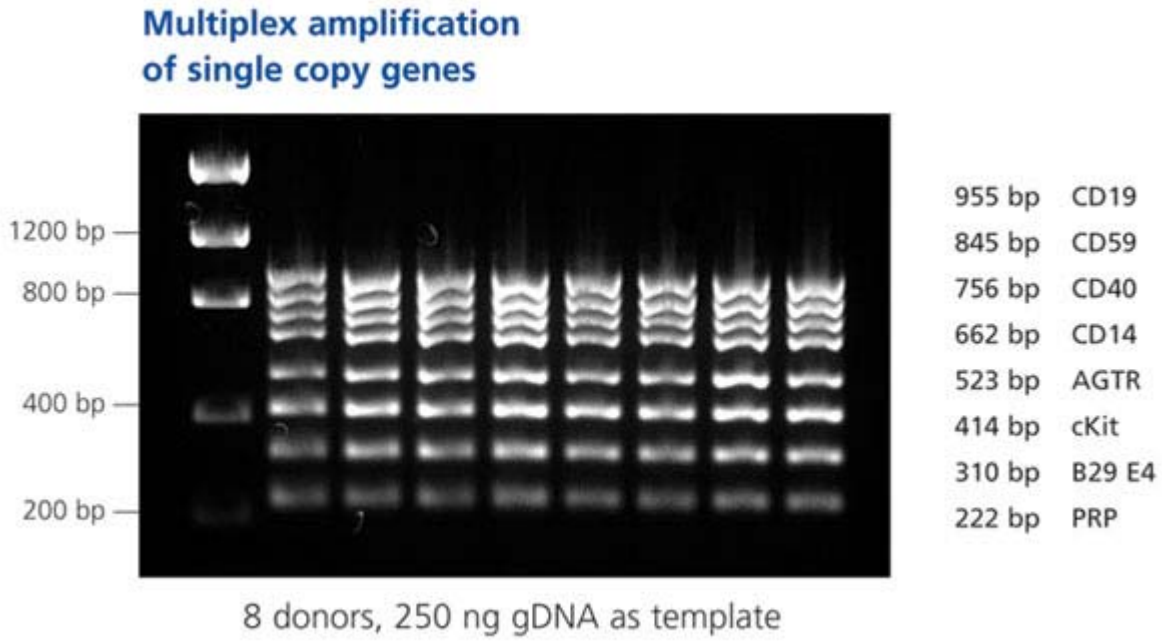
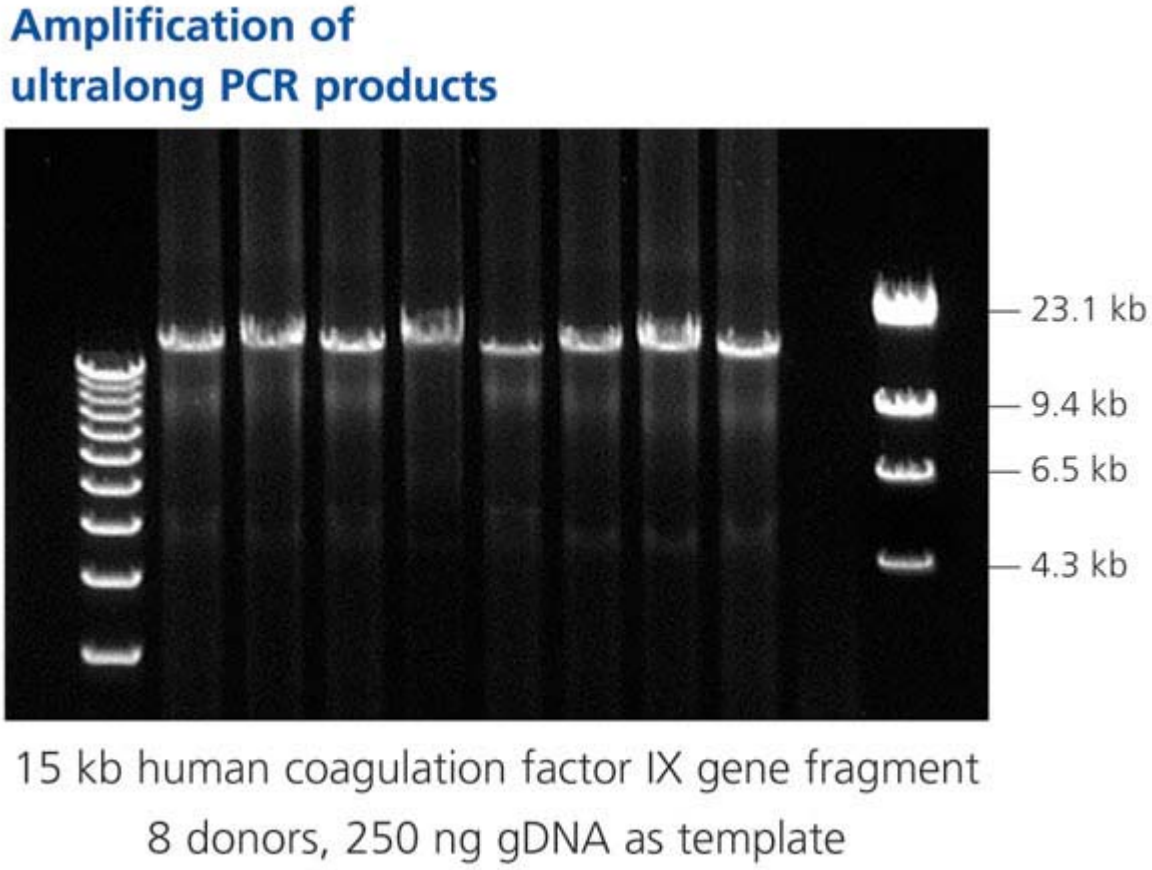
Applications

