



Pharmacogenomics Solutions

What if PGx had no limits?

Imagine a world in which pharmacogenomics research is faster, more flexible and more powerful – without being restricted by multiple workflows or costly, time-consuming processes.

What if you could ...

- Perform single-nucleotide polymorphism, copy number variation and tandem repeat assays in a single qPCR workflow?
- Get results in half the time?
- 100% coverage of AMP Tier 1 *CYP2D6* targets, including difficult-to-detect star alleles such as *29?



Why choose the Advanta Pharmacogenomics Assay?

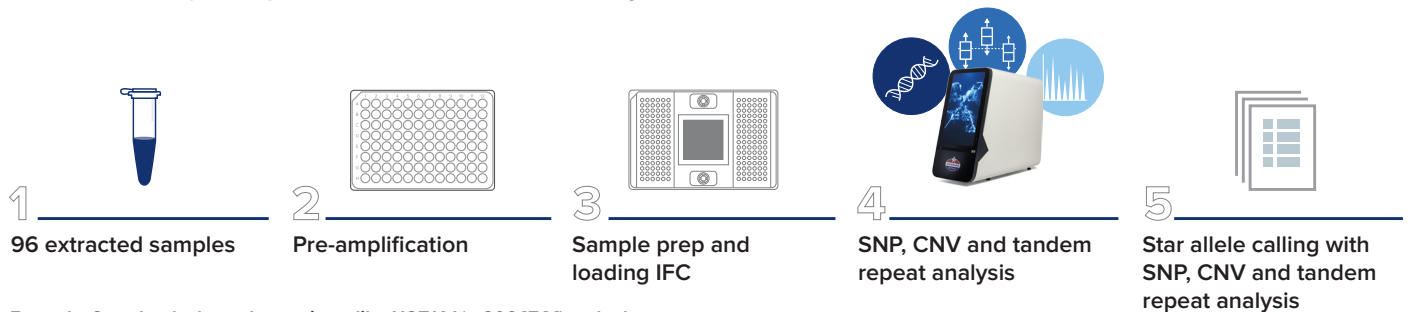
One workflow for everything

Perform SNP, CNV and tandem repeat analysis in a single, integrated qPCR workflow.

Conventional pharmacogenomics research workflows require different systems – such as qPCR for genotyping and copy number variation, and capillary electrophoresis for performing tandem repeats – which leads to increased costs, extended turnaround times and a higher potential for errors.

In contrast, the Advanta™ PGx solution consolidates these complex workflows into a single, automated system that significantly reduces hands-on time and improves data accuracy, delivering faster and reliable results.

