

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 profiling analysis

Required for publication in over 30 journals including all AACR, Nature, BioMed Central, Bantham Science, Biotechniques publications and others

Starting January 25, 2016 the National Institutes of Health require all applications to include cell line authentication to receive funding

• Microsatellite Instability Analysis

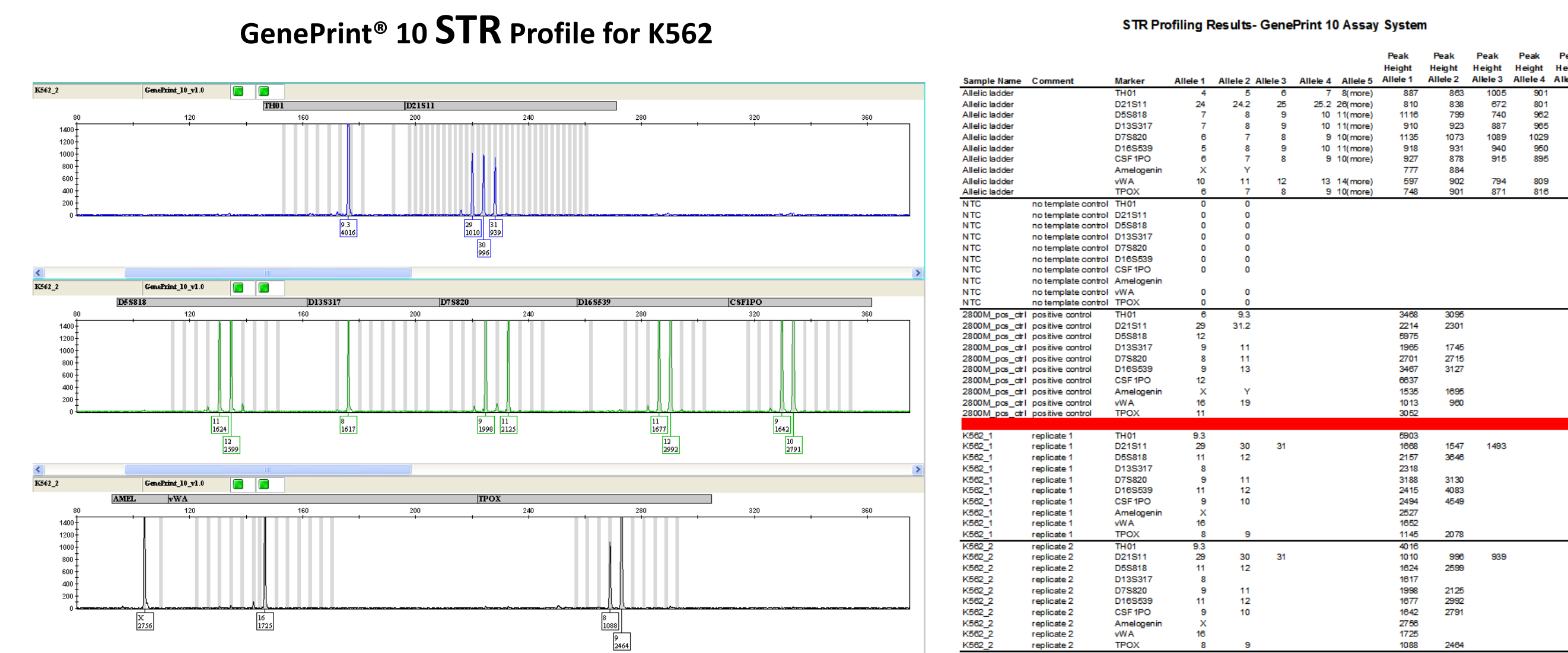
Promega MSI Analysis System v1.2 and custom microsatellite panel fragment analysis

• 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 with validated low RNA protocol.

Custom Services:

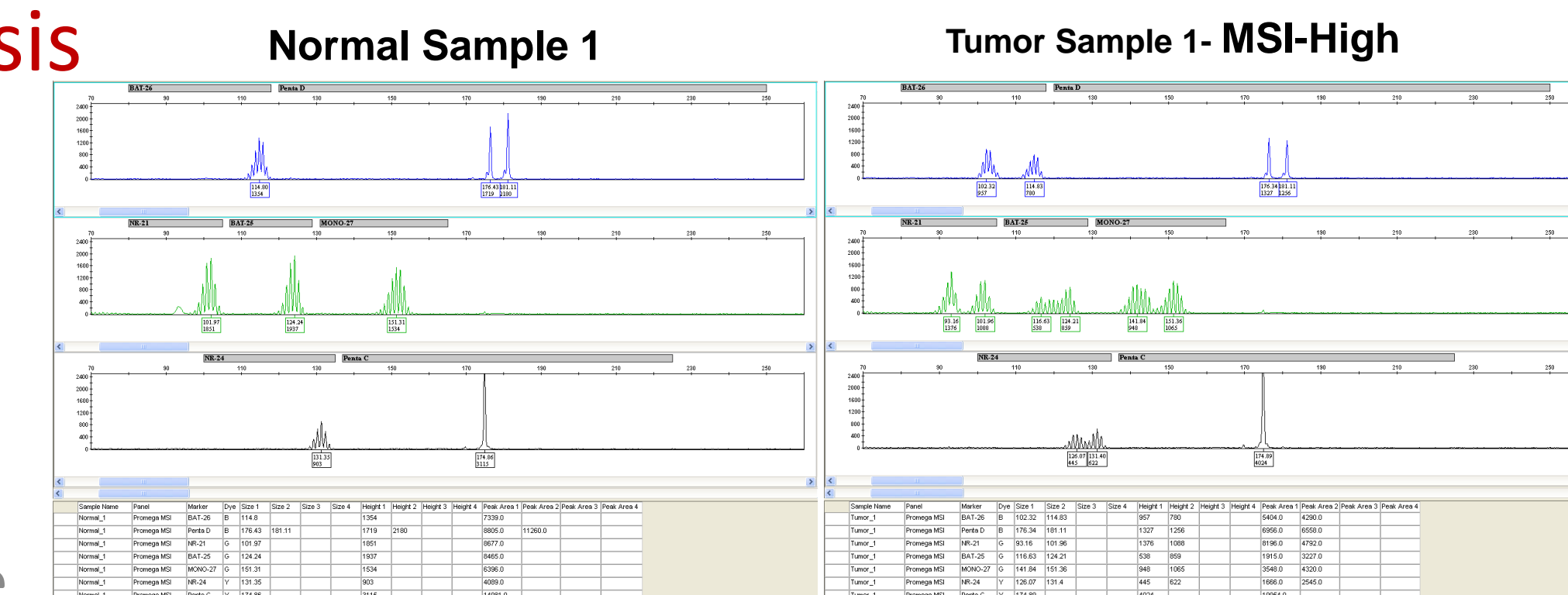
Real-time PCR gene expression, copy number variant analysis, SNP detection, biomarker assays



- Analyses are run in duplicate.
- Fragment analysis on 16-capillary genetic analyzer produces low background for reliable detection of cross-contamination.

MSI Analysis

- Data for five microsatellite loci are assessed.
- NCI Definition of MSI-High: Instability in ≥30-40% of the loci



TaqMan-based RT-qPCR miRNA profiling

- ❑ High Sensitivity
- ❑ High Specificity- can distinguish between highly homologous miRNAs
- ❑ Linear Dynamic Range of up to nine logs
- ❑ High Reproducibility
- ❑ Gold standard for verification of results generated using other platforms

Contact Information

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