

Materials List for:

Candidate Gene Testing in Clinical Cohort Studies with Multiplexed Genotyping and Mass Spectrometry

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Materials

Name	Company	Catalog Number	Comments
Genomic DNA	-	-	1 µL at a concentration of 5-10 ng/µL
Primers: forward and reverse amplification and extension	IDT	-	see manuscript section 1.2.1 on design of primers
Deionized water	E.g. Milli-Q water	-	deionized with 18.2 MΩ.cm resistivity
Genotyping reagent kit. iPLEX Gold Chemistry reagent set	Agena Bioscience	#10148-2	includes all reagents for reactions in 2.2.1, 2.3.1 and 2.4.2 , chip and resin
PCR plates (384-well)	Abgene	#ABGAB-1384	For the MassARRAY system plates by Abgene are compatible
Micropipettes			single and 8-channel
Centrifuge			compatible with 384-well plates
Thermocycler			compatible with PCR programs as detailed in 2.2.4, 2.3.2 and 2.4.3
Dimple resin plate	Agena Bioscience		6mg, 384-well
Plate rotator			
MassARRAY Analyzer 4 System	Agena Biosciences		MALDI-TOF (matrix-assisted laser desorption/ionization – time of flight) Mass Spectrometer.
RS1000 Nanodispenser	Agena Biosciences		
Assay Design Suite	Agena Biosciences		Tool used to design the multiplex genotyping assays
Hot Start Taq			DNA polymerase enzyme
Resin	Agena Biosciences		Supplied with iPLEX kit