The Biomark™ system provides one workflow, one system

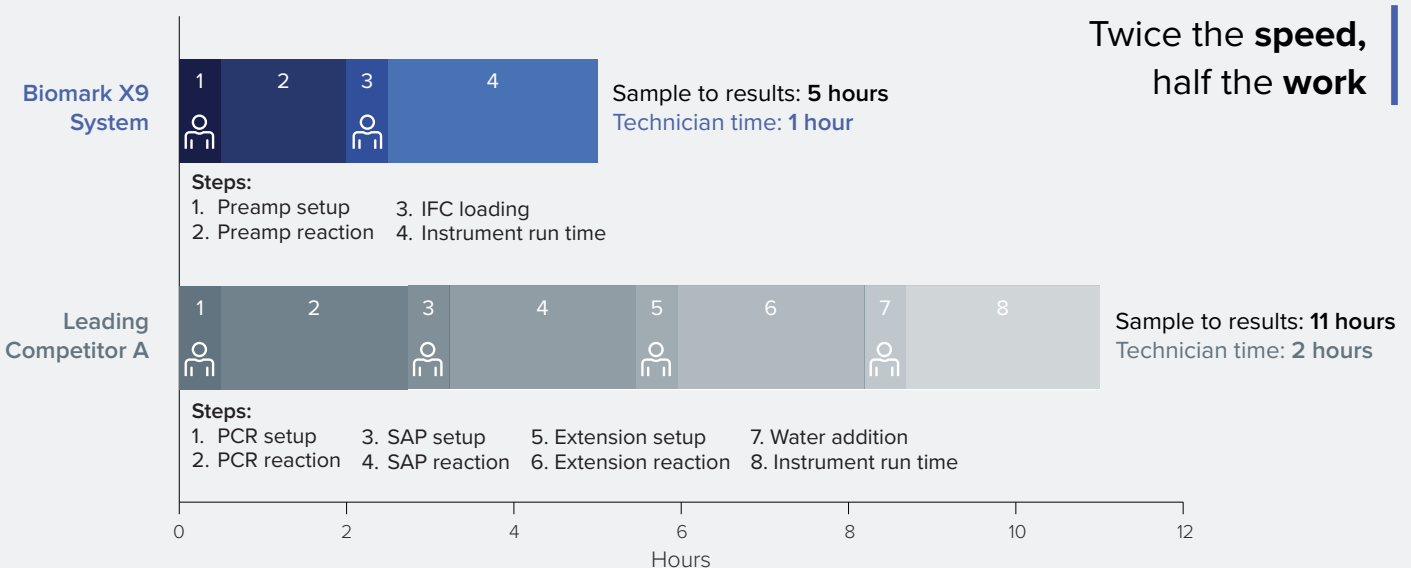


Comprehensive *CYP2D6* detection

We provide 100% AMP Tier 1 *CYP2D6* coverage, detecting star alleles like *29 with unmatched precision.

Operational efficiency

With 1.6x lower sample requirements, your lab saves on reagents and costs while maximizing throughput.



* Source: AZClinCore



Advanta PGx Core Panel

Core Panel Coverage

- Targets variants in 17 genes implicated in drug metabolism pathways
- Covers 71 SNPs/indels, three CNV markers and RNase P (control)

List of genes included in our assay

Genes	SNP	CNV	Genes	SNP	CNV
CYP2D6	24	3	F5	1	
CYP2C9	11		ABCB1	1	
CYP2C19	10		OPRM1	1	
CYP1A2	5		COMT	1	
CYP3A5	4		VKORC1	1	
CYP3A4	3		DRD2	1	
APOE	2		F2	1	
MTFHR	2		RNASE P		1
CYP2B6	2		Total	71	4
SLCO1B1	1				

Star Allele Calls

Genes	Alleles
CYP2D6	*1, *2, *3, *4, *6, *7, *8, *9, *10, *11, *12, *14, *17, *19, *21, *30, *31, *34, *39, *40, *41, *42, *49, *56, *58, *59, *64, *65, *69, *104, *114, *119, *145, *147
CYP2C9	*1, *2, *3, *4, *5, *6, *8, *11, *12, *13, *15, *27
CYP2C19	*1, *2, *3, *4, *5, *6, *7, *9, *10, *17, *35
CYP3A4	*1, *2, *17, *22
CYP3A5	*1, *3, *3.010, *6, *7
CYP2B6	*1, *9, *18
SLCO1B1	*1, *5
VKORC1	*1, *2

Disclaimer: While Advanta PGx Software provides a wide range of star alleles, please note that certain alleles may not be included in the current version. We are committed to continuous improvement and are actively working on future updates to expand our coverage, ensuring that our solutions meet the evolving needs of pharmacogenomics research.

Tailor your panel with custom assays targeting tandem repeats, star alleles and specific gene variants.

Create a panel that meets your research needs, whether focused on drug response or rare variant detection.

Gene/Star Allele	Defining Variant rsIDs	Gene/Star Allele	Defining Variant rsIDs
NUDT15*2	rs746071566	UGT1A1*36	rs3064744
NUDT15*6	rs746071566	UGT1A1*37	rs3064744
NUDT15*9	rs746071566	CYP3A4*20	rs67666821
UGT1A1*1	rs3064744	CYP2D6*29	rs72549352
UGT1A1*28	rs3064744		

The above genes are available via our D3 platform

Why choose our PGx solutions?

All-in-one flexibility

Whether using the predefined panel or designing a custom solution, our platform handles it all in a single workflow.

Future-proof your lab

Easily adapt to new guidelines, regulations and research needs by adding or modifying assays as required and leveraging the flexibility of our platform.

Comprehensive insights

With the most accurate and comprehensive detection of critical variants like CYP2D6, UGT1A1 and NUDT15, no other platform offers such precise pharmacogenomic insights in a single run.

Order custom panels in just three steps:



Unlock the power of PGx without limits

Ready to revolutionize your pharmacogenomic research? [Contact us \(standardbio.com/about/contactus\)](https://standardbio.com/about/contactus) today for a consultation and discover how the Advanta PGx Assay can help your lab achieve more with less.

Talk to our [Assay Design Group \(standardbio.com/services/tools/d3-assay-design\)](https://standardbio.com/services/tools/d3-assay-design) today to help you with purchasing predefined panels or designing your own panel.

Contact us at standardbio.com

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