

MACROGEN MATERIALS AND METHODS

- **Sample** : 20~100ng/rxn
 - **Genomic DNA extraction** : InstaGene Matrix (BIO-RAD, cat.no.:732-6030) *
 - **Genomic DNA extraction-Other** : Exgene Tissue SV (GeneAll Biotechnology) *
 - **Taq pol.** : MBE-110 Axen™ H Taq PCR Master Mix (2X) * (Roche)*
 - **PCR machine** : DNA Engine Tetrad 2 Peltier Thermal Cycler (BIO-RAD) *
 - **PCR product purification** : ExoSAP-IT™ Express PCR Product Cleanup (ThermoFisher)*
 - **Sequencing Kit** : BigDye(R) Terminator v3.1 Cycle Sequencing Kit (Applied Biosystems)
 - **Sequencer** : ABI PRISM 3730XL Analyzer (96 capillary type)
 - **Variant analysis*** : Variant Reporter Software Version 2.1 (Applied Biosystems)
DNASTAR Lasergene SeqMan 7.0
Macrogen SNP analysis program v1.0
- * Different kit may be used in accordance to the sample characteristics.
- **Gel electrophoresis method** : 1.5% agarose gel, 20min running at 300V, 200A, 2ul of DNA loaded.
 - **Ladder** : Thermo Scientific GeneRuler DNA Ladder Mix (#SM0331) , 2ul of DNA loaded.

PCR CONDITION

Temp.	Time	Cycles
95 °C	5 min	35
95 °C	30 sec	
55 °C	30 sec	
72 °C	1 min	
72 °C	7 min	
4 °C	Storage	