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).
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).

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

Figure 4. SNP Discovery

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