



The Molecular Diagnostics Laboratory at the Dana-Farber Cancer Institute provides human cell line authentication, microsatellite instability analysis, microRNA expression profiling, and custom services including real-time PCR gene expression studies, CNV analysis, SNP detection, biomarker assays and others. Consultation on experimental design and assistance with data analysis are also available.

#### Available equipment includes:

- ABI 16-capillary 3130xl genetic analyzer
- ABI 7900HT Fast Real-time PCR
- GeneAmp PCR 9700 thermal cyclers
- Agilent 2100 Bioanalyzer



#### Standard Services available:

- **Human Cell Line Authentication**

Short tandem repeat (STR) profiling of 9 polymorphic DNA markers and amelogenin for gender determination

ANSI/ATCC ASN-0002-2011 compliant STR analysis

- **Microsatellite Instability Analysis**

Promega MSI Analysis System v1.2 and custom microsatellite panel fragment analysis

- **microRNA Expression Profiling**

TaqMan real-time PCR-based analysis – aligned with Sanger miRBase v20

Human- 754 mature miRNAs

Rodent- 641 unique mouse, 373 unique rat miRNAs

Sensitive and reproducible to 100 picograms of input RNA

#### Custom Services:

Real-time PCR gene expression studies, copy number variant analysis, SNP detection, biomarker assays, DNA/RNA isolation and others.

#### Contact Information

Core Director: Sig Verselis, PhD

Phone: (617) 632-2115

Email: [sigitas\\_verselis@dfci.harvard.edu](mailto:sigitas_verselis@dfci.harvard.edu)

Lab Location: 21-27 Burlington Ave, Rm. 458, Boston, MA 02215

<http://moleculardiagnosticcore.dana-farber.org/>