Optimize Results
Reliable, reproducible results are especially important for clinical research applications such as marker validation, drug development, and epidemiological studies. The ability to store blood samples for weeks or months allows for batch processing, minimizing inter-assay variation. The high purity of the final DNA ensures reliable results in downstream applications.

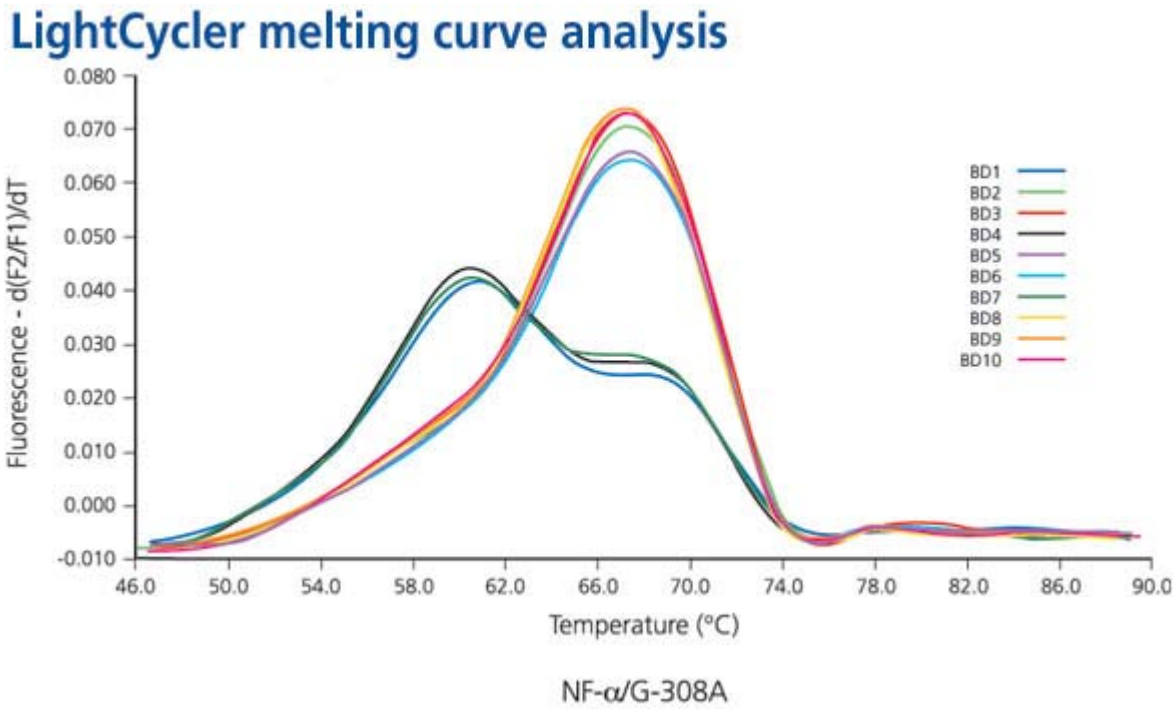


Enhanced PCR Assays
DNA purified using the PAXgene Blood DNA System performs well in a wide range of enzymatic assays including, but not limited to, PCR. The high purity and high molecular weight of the DNA improve results in challenging procedures such as multiplex and long-range PCR.



Reliable SNP genotyping

Single Nucleotide polymorphisms (SNPs) are found approximately every 500-1000 base pairs in the human genome. They are valuable predictive markers in genetic mapping studies and drug development. DNA purified using the PAXgene Blood DNA System is well suited for SNP analysis. It is compatible with commonly used fluorescence-based technologies, such as TaqMan and LightCycler technology, as well as mass spectrometry-based systems. The DNA can also be used in mitochondrial genome analysis.



