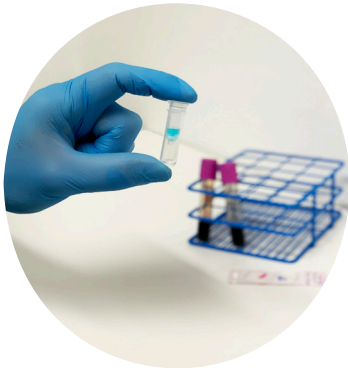
Sensitive diagnosis of Mastocytosis

The PlentiPlex™ Mastocytosis assay is intended for detection of the *KIT* D816V mutation, which is among the WHO criteria for diagnosis of mastocytosis. PlentiPlex™ Mastocytosis enables a simple and clear evaluation of the condition. PlentiPlex™ Mastocytosis is supplied in a Research-use-only version for open qPCR platforms (LOD 0.003%) and in a CE-IVD marked version for Applied Biosystems QuantStudio™ (LOD 0.01%).

Fast and easy diagnosis of mastocytosis

Results within three hours

Purify DNA



Run PCR



Analyse data



PlentiPlex™ Mastocytosis workflow. Analysis utilizing the PlentiPlex™ Mastocytosis technology only requires three simple steps. The entire workflow can be performed within a few hours from sample to result, with little hands-on time and no special training required.

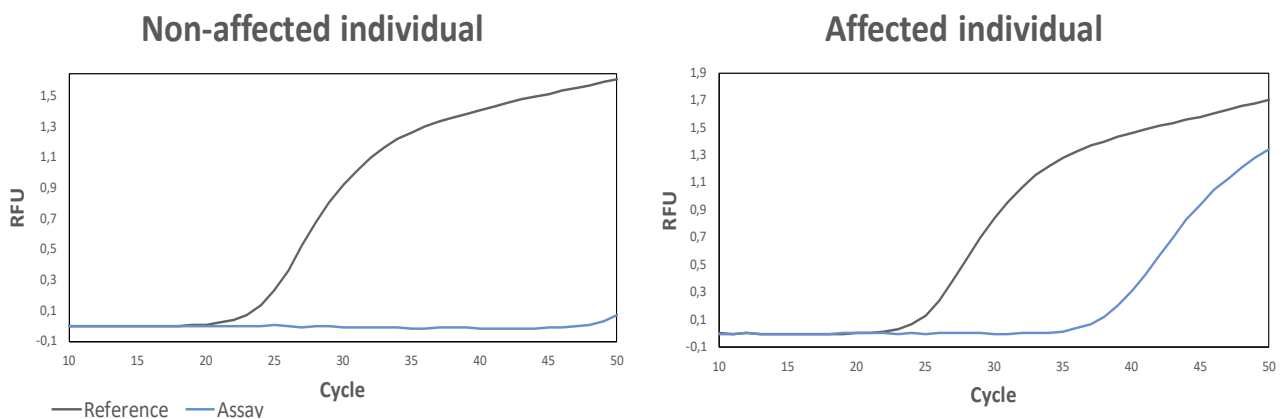
- No false positives
- Applicable in most standard laboratories
- Compatible with different types of DNA purification
- Reliable readout



PlentiPlex™ Mastocytosis

PlentiPlex™ Mastocytosis utilizes PentaBase's proprietary INA® technology for sensitive detection of the *KIT* D816V somatic mutation in mast cells. The technology comprises HydrolEasy™ probes, SuPrimers™ and BaseBlockers™ to improve signal-to-noise ratio, specificity and sensitivity and to suppress wildtype amplification, respectively.

- High sensitivity
- Applicable for large biopsies
- Supplied as pre-dispensed Ready-to-use and Dispense-ready assays
- Quantitative readout



*PlentiPlex™ Mastocytosis readout. Mastocytosis is easily detected utilizing PentaBase's PlentiPlex™ Mastocytosis technology. The reference assay (black curves) amplifies both wild type and mutant DNA, making it an indication of loaded DNA. A non-affected individual (left) gives no signal in the mutant specific assay (blue curves) whereas the *KIT* D816V mutation of an affected individual (right) gives rise to amplification in the mutation specific assay.*

PlentiPlex™ Mastocytosis provides market-leading *KIT*D816V sensitivity

PentaBase

PentaBase is a knowledge-based, ISO-certified real-time PCR focused company from 2006 founded and managed by researchers in Denmark. We have local *in-house* production of custom oligonucleotides based on our own proprietary DNA chemistry, known as Intercalating Nucleic Acid (INA®). We specialize in manufacturing of real-time PCR probes for IVD companies and development of *in vitro* diagnostic assays for real-time PCR with focus on detection of somatic mutations in cancer. For more than 10 years, we have created products for researchers and medical professionals exploring new treatments and helping patients worldwide.

