

# No one else offers the full sequence.



## ABI PRISM® 310 Genetic Analyzer

Affordable, versatile single-capillary analyzer for academic and forensic labs who incorporate genetic analysis into their work.



## Applied Biosystems 3130 Genetic Analyzer

A flexible solution that provides sophisticated automation and superior performance, at acquisition and operating costs tailored to a growing research lab. Upgradable to 16 capillaries whenever you are ready.



## Applied Biosystems 3130xL Genetic Analyzer

Offering 16-capillary throughput, advanced automation capabilities and superior performance, this system is ideal for medium-throughput laboratories that need streamlined set-up and 24-hour unattended operation.



## Applied Biosystems 3730 DNA Analyzer

High-throughput 48-capillary analyzer dramatically increases productivity, while providing application flexibility and significantly lower project costs. Easily upgradable to 96 capillaries.



## Applied Biosystems 3730xL DNA Analyzer

Unparalleled market leader for high throughput genetic analysis, providing ever increasing application support, while offering reliable, round-the-clock operation and lower project costs.

**Key applications:** *De novo* sequencing • Resequencing • Mutation/heterozygote detection  
SNP genotyping • Relative fluorescent quantitation • Microsatellite analysis • AFLP® analysis  
Methylation analysis • T-RFLP analysis • MLST • BAC fingerprinting • SAGE™

Applied Biosystems equips all of its genetic analyzers with the same proven capillary electrophoresis technology, application-specific software, industry-leading BigDye® Terminator chemistry, and world-class support. Whether you need a single-capillary system for a few reactions a day, or a multicapillary system for a few million, AB has your needs covered. And with AB's value-added upgrade program, you won't lose a beat when you decide to increase your throughput. To get more information on AB genetic analyzers and promotional pricing, visit <http://info.appliedbiosystems.com>, call **1.877.287.5700**, or contact your local sales representative.

# Applied Biosystems Genetic Analyzers at a glance.

Specifications	ABI PRISM® 310 Genetic Analyzer	Applied Biosystems 3130 and 3130x/ Genetic Analyzers	Applied Biosystems 3730 and 3730x/ DNA Analyzers
Number of Capillaries	1	4:3130 (can upgrade to 16) 16: 3130x/	48:3730 (can upgrade to 96) 96: 3730x/
Capillary Array Length (cm)	47, 61	22, 36, 50, 80	36, 50
Polymer Type	POP-4™, POP-6™	POP-4™, POP-6™, POP-7™	POP-7™
Sample Capacity	48 and 96 sample tubes	96- and 384-well microtiter plates	96- and 384-well microtiter plates
Sequencing Reagents	BigDye® Terminator Kits dRhodamine Dye Terminator Kit	BigDye® Terminator Kits dRhodamine Dye Terminator Kit	BigDye® Terminator v1.1 BigDye® Terminator v3.1
Genotyping Reagents	SNaPshot® Multiplex Kit Linkage Mapping Set v2.5 GeneScan™ Size Standards	SNPlex Genotyping System* SNaPshot® Multiplex Kit Linkage Mapping Set v2.5 GeneScan™ Size Standards	SNPlex Genotyping System* SNaPshot® Multiplex Kit Linkage Mapping Set v2.5 GeneScan™ Size Standards
Integrated Plate Stacker			Houses 16 sample plates (96-well and 384-well format)
Sequencing Software	Sequencing Analysis Software, SeqScape® Software, Sequence Scanner Software		
Fragment Analysis Software	GeneMapper™ Software		
Service and Warranty	One-year limited warranty on parts and labor		

Performance Specifications	ABI PRISM® 310 Genetic Analyzer				
Selected Applications	Capillary	Polymer	Runs/Day	Length of Read (LOR)**	Throughput (per 24 hrs)
Standard Sequencing	61 cm	POP-6™	9	600	5,220 bases
Rapid Sequencing	47 cm	POP-4™	38	425	14,985 bases
DNA Sizing	47 cm	POP-4™	48	250 Single base detection up to 250 bases with 0.15 SD	4-dye: 720 genotypes 5-dye: 960 genotypes

Performance Specifications	Applied Biosystems 3130 and 3130x/ Genetic Analyzers				3130	3130x/
Selected Applications	Capillary	Polymer	Runs/Day	LOR**	Throughput (per 24 hrs)	
Ultra Rapid Sequencing	36 cm	POP-7™	41	500	82,000 bases	328,000 bases
Long Read Sequencing	80 cm	POP-7™	8	950	30,400 bases	121,600 bases
DNA Sizing	22 cm	POP-4™	72	400 Single base detection up to 400 bases with 0.15 SD	4-dye: 4,320 genotypes 5-dye: 5,760 genotypes	4-dye: 17,280 genotypes 5-dye: 23,040 genotypes

Performance Specifications	Applied Biosystems 3730 and 3730x/ DNA Analyzers				3730	3730x/
Selected Applications	Capillary	Runs/Day	ABI Basecaller Phred Q <sub>20</sub> Bases per Read	LOR**	KB Basecaller Q <sub>20</sub> Bases per Day	
TargetSeq™ Resequencing	36 cm	72	400	400	1,440,000 bases	2,880,000 bases
Rapid Sequencing	36 cm	40	500	550	1,056,000 bases	2,112,000 bases
Standard Sequencing	36 cm	24	650	700	806,400 bases	1,612,800 bases
Extra Long Read Sequencing	50 cm	8	>800	900	345,600 bases	691,200 bases
DNA Sizing	36 cm	44	Single base resolution up to 500 bases with 0.15 SD		42,254*** genotypes	84,508*** genotypes

\*SNPlex is not supported on the 310 or 3130 platform. \*\* Length of read with 98.5% basecalling accuracy, less than 2% N's, using pGEM-32f(+) as template.

\*\*\* Assumes 20 genotypes per sample.

Please refer to product specification sheets for detailed run module information.



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Printed in the USA 06/2006. Publication #106BR12-02

