

Table S1. Thermocycling cocktail of Sanger Sequencing PCR

Reagents	Volume (μL)
PCR buffer	5
Tag enzyme	0.25
dNTP	4
amplification primer mix	2
H ₂ O	37.75
cDNA	1(10ng/ μL)

Table S2. Thermocycling cocktail of array-based MALDI-TOF PCR

Reagents	Volume(μL)
H ₂ O	0.44
PCR buffer	0.5
MgCl ₂	0.4
dNTP	0.1
PCR primer mix	1.0
Quality control	0.36

PCR enzyme	0.2
cDNA	2 (10 ng/ μ L)

Table S3. Thermocycling cocktail of array-based MALDI-TOF SAP

Reagents	Volume(μ L)
H ₂ O	1.53
SAP buffer	0.17
Shrimp alkaline phosphatase	0.30

Table S4. Thermocycling cocktail of array-based MALDI-TOF extension reaction

Reagents	Volume(μ L)
H ₂ O	0.62
Buffer plus	0.20
Termination mix	0.20
Extension primer mix	0.94
Extension enzyme	0.04

Table S5. Thermocycling conditions of Sanger sequencing and array-based MALDI-TOF

Item	Cycles	Temperature	Time
Thermocycling conditions of Sanger Sequencing PCR	40cycles	95°C	10min
		95°C	30s
		58°C	30s
		72°C	60s
Thermocycling conditions of PCR	45cycles	72°C	7min
95°C		2min	
95°C		30s	
56°C		30s	
Thermocycling conditions of SAP	No cycle	72°C	1min
		72°C	5min
		4°C	4min
		37°C	40min
Thermocycling conditions of extension reaction	40cycles	85°C	5min
		4°C	5min
		95°C	30s
		95°C	5s
		52°C	5s
		80°C	5s
		72°C	3min
		4°C	5min