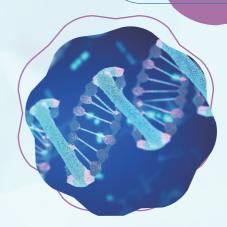


Human Pharmacogenomics SNP Detection Kit

(Next Generation Sequencing)



BACKGROUND

Pharmacogenomics is a discipline that studies the relationship between genetic variations and drug responses, with the goal of improving drug efficacy and safety. It investigates the genetic characteristics that affect individual differences in drug absorption, distribution, metabolism, and elimination, as well as the different responses to drugs caused by genetic variations in different patients. By doing so, it provides a platform for developing new drugs, guiding rational drug use, enhancing drug effectiveness, reducing adverse drug reactions, lowering the overall cost of drug development, and ultimately improving the quality of disease treatment.

Differences in drug-metabolizing enzymes and drug target genotype can affect the drug's in vivo concentration and the sensitivity of targeted tissues to the drug, resulting in individual differences in drug responsiveness (including therapeutic and adverse reactions).

This test kit detects 65 SNP loci of 21 pharmacogenomic-related genes, which can guide patients with specific genotypes to select appropriate drugs and dosages, achieve personalized medication, and improve the effectiveness and safety of drug therapy, thereby preventing the occurrence of serious adverse drug reactions.

DETECTED GENES

Gene	rs ID	Gene	rs ID	Gene	rs ID	Gene	rs ID	Gene	rs ID
MTHFR	rs1801131	HLA-A*3101	rs1061235	CYP2C19	rs56337013	CYP1A2	rs35694136	- CYP2D6	rs35742686
	rs1801133	HLA-B	rs3909184		rs12248560		rs2069526		rs5030865
DPYD	rs1801268	TILA-D	rs2395029		rs28399504		rs762551		rs28371706
	rs1801267		rs41303343		rs72552267	VKORC1	rs9923231		rs5030862
	rs3918290	СҮРЗА5	rs28383479		rs4986893	CYP2B6	rs34223104	G6PD	rs76723693
	rs1801266		rs10264272	NAT2	rs1801279		rs28399499		rs137852328
	rs1801265		rs776746		rs1801280		rs3211371		rs5030872
F5	rs6025		rs28383468		rs1799930	APOE	rs429358		rs1050829
UGT1A1	rs4148323	NAT1	rs56379106		rs1799931		rs7412		rs1050828
TPMT	rs1142345		rs4986782	CYP2C9	rs1799853	COMT	rs4680		
	rs1800584		rs56172717		rs28371685	CYP2D6	rs1135840		
	rs1800460	CYP2C19	rs6413438	F2	rs1799963		rs59421388		
	rs12201199		rs4244285	SLCO1B1	rs4149056		rs28371725		
	rs1800462		rs72558186	CYP1A2	rs2069514		rs16947		

PRODUCT INFORMATION

Product Name	Core Technology	Pack Size	Instruments Validated	Sample Type
Human Pharmacogenomics SNP Detection Kit	RingCap®	16 Tests/Kit 32 Tests/Kit	lonTorrent Illumina MGISEQ	Peripheral blood

DETECTION SIGNIFICANCE

- Suide clinical practice to select appropriate medications and dosages tailored to specific patients, achieving personalized drug therapy;
- >>> Enhance the efficacy and safety of drug therapy and prevent the occurrence of serious adverse drug reactions.

ELIGIBLE POPULATION

- » Patients requiring long-term or lifelong drug therapy, such as cardiovascular drugs, antipsychotic drugs, gastrointestinal drugs, etc.
- » Individuals with a history of serious adverse drug reactions or a family member with such a history.
- >>> Patients receiving multiple drug therapies simultaneously.
- >>> Patients whose use of a certain drug has not achieved the desired clinical outcome, and whose disease control is unstable.

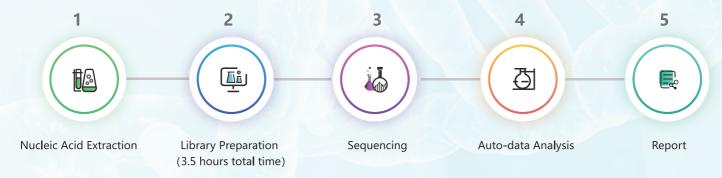
FEATURES & ADVANTAGES

Ease of Use: Based on the independent patent technology RingCap®, Library preparation in 2 steps.

Fast Results: The library preparation takes only 3.5 hours.

Comprehensive Testing: The simultaneous detection of 21 target genes and 65 loci provides comprehensive guidance for clinicians to select appropriate drugs and dosage for individualized treatment of specific patients.

DETECTION PROCESS





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