

# REPORT OF THE 32<sup>nd</sup> UCLA INTERNATIONAL MICA EXCHANGE

## JULY 5 2017

MICA

125-128

For the 32<sup>nd</sup> MICA Exchange, 4 DNA samples (MICA#125-MICA#128) were shipped to 22 laboratories worldwide. MICA typing results were re-

ceived from all 22 laboratories. Results for MICA Exchange 32 are summarized in Table 1 and individual laboratory results are shown in Tables 2-5.

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**MICA#125.** MICA\*004 and MICA\*068 was the consensus genotype for this sample from an African American donor. MICA\*004 and MICA\*068 were reported by 100% and 95%, respectively. MICA\*002 was assigned by 1 lab. MICA\*002 and MICA\*068 are identical in their extra cellular domains, but differ in the number of GCT repeats in their transmembrane domains (exon 5). This sample was typed previously in the Cell Exchange as cells 1468 (2012) and 1440 (2011). The reported class I type was A\*03:01, A\*30:01, B\*41:02, B\*42:02, C\*17:01.

**MICA#126.** The reported genotype for this sample from an Asian donor is MICA\*010 and MICA\*012. MICA\*010 was reported by 8 labs, with 6 labs assigning MICA\*010:01. A number of labs (n=13) were unable to resolve MICA\*010 from MICA\*069. MICA\*069 differs from MICA\*010:01 in exon 6 by a single nucleotide substitution at codon 350 (GCT → GAT), resulting in an amino acid change from alanine to aspartic acid in MICA\*069. MICA\*012 was reported in complete consensus as the second MICA allele, with 12 labs assigning MICA\*012:01.

**MICA#127.** MICA\*018 and MICA\*027 was the reported genotype for this sample from a Hispanic donor. MICA\*018 was assigned by all 22 labs, with 12/22 assigning MICA\*018:01. For the second MICA allele, MICA\*027 was reported by 8 labs, while the majority (n=13) reported MICA\*027/\*048. MICA\*048 differs from MICA\*027 in exon 5 by a single nucleotide substitution at codon 316 (GAG → GAT), in which glutamic acid is replaced by aspartic acid in MICA\*048.

**MICA#128.** The reported genotype for this sample from a Caucasian donor is MICA\*009 and MICA\*016. MICA\*009 was assigned by 8 labs, with 7 labs assigning MICA\*009:01. More than half the labs (n=14) were unable to resolve MICA\*009 from MICA\*049. MICA\*049 differs from MICA\*009 in exon 6 by a single nucleotide substitution at codon 333 (ACG → ATG), resulting in an amino acid change from threonine to methionine. MICA\*016 was reported in complete consensus as the second MICA allele.

**NEXT MAILING DATE: August 9, 2017**

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**Table 1. Summary of 32<sup>nd</sup> MICA Exchange #125-#128**

<b>MICA#125</b>	
22 labs	
<b>Allele-1</b>	<b>%(n)</b>
*004	100(22)
<b>Allele-2</b>	<b>%(n)</b>
*068	95(21)
*002:01/*002:02	5 (1)

<b>MICA#126</b>	
22 labs	
<b>Allele - 1</b>	<b>%(n)</b>
*010:01	27(6)
*010	9 (2)
*010:01/*069	23(5)
*010/*069	32(7)
*010:01/*065/*069	4 (1)
*076	4 (1)
<b>Allele - 2</b>	<b>%(n)</b>
*012:01	55(12)
*012	41(9)
*012:01/*012:04	4 (1)

<b>MICA#127</b>	
22 labs	
<b>Allele - 1</b>	<b>%(n)</b>
*018:01	55(12)
*018	41(9)
*018:01/*018:02	4 (1)
<b>Allele - 2</b>	<b>%(n)</b>
*027	36(8)
*027/*048	55(12)
*076	4 (1)
*008:03/*027/*048	4 (1)

<b>MICA#128</b>	
22 labs	
<b>Allele - 1</b>	<b>%(n)</b>
*009:01	32(7)
*009	5 (1)
*009:01/*049	27(6)
*009/*049	36(8)
<b>Allele - 2</b>	<b>%(n)</b>
*016	100(22)

**Table 2. MICA typing results reported by participating laboratories.**

<b>MICA# 125 (Black)</b>	<b>CTR</b>	<b>Investigator</b>	<b>Allele-1</b>	<b>Allele-2</b>	<b>Others</b>	<b>Method</b>
	3224	Chen, Dong-Feng	*004	*068		SSO
	8086	Du, Keming	*004	*068		SBT
	2549	Fagoaga, Omar	*004	*068		SSO
	234	Fernandez, Casiana	*004	*068		SSO
	762	Fischer, Gottfried	*004	*068		SBT
	8047	Fuessel, Monika	*004	*002:01 /*002:02		
	5000	Hsu, Susan H.	*004	*068		SSO
	8035	Kanangat, Siva	*004	*068		SSO
	4337	Kim, Tai-Gyu	*004	*068		SSP
	836	KuKuruga, Debra	*004	*068		SSO
	278	Lee, Jar-How	*004	*068		
	8067	Marino, Susana R.	*004	*068		SSO
	8080	Monos, Dimitrios	*004	*068		SSO
	735	Moussa, Omar	*004	*068		SSO
	733	Mytilineos, Joannis	*004	*068		SBT
	3966	Permpikul, Vejbaesya &	*004	*068		SSO
	8030	Poulton, Kay	*004	*068		SSO
	3753	Reed, Elaine F.	*004	*068		SSO
	3798	Reinsmoen, Nancy L.	*004	*068		SSO
	1426	Senitzer, David	*004	*068		SSO
	5231	Warner, Paul	*004	*068		SSO
	16	Zhang, Aiwen	*004	*068		SSO