Data kindly provided by H. Fernandes, UMDNJ, NJ, USA

PreAnalytiX
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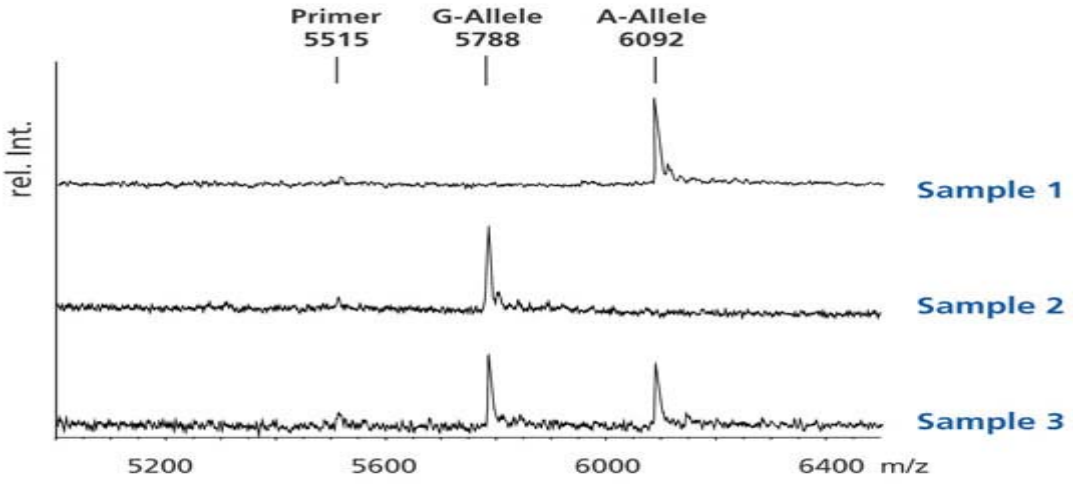
Masscode™ analysis



Cytochrome P450, CYP2C19

Data kindly provided by A. Huminy and C.M. Becker,
Institute for Biochemistry, University of Erlangen, Germany.

PreAnalytiX
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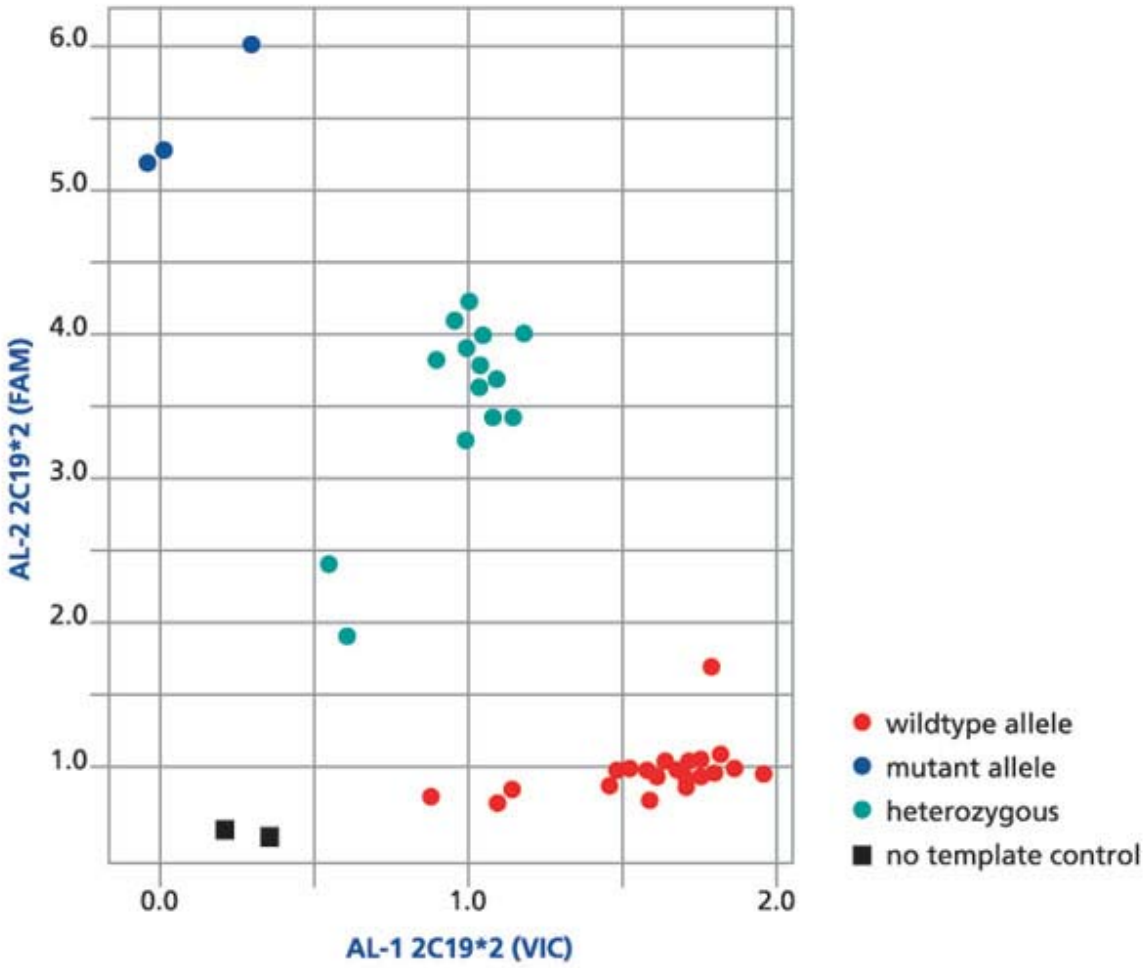
TaqMan analysis



Cytochrome P450, CYP2C19

Data kindly provided by A. Pahl, Institute for Pharmacology, University of Erlangen, Germany.