

PlentiPlex™ Genotyping

Simple and fast evaluation of genetic variations

PentaBase's genotyping assays enable fast and easy SNP detection. PlentiPlex™ Genotyping can be used for evaluation of genetic predispositioning factors affecting response to drugs, training, diet and more. The genotyping technology runs on most standard real-time PCR platforms and is therefore easy to apply to standard laboratory workflows. PentaBase offers a selection of pre-prepared SNP assays as well as developing customized assays on demand.

Easy and flexible three-step workflow Answers within two hours

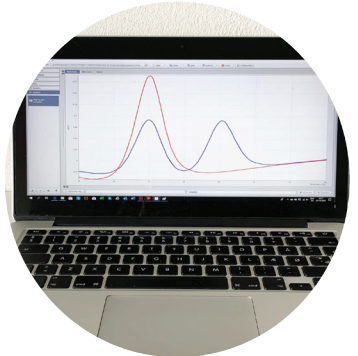
Prepare DNA



Run PCR



Analyse data



PlentiPlex™ Genotyping workflow. Only three fast and easy steps are needed for the SNP analysis utilizing PentaBase's genotyping technology. The entire workflow can be performed within two hours from sample to result. The protocol is very simple and do not require highly trained personnel.

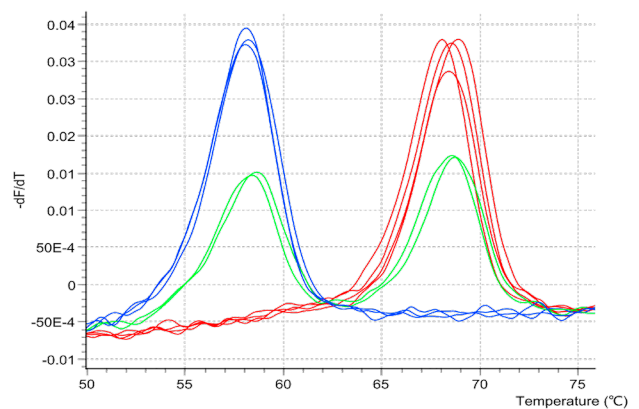
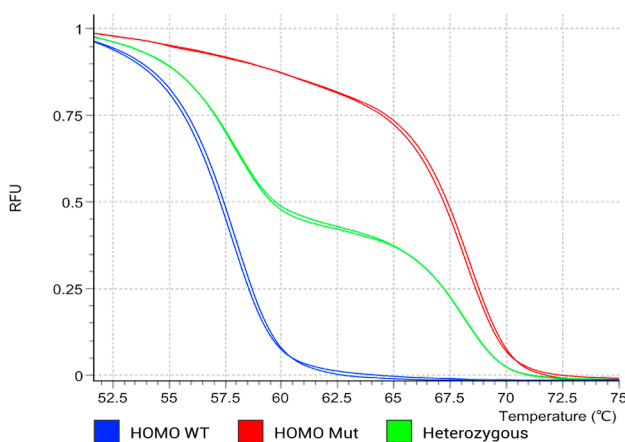
- Clear and reliable readout
- Inexpensive basis for personal counselling
- Offered as a service for fee or as dispense-ready assays
- Less than 10 minutes hands-on time



PlentiPlex™ Genotyping

PlentiPlex™ Genotyping is based on PentaBase's own proprietary INA® technology, making the assays highly specific and sensitive. The technology relies on end-point melt analysis utilizing our special EasyBeacon™ probes with low background fluorescence and high discrimination between genotypes.

- Highly multiplexable assays
- Large Tm differences between genetic variants
- Increased signal-to-noise ratio compared to conventional probes
- Nuclease resistant probes - not hydrolyzed during PCR



PlentiPlex™ Genotyping readout. PentaBase's SNP analysis is both fast and easy due to our highly specific EasyBeacons™, resulting in clear readouts. Additionally, the technology shows high repeatability as several samples with similar genotypes shows identical results in both melt curve (left) and melt peak (right).

Highly specific EasyBeacon™ probes for clear variant discrimination

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.

