

Applied Biosystems™

3730xl DNA Analyzer



製品番号: 3730XL

関連する製品群

Capillary Electrophoresis Sequencing & Fragment Analysis

| DNA & Genome Sequence Analysis

| Epigenetic Sequencing Analysis

| Fragment Analysis

| Genotyping & Genomic Profiling

| メチル化分析

サポートについてのお問い合わせ ›

	製品番号(カタログ番号)	容量	標準価格 (JPY)
	3730XL	1 system	お問い合わせください ›

製品詳細

See the latest version of the 3730xl DNA Analyzer ›

The 96-capillary 3730xl DNA Analyzer is the Gold Standard for high throughput genetic analysis. Use this for DNA fragment analysis applications such as microsatellites, AFLP, SNP analysis, mutation detection and traditional DNA sequencing. Get the highest quality data at a low cost per sample.

- Higher optical sensitivity and advanced polymers enable you to obtain higher-quality sequencing data for less.
- Multiple automation features decrease costly human errors.
- Optimized polymers increase your productivity without compromising your results.
- Perform a wide variety of sequencing and fragment analysis applications including resequencing, microsatellite analysis, AFLP, LOH, SSCP, SNP screening and SNP validation.

Large-Scale DNA Analysis on a Small-Scale Budget

By combining advances in automation with innovative optics and proprietary reagents to increase throughput, yield high-quality data, and minimize reagent consumption, the 3730xl Analyzer provides your laboratory and production facility with faster, better, cheaper analysis.

Streamline Your Workflow

The 3730xl DNA Analyzer system is engineered for highly reliable, unattended operation of up to 48 hours (applies to modules with run times longer than 30 minutes). To minimize the need for operator intervention and decrease the risk of human error, automation features include an integrated plate stacker, internal bar code reader, and onboard polymer delivery system.

Increase Productivity

The high signal-to-noise ratio ensures you get high-quality data – even when you use low-concentration samples and reagents. Labor-saving automation features minimize hands-on time and enable you to analyze more data more efficiently.

Get the Highest-Quality Sequencing and Genotyping Data

The enhanced optical design provides a higher signal-to-noise ratio and a more uniform signal profile across the array. This design, combined with our new, advanced polymer, enables the longest read lengths of any available system, and provides enhanced color balance for streamlined genotyping sample handling. In addition, exceptional sensitivity enables higher success rates across a wide range of sample template types and concentrations.

仕様

Capacity:	16 sample plates (96-well or 384-well)
Capillary Length:	36 cm or 50 cm
Compatible Polymers:	POP Conformational Analysis Polymer, POP-7
Dimensions:	100 cm (W) x 73 cm (D) x 89 cm (H)
External Computer:	Computer and Flat Panel Monitor
For Use With (Equipment):	3730xl DNA Analyzer
Format:	384-well plate, 96-well plate
High Throughput Compatibility:	High Throughput-Compatible
Memory:	1 GB 400MHz RAM
Number of Capillaries:	96 Capillaries
Operating Environment:	Humidity: 20%-80% (non-condensing), Temperature: 18°C-30°C
Operating System:	Microsoft Windows 7
Optics:	Backside-thinned CCD for maximum optical sensitivity, In-capillary detection by dual-side illumination, Multiple Filter Sets: Z, E, G5, G5-RCT, Any4Dyeset, Any5Dyeset and S (optional)

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One Instrument, Multiple Applications

With the 3730xl DNA Analyzer, you get the highest-quality data from a wide array of applications. In addition to being ideal for high-throughput sequencing, the analyzer's optimized application assays, instrument, and analysis software also provide a complete solution for genotyping and resequencing.

Integrated Data Analysis Tools Reduce Time-to-Results

The 3730xl DNA Analyzer software suite allows you to generate more meaningful data with less work. This system's labor-saving software suite includes:

- Data Collection (supplied with the instrument) – Manages your instrument setup, controls instrument operations, allows real-time data visualization, and performs diagnostics.
- Sequencing Analysis Software – Designed to base-call; assign quality values; trim, display, edit and print DNA sequencing data using the KB basecaller
- Seqscape® – Provides everything you need to perform resequencing applications such as VariantSeqr™ Resequencing System
- GeneMapper® – Enables configurable, automated allele calling; a plus for high-throughput genotyping and includes tools for SNPlex™ data analysis

New features include:

- Auto-analysis with GeneMapper® and SeqScape®
- Flexibility to use any choice in dye set option
- Tools to assist with regulatory and compliance requirements (In the United States, this assists with FDA 21CFR part 11).
- Additional optimized run modules covering more applications
- Support for fragment analysis applications on the 96-capillary array

The instrument comes with a one year limited warranty on parts and labor.

For Research Use Only. Not for use in diagnostics procedures.

