

All on one platform

GenomeLab GeXP Genetic Analysis System

SNP Analysis

Now sold through SCIEX Separations
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Allele Identification

- Identify STR Alleles
- SNP Analysis

Figure 1. SNPs may be identified by a combination of size and color allowing alleles to be identified

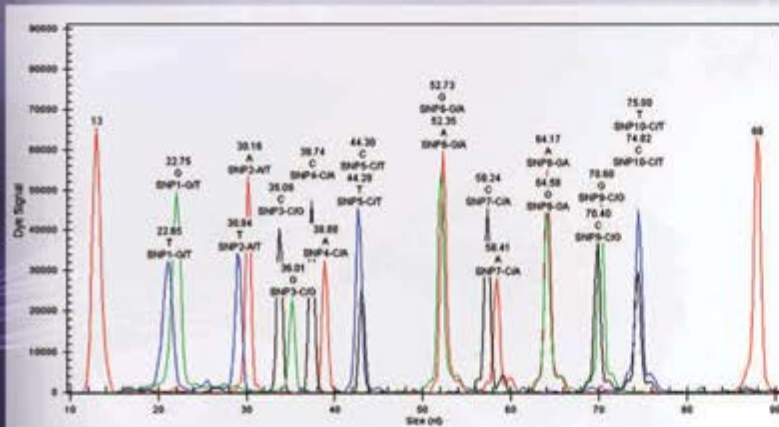


Figure 2. Multiplex SNPs scoring analysis using the GenomeLab SNPStart Primer Extension Kit

Single nucleotide polymorphisms (SNPs) are major contributors to genetic variation, making up approximately 80% of all known polymorphisms. The GenomeLab GeXP provides automated sequencing for SNP discovery and fragment sizing with size/color allele identification for single or multiplexed SNP scoring. The analyzed SNP genotypes are summarized and reported in fragment lists.

SNP Scoring by Primer Extension

The GeXP System allows simultaneous analysis of SNPs at multiple sites of a template (or different templates). The GenomeLab SNPStart Kit provides a fast, simple and ready-to-use solution for scoring DNA sequence variations using Single Base Extension technology (Figure 3).

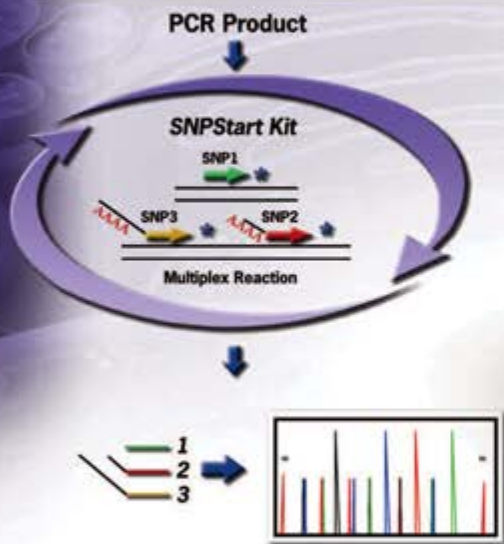


Figure 3. SNP Scoring



GenomeLab SNPStart
Primer Extension Kit



SNP Discovery by Sequencing

Ordering Information

DNA sequencing is the primary method available to discover previously unknown alleles. The GeXP Genetic Analysis System provides an efficient and robust DNA sequencing protocol using dye-terminator cycle sequencing. The sequences of the unknown samples are aligned with the reference sequence and the loci with SNPs are identified (Figure 4).



Figure 4. SNP Discovery



GenomeLab Methods Development Kit

Instruments

- A26572 GenomeLab GeXP Genetic Analysis System, Dual Plate Format
- A62684 GenomeLab GeXP Genetic Analysis System, Single Plate Format

Chemistries and Kits

- GenomeLab SNPStart Primer Extension Kit
- A23201 GenomeLab SNPStart Primer Extension Kit
- GenomeLab Human STR Primer Set
- A20100 GenomeLab Human STR Primer Set
- GenomeLab DNA Size Standard Kit
- 608098 GenomeLab DNA Size Standard Kit – 400
- 608095 GenomeLab DNA Size Standard Kit – 600
- 608395 GenomeLab DNA Size Standard Kit – 80
- GenomeLab Test Sample
- 608105 GenomeLab Fragment Analysis Test Sample
- GenomeLab Methods Development Kit
- 608000 GenomeLab Methods Development Kit



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