**Table 3. MICA typing results reported by participating laboratories.**

<b>MICA # 126 (Asian)</b>	<b>CTR</b>	<b>Investigator</b>	<b>Allele-1</b>	<b>Allele-2</b>	<b>Others</b>	<b>Method</b>
	3224	Chen, Dong-Feng	*010:01/*069	*012:01		SSO
	8086	Du, Keming	*010:01	*012:01		SBT
	2549	Fagoaga, Omar	*010:01	*012:01	*069	SSO
	234	Fernandez, Casiana	*010:01/*069	*012:01		SSO
	762	Fischer, Gottfried	*010:01	*012:01		SBT
	8047	Fuessel, Monika	*010:01/*065 /*069	*012:01 /*012:04		
	5000	Hsu, Susan H.	*010/*069	*012		SSO
	8035	Kanangat, Siva	*010/*069	*012		SSO
	4337	Kim, Tai-Gyu	*010	*012:01		SSP
	836	KuKuruga, Debra	*010/*069	*012		SSO
	278	Lee, Jar-How	*010:01	*012:01	*069	
	8067	Marino, Susana R.	*010:01/*069	*012:01		SSO
	8080	Monos, Dimitrios	*010:01/*069	*012:01		SSO
	735	Moussa, Omar	*010	*012	*069	SSO
	733	Mytilineos, Joannis	*010:01	*012:01	*069	SBT
	3966	Permpikul, Vejbaesya &	*076	*012		SSO
	8030	Poulton, Kay	*010:01	*012:01	*069	SSO
	3753	Reed, Elaine F.	*010/*069	*012		SSO
	3798	Reinsmoen, Nancy L.	*010/*069	*012		SSO
	1426	Senitzer, David	*010:01/*069	*012:01		SSO
	5231	Warner, Paul	*010/*069	*012		SSO
	16	Zhang, Aiwen	*010/*069	*012		SSO

**Table 4. MICA typing results reported by participating laboratories.**

<b>MICA# 127 (Hispanic)</b>	<b>CTR</b>	<b>Investigator</b>	<b>Allele-1</b>	<b>Allele-2</b>	<b>Others</b>	<b>Method</b>
	3224	Chen, Dong-Feng	*018:01	*027/*048		SSO
	8086	Du, Keming	*018:01	*027		SBT
	2549	Fagoaga, Omar	*018:01	*027	*048	SSO
	234	Fernandez, Casiana	*018:01	*027/*048		SSO
	762	Fischer, Gottfried	*018:01	*027		SBT
	8047	Fuessel, Monika	*018:01 /*018:02	*008:03 /*027 /*048		
	5000	Hsu, Susan H.	*018	*027/*048		SSO
	8035	Kanangat, Siva	*018	*027/*048		SSO
	4337	Kim, Tai-Gyu	*018:01	*027		SSP
	836	KuKuruga, Debra	*018	*027/*048		SSO
	278	Lee, Jar-How	*018:01	*027	*048	
	8067	Marino, Susana R.	*018:01	*027/*048		SSO
	8080	Monos, Dimitrios	*018:01	*027/*048		SSO
	735	Moussa, Omar	*018	*027	*048	SSO
	733	Mytilineos, Joannis	*018:01	*027		SBT
	3966	Permpikul, Vejbaes	*018	*076		SSO
	8030	Poulton, Kay	*018:01	*027	*048	SSO
	3753	Reed, Elaine F.	*018	*027/*048		SSO
	3798	Reinsmoen, Nancy	*018	*027/*048		SSO
	1426	Senitzer, David	*018:01	*027/*048		SSO
	5231	Warner, Paul	*018	*027/*048		SSO
	16	Zhang, Aiwen	*018	*027/*048		SSO

**Table 5. MICA typing results reported by participating laboratories.**

<b>MICA# 128 (Caucasian)</b>	<b>CTR</b>	<b>Investigator</b>	<b>Allele-1</b>	<b>Allele-2</b>	<b>Others</b>	<b>Method</b>
	3224	Chen, Dong-Feng	*009:01/*049	*016		SSO
	8086	Du, Keming	*009:01	*016		SBT
	2549	Fagoaga, Omar	*009:01	*016	*049	SSO
	234	Fernandez, Casiana	*009:01/*049	*016		SSO
	762	Fischer, Gottfried	*009:01	*016		SBT
	8047	Fuessel, Monika	*009:01/*049	*016		
	5000	Hsu, Susan H.	*009/*049	*016		SSO
	8035	Kanangat, Siva	*009/*049	*016		SSO
	4337	Kim, Tai-Gyu	*009:01	*016		SSP
	836	KuKuruga, Debra	*009/*049	*016		SSO
	278	Lee, Jar-How	*009:01	*016	*049	
	8067	Marino, Susana R.	*009:01/*049	*016		SSO
	8080	Monos, Dimitrios	*009:01/*049	*016		SSO
	735	Moussa, Omar	*009	*016	*049	SSO
	733	Mytilineos, Joannis	*009:01	*016	*049	SBT
	3966	Permpikul, Vejbaesya &	*009/*049	*016		SSO
	8030	Poulton, Kay	*009:01	*016	*049	SSO
	3753	Reed, Elaine F.	*009/*049	*016		SSO
	3798	Reinsmoen, Nancy L.	*009/*049	*016		SSO
	1426	Senitzer, David	*009:01/*049	*016		SSO
	5231	Warner, Paul	*009/*049	*016		SSO
	16	Zhang, Aiwen	*009/*049	*016		SSO