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Performance:	FastSeq: 50cm - 700 QV20 bases/1 hour, GeneMapper® Software: 36cm - up to 500 bp res. w/ 0.15 bp sizing precision in 34 min, LongSeq: 50cm - 850 QV20 bases/2 hours, RapidSeq: 36cm - 550 QV20 bases/36 min, StdSeq: 36cm - 700 QV20 bases/1 hour, XLRseq: 50cm - 900 QV20 bases/3 hours
Plan Duration:	1 Year Limited Warranty on Parts and Labor
Plate Handling:	Integrated auto sampler and plate stacker, Internal bar code reader, Plate Seal: Automatic on-board piercing (septa or polypropylene heat seal)
Polymer	36 cm: 200µl/run, 50 cm: 250µl/run
Consumption:	
Power	Current: 15 amps max. Requires 30 amp receptacle
Requirements:	w/in 3 m (10 ft) of instrument back., Power Dissipated: About 2000 watts, Voltage: 200-220 V or 230-240 V ±10%
Product Size:	1 system
Read Length:	400 - 900 bases (varies depending on run module)
Reagent	Automated polymer replenishment pump for increased throughput, On-board reagents for up to 48 hrs
Handling:	unattended operation (with certain run modules), Run modules: 5 sequencing, 1 fragment analysis and optional SNPlex™
Sample	10-50 µL for 96-well plate, 5-30 µL for 384-well plate
Volume:	
Temperature	Temperature-controlled oven (18-70°C range) and
Range (Metric):	detection cell heater
Throughput:	FastSeq: 2304 samples/day (1600 Kbases), GeneMapper® Software: 4224 samples per day (92,000 genotypes), LongSeq: 1152 samples/day (980 Kbases), RapidSeq: 3840 samples per day (2100 Kbases), StdSeq: 2304 samples/day (1550 Kbases), XLRseq: 768 samples per day (690 Kbases)
Weight:	180 kg (computer - 30 kg)

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組成及び保管温度

This system includes a 96 capillary instrument, a new computer with Windows, data collection software, choice of one analysis software package, and chemistry kit.

参考資料

製品関連文献

- Application Notes & Tutorials: A Workflow for Obtaining High Quality Sequencing Data from Bacterial Artificial Chromosome (BAC) DNA (English)
- Applied Biosystems® Genetic Analyzers
- Specification Sheet: Applied Biosystems 3730xl DNA Analyzer (Chinese)

マニュアル及びプロトコル

Getting Started Guide: Applied Biosystems 3730/3730xl DNA Analyzer (English)

Manual: 3130 Series System Microsatellite Analysis(Japanese)

Manual: 3730/3730xl TargetSeq Resequencing System Upgrade User Bulletin(Japanese)

Manual: Applied Biosystems 3730/3730xl DNA Analyzer User Bulletin (Japanese)

Manual: Gene Analysis Application Guide (Japanese)

Manual: GeneMapper Software version 3.7 User's Guide(Japanese)

Manual: GeneMapper Software v4.0 AFLP analysis Getting Started Guide(Japanese)

Manual: GeneMapper Software v4.0 LOH analysis Getting Started Guide(Japanese)

Manual: GeneMapper Software v4.0 Microsatellite analysis Getting Started Guide(Japanese)

Manual: GeneMapper Software v4.0 SNaPshot analysis Getting Started Guide(Japanese)

Manual: TargetSeq™ Resequencing System: Applied Biosystems 3730/3730xl DNA Analyzer: User Bulletin: Rev C (English)

Quick Ref: BigDye® Terminator v3.1/v1.1 (Japanese)

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COA(Certificates of analysis)

COAを検索:

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検索できませんでしたか？ COAを依頼する

FAQ(よくある質問と答え)

After my run finished on the Applied Biosystems 3730/3730xl DNA Analyzer, I don't see any data files. Where is my data?

▶ Answer

Are bubbles in the "Water Trap" of the 3130 or 3730 systems acceptable?

▶ Answer

Can I connect the Applied Biosystems 3730/3730xl DNA Analyzer computer to my network?

▶ Answer

Can I purchase a computer from you or someone else and install the Applied Biosystems 3730/3730xl DNA Analyzer software myself?

▶ Answer

Can I re-install the Applied Biosystems 3730/3730xl DNA Analyzer Data Collection Software myself?

▶ Answer

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推奨製品

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3730x/ DNA Analyzer 96-Capillary Array, 50 cm		3730/3730x/ DNA Analyzer Sequencing Standards, BigDye™ Terminator v3.1	
製品番号:	4331246	製品番号:	4336943
サイズ	1 array	サイズ	1 kit
標準価格	JPY 829,000	標準価格	JPY 167,000
お問い合わせください		お問い合わせください	
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