

**Supplemental Table S1. *MICA* non-synonymous cSNPs and major alleles identified in Taiwanese normal healthy controls and immune mediated diseases patients**

Residue Position	SNP ID Number	Codon Changes	Exon	MICA Allele										
				001*	002	008	009	010	019	045	007	004	033	012
<u>6R&gt;P</u>	rs9380254	<u>C</u> <del>G</del> / <u>C</u> <del>C</del> T	Exon 2	G	-	-	-	C	-	-	-	-	-	-
<u>14W&gt;G</u>	rs1063630	<u>T</u> <del>G</del> G/ <u>G</u> <del>G</del> G	Exon 2	T	G	-	-	-	-	-	-	-	-	-
<u>24A&gt;T</u>	rs1051785	<u>G</u> <del>C</del> T/ <u>A</u> <del>C</del> T	Exon 2	A	G	G	G	G	G	G	G	G	G	-
<u>36Y&gt;C</u>	rs1051786	<u>T</u> <del>A</del> T/ <u>T</u> <del>G</del> T	Exon 2	G	-	A	A	A	A	-	-	A	A	-
<u>122L&gt;V</u>	rs1051790	<u>C</u> <del>T</del> G/ <u>G</u> <del>T</del> G	Exon 3	C	-	-	G	-	-	-	-	G	-	-
<u>124T&gt;S</u>	rs41539919	<u>A</u> <del>C</del> T/ <u>T</u> <del>C</del> T	Exon 3	A	-	-	-	-	-	-	-	-	T	-
<u>**125E&gt;K</u>	<b>rs1051791</b>	<u>G</u> <del>A</del> G/ <u>A</u> <del>A</del> G	Exon 3	A	G	G	G	G	G	G	G	G	G	G
<u>129V&gt;M</u>	rs1051792	<u>G</u> <del>T</del> G/ <u>A</u> <del>T</del> G	Exon 3	A	-	G	G	G	G	-	-	G	G	-
<u>156H&gt;L</u>	rs3819268	<u>C</u> <del>A</del> C/ <u>C</u> <del>T</del> C	Exon 3	A	-	-	-	-	-	-	-	-	-	T
<u>173E&gt;K</u>	rs1051794	<u>G</u> <del>A</del> A/ <u>A</u> <del>A</del> A	Exon 3	A	-	G	G	G	G	-	-	G	G	-
<u>175G&gt;S</u>	rs1131896	<u>G</u> <del>G</del> C/ <u>A</u> <del>G</del> C	Exon 3	G	-	-	A	A	A	-	-	A	A	-
<u>181T&gt;R</u>	rs1131897	<u>A</u> <del>C</del> A/ <u>A</u> <del>G</del> A	Exon 3	C	-	-	-	-	-	-	-	G	-	-
<b><u>206S&gt;G</u></b>	rs1131898	<u>A</u> <del>G</del> C/ <u>G</u> <del>G</del> C	Exon 4	G	-	A	A	A	A	A	-	A	A	-
<b><u>210R&gt;W</u></b>	rs1051798	<u>C</u> <del>G</del> G/ <u>T</u> <del>G</del> G	Exon 4	T	-	C	C	C	C	C	-	C	C	-
<u>213I&gt;T</u>	rs1140700	<u>A</u> <del>T</del> A/ <u>A</u> <del>C</del> A	Exon 4	C	-	T	C	T	T	T	-	-	-	-
<b><u>215S&gt;T</u></b>	rs1051799	<u>A</u> <del>C</del> C/ <u>A</u> <del>G</del> C	Exon 4	G	-	C	C	C	C	C	-	C	C	-
<u>251Q&gt;R</u>	rs1063635	<u>C</u> <del>A</del> A/ <u>C</u> <del>G</del> A	Exon 4	A	-	G	-	G	G	-	-	-	G	-

\*MICA\*001 allele was listed as the reference allele for the nucleotide sequence comparison with other MICA alleles that had allele frequency >1% in the combined population of Taiwanese normal controls and AS patients as shown in the Table 1.

\*\*rs1051791 that causes amino acid (aa) substitution at the residue 125 was not detected in Taiwanese but is listed to compare the nucleotide differences between MICA\*001 and major MICA alleles identified in Taiwanese. Non-conservative residue changes are underlined. Residue substitutions that define two MICA lineages are in bold.