

Affymetrix® SNP 6 Core Reagent Kit

Convenience without compromise



The SNP 6 Core Reagent Kit offers convenience and reliable performance for genotyping and copy number variation studies utilizing the Affymetrix® Genome-Wide Human SNP Array 6.0.

Now you can order everything you need for the entire SNP Array 6.0 workflow from just three vendors.

In addition, the kit utilizes ecologically friendly pouches instead of boxes, saving you space and reducing waste.

Kit components

The SNP 6 Core Reagent Kit includes:

- Reagents for the entire workflow, from digest to scan
- Enzymes from New England Biolabs: T4 DNA ligase, Sty I and Nsp I restriction enzymes, and associated buffers

- Hybridization buffer master mixes made with reagents from key suppliers such as Pierce, Invitrogen (Life Technologies), Sigma, and Promega
- Stain cocktails made with dyes from Molecular Probes (Life Technologies)

Features and benefits

- Easy to order – Order from three suppliers instead of 14
- Ready to use – Begin your studies now and stop making buffers
- Single kit expiration date – Manage inventory with ease; all components meet the kit expiration date
- Extended shelf life – Stock up with without worrying about short expiration dates
- High-quality data – Have confidence in our validation data; evaluate performance metrics achieved in our copy number and genotyping studies
- Guaranteed performance – Trust the kit to perform to Affymetrix specifications on all supported sample types

Validated performance

For validation, the Affymetrix training plate was used (44 HapMap samples and reference 103 DNA control). Samples were processed according to the *Genome-Wide Human SNP Nsp/Sty 6.0 User Guide*, and default settings were used for all data analysis. The data were analyzed using the Birdseed v.2 algorithm as implemented in Affymetrix® Genotyping Console™ Software.

The kit's performance met or exceeded all published manufacturing specifications for the assay when used in Affymetrix labs and customer test sites.

Figure 1: The SNP 6 Core Reagent Kit's optimized workflow.

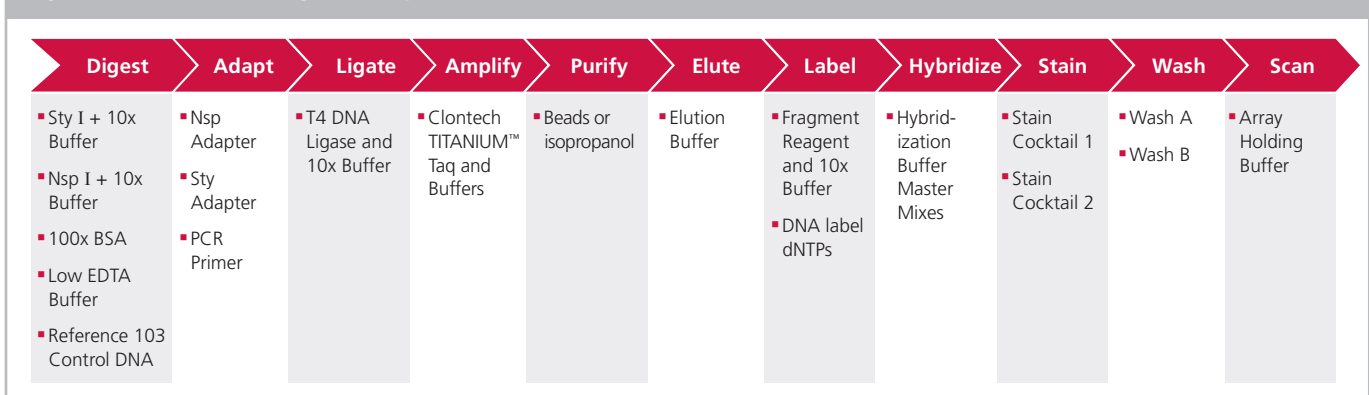


Table 1: Comparison of performance specifications between Genome-Wide Human SNP Nsp/Sty Assay Kit 6.0 using AMPure XP beads for post-PCR cleanup and the SNP 6 Core Reagent Kit.

Metric	Specification	Current kit	NEW SNP 6 Core Reagent Kit
Pass rate (cQC >0.4)	>95%	99.73%	99.73%
Avg. cQC	1.7	3.0	2.8
Average Birdseed call rate	>99%	99.73%	99.69%
Samples with call rate above 98%	>95%	100%	100%
Average concordance to HapMap	>99.5%	99.79%	99.84%
Samples with HapMap concordance >99%	>99.5%	97.87%	100%
Average concordance to control	>99%	N/A	99.80%
Samples with control concordance >99%	>99%	N/A	97.87%
Reproducibility	>99.5%	99.78%	99.96%
Average MAPD (to Affymetrix reference set)	<0.35	0.282	0.28

Ordering information

Part number	Product	Description
901706	Affymetrix® SNP 6 Core Reagent Kit	Sufficient for 100 samples
901150	Affymetrix® Genome-Wide Human SNP Array 6.0	Sufficient for 100 samples

Required products

Part number	Product	Description
639240	Affymetrix® SNP 6 Core Reagent Kit	Sufficient for 100 samples
639243	Clontech TITANIUM™ Taq Buffers and dNTPs (available from Clontech, www.clontech.com)	
71786	USB® Molecular Biology Grade Water (available from Affymetrix)	Sufficient for 100 samples
For post-PCR cleanup		
Using beads		
A63882	Agencourt® AMPure® XP beads (available from Beckman, www.beckmangenomics.com)	
Using isopropanol		
901409	USB® Ammonium Acetate 7.5M (available from Affymetrix)	Sufficient for 100 samples
15694	USB® 0.5M EDTA pH=8.0 (available from Affymetrix)	Sufficient for 100 samples

Note: EtOH and isopropanol are also required and can be ordered from vendors such as Sigma, Fisher Scientific, or VWR.

Affymetrix, Inc. Tel: +1-888-362-2447 ■ Affymetrix UK Ltd. Tel: +44-(0)-1628-552550 ■ Affymetrix Japan K.K. Tel: +81-(0)3-6430-4020
Panomics Products Tel: +1-877-PANOMICS www.panomics.com ■ USB Products Tel: +1-800-321-9322 www.usb.affymetrix.com

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P/N 00164 Rev 1
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