The Spectrum Compact CE System, a collaborative development between Promega Corporation and Hitachi High-Technologies Corporation, allows laboratories of all sizes the freedom to carry out single nucleotide polymorphism analysis, PCR sizing and microsatellite analysis, de novo sequencing, NGS validation, and mutation detection. This four-capillary benchtop capillary electrophoresis instrument runs 1-32 samples and features single base resolution and 6-dye detection along with an integrated touch-screen for instrument operation. Reagents are provided in pre-filled cartridges, including a choice of separation polymers that streamline instrument setup and support both fragment analysis and sequencing workflows. To support the sequencing application, Promega has developed the ProDye™ Sequencing System. This is a dideoxy dye-terminator based sequencing chemistry that can be used to generate readable sequences using a variety of templates. In combination with the Spectrum Compact CE System, read lengths of ≥ 600 bases can be obtained with run times of ≤ 32 minutes and ≥ 700 bases with a run time of ≤ 60 minutes. Data will be presented showing sequencing data obtained from a variety of templates using the ProDye™ Sequencing System in combination with the Spectrum Compact CE System.

**Key Words:** Spectrum Compact CE System, ProDye™ Sequencing System, dideoxy terminator sequencing