HABC Assays	
BBL Assay ID	**25**
GENE	**MnSOD2**
SNP NAME	MnSOD2_T141C_rs1799725
Identifier	T141C
rs Number	1799725
Allele 1	T
Allele 2	C
Sequence	AGAAGAAAGGGGACCCGGTCACGCGCCCAAGGGCGAAGGGGCTCGCGGCGGGC AGGGCCTCCGCGGCAATGGCGACAGTGGCCGCACCGGGCCTGGCGGGACCGGG GCACCTGCAGGCGGTTCTCCCGGGAGTGCCCGGCGCGGCGGCTGGAGCGGGGA TCCGCAGGGAGGGGACGCGGGGACTCGGGGGACGCCGCGCCTGCCGTTCCTCG GCAGCCCAGCCTGCGTAGACGGTCCCGCGGCGCTGACTGACCGGGCTGTGCTTT CTCGTCTTCAGCACCAGCAGGCAGCTGGCTCCGG[T/C]TTTGGGGTATCTGGGCTC CAGGCAGAAGCACAGCCTCCCCGACCTGCCCTACGACTACGGCGCCCTGGAACC TCACATCAACGCGCAGATCATGCAGCTGCACCACAGCAAGCACCACGCGGCCTAC GTGAACAACCTGAACGTCACCGAGGAGAAGTACCAGGAGGCGTTGGCCAAGGGTA GGTTCCAGGCTGAGCGGCGGGAGGCAGTCCCCGGCAGAGGCGACCCCAGGGAG CCAGGCCCCATACGGACGGGCCTCTCCGTGGAGGAGAACTCGCTTCGTATTTGTA CCGGTTCCGA
PCR Forward Primer	acgttggatgCTGTGCTTTCTCGTCTTCAG
PCR Reverse Primer	acgttggatgTTCTGCCTGGAGCCCAGATAC
Mass Extend Primer	GGAGCCCAGATACCCCAAA
Mass Extend Mass	5775.8
Mass Extend Product 1	GGAGCCCAGATACCCCAAAA
Mass 1	6073
Pause Mass	
Mass Extend Product 2	GGAGCCCAGATACCCCAAAGC
Mass 2	6378.2
Genotyping Method	MassARRAY
Amount of DNA used	5ng/ul (Conc. 2.5ng/ul; Vol. 2ul)
PCR components	ul
10X Buffer B (Solis Biodyne)	0.50
(2pm/ul) FOR primer (Bioserve Biotechnologies Ltd.)	0.50
(2pm/ul) REV primer (Bioserve Biotechnologies Ltd.)	0.50
(2.5 mM ea.) dNTPs (Bioserve Biotechnologies Ltd.)	0.25
(25 mM) MgCl (Solis Biodyne)	0.50
TAQ (Solis Biodyne)	0.02
H20	0.73
TOTAL VOLUME (ul) without DNA	3.00
PCR cycling conditions	
Step 1:	
Time	15 min.
Temp (OC)	95
Step 2:	
Time	20 sec.
Temp (OC)	95
Step 3:	
Time	30 sec.
Temp (OC)	56
Step4:	
Time	60 sec.
Temp (OC)	72
# of Cycles (step 2 to 4)	45 cycles
Step5:	
Time	3 min.
Temp (OC)	72
step 6:	4oC Hold

SAP Treatment components	ul
Water	1.53
SAP enzyme (USB)	0.3
hME Buffer (BBL)	0.17
TOTAL VOLUME (ul)	2
Incubation cond.	
Step 1:	
Time	20 min.
Temp (OC)	37
Step 2:	
Time	5 min.
Temp (OC)	85
Step 3:	4oC Hold
MassExtend Reaction components	ul
Water	1.782
TERM MIX	0.2
(100pm/ul) EXT primers (Bioserve Biotechnologies Ltd	0
ME ENZYME (Solis Biodyne)	0.018
TOTAL VOLUME (ul)	2
Termination Mix	ACT/AC
MassExtend Reaction conditions	
Step 1:	
Time	2 min.
Temp (OC)	94
Step 2:	
Time	5 sec.
Temp (OC)	94
Step 3:	
Time	5 sec.
Temp (OC)	52
Step4:	
Time	5 sec.
Temp (OC)	72
# of Cycles (step 2 to 4)	40 cycles
Step5:	4oC Hold