

When the difference  
isn't obvious, try our  
genotyping tools

# Reliable genotyping tools to solve your biomedical questions

Small differences in our genetic and microbial makeup have a big impact on our lives. But what's the most reliable way to detect these differences? Whether you're working towards the next breakthrough in cancer, microbiology or

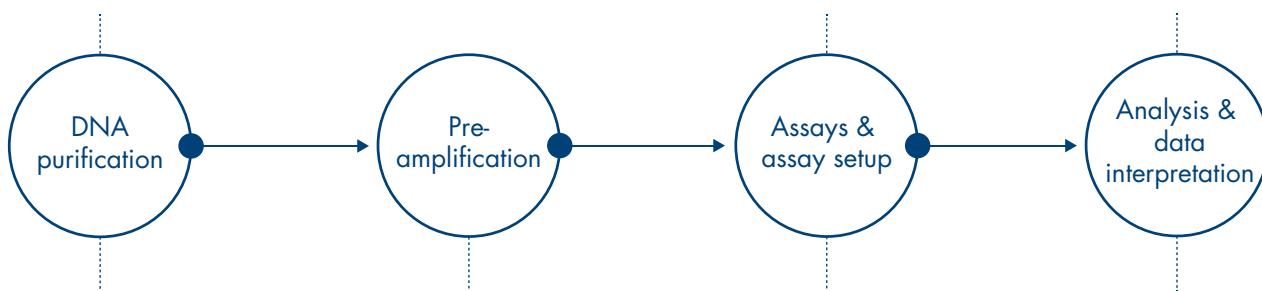
neurodegenerative disease research (Table 1), we can offer you a robust genotyping workflow to help you detect life-changing genetic differences and ensure your experiments succeed from the start.

## Automated solutions

- EZ1® Advanced XL
- QIASymphony® SP/AS
- QIAcube®
- QIAcube HT
- QIAxpert®

- QIAgility®
- QIASymphony SP/AS

- QIAxcel® Advanced
- Rotor-Gene® Q
- PyroMark Q24 Advanced
- PyroMark Q48 Autoprep



- QIAamp® DNA Blood Mini Kit
- QIAamp DNA FFPE Tissue Kit
- QIAamp DNA Mini Kit
- QIAamp DNA Micro Kit
- QIAamp Fast DNA Tissue Kit
- QIAamp MinElute ccfDNA Kit
- EZ1 ccfDNA Kit

- REPLI-g® Mini/Midi Kit
- REPLI-g Ultra Fast Mini Kit
- REPLI-g Screening Kit
- REPLI-g FFPE Kit

- PyroMark® Reagents
- AllTaq® Master Mix Kit
- AllTaq PCR Core Kit
- QIAGEN® Multiplex Kits
- QIAGEN Multiplex Plus Kits
- Type-it® Microsatellite
- Type-it Fast SNP Probe PCR Kit

- IPA®
- GeneGlobe® Data Analysis Center

- QIAamp DNA Microbiome Kit
- QIAamp UCP Pathogen Mini Kit
- QIAamp DNA Fast Stool Mini Kit

- qBiomarker® PreAmp Synthesis Kit

- QuantiNova® Probe PCR Kit
- QuantiNova SYBR Green PCR Kit
- QuantiNova Multiplex PCR Kit

## Kits and reagents

- qBiomarker Somatic Mutation PCR Arrays
- qBiomarker Copy Number PCR Assays
- qBiomarker Somatic Mutation PCR Assays
- Microbial DNA qPCR Assays/Arrays
- QuantiFast® Pathogen + IC Kit

# Supporting your genotyping research from Sample to Insight

Our integrated genotyping workflow offers high-quality sample purification, precise detection and quantification of gene targets, and intuitive applications to interpret the meaning of your data. Combining these robust tools with our automated solutions helps you gain valuable insights at first attempt, saving time and costs.

Whether you are using end-point PCR, real-time PCR or sequencing-based detection methods,\* our workflow is the “one-stop solution” for all your genotyping needs. With easy and fast handling, optimized kits and reagents, integrated control features and the choice of verified protocols, you get reliable results from any sample material using any detection technology.

The genotyping workflow offers:

- Success at first attempt with seamless and cost-effective workflow solutions
- Reliable and reproducible results using streamlined and easy-to-use methods
- Time and cost savings with our robust and automated technologies
- Full support from our highly trained technical service and 24/7 online support options

\* We offer a broad portfolio for NGS-based genotyping. To find out more, please visit [www.qiagen.com/NGS-based-genotyping](http://www.qiagen.com/NGS-based-genotyping).

Table 1. Frequently tested disease-associated genes

	Disease	Gene
<b>Cancer<sup>†</sup></b>	Breast, lung, ovarian	EGFR
	Colon, liver, lung, myeloid, ovarian	KRAS
	Breast, liver, lung, ovarian, prostate	CDKN2A
	Breast, colon, gastric, liver, lung, ovarian, prostate	PIK3CA
	Breast, gastric, ovarian	BRCA1/BRCA2
<b>Neurodegenerative diseases</b>	Alzheimer's	ApoE4 , APP, PSEN1 and 2
	Parkinson's	SNCA, PARK2
<b>Microbiology<sup>‡</sup></b>	EHEC	stx1, stx2, eae, ipaH
	MRSA	mecA, mecC, PVL
<b>Inherited disease</b>	Nemaline myopathy	NEB, ACTA1
	Myofibrillar myopathy	DES, MYOT, LDB3
	Cystic fibrosis	CFTR
	Fragile X Syndrome	FMR1
	Tay-Sachs	HEXA

<sup>†</sup> For a more comprehensive list of genes frequently associated with a variety of cancers, please see [www.qiagen.com/genetic-variance-in-cancer](http://www.qiagen.com/genetic-variance-in-cancer).

<sup>‡</sup> For a more comprehensive overview of antibiotic-resistance genes, please see [www.qiagen.com/antibiotic-resistance](http://www.qiagen.com/antibiotic-resistance).



Thousands of scientists have discovered the power of QIAGEN's genotyping workflow solutions. Join them on the road to success at:  
[www.qiagen.com/genotyping-workflow](http://www.qiagen.com/genotyping-workflow)

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at [www.qiagen.com](http://www.qiagen.com) or can be requested from QIAGEN Technical Services or your local distributor.

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