

REPORT OF THE 26th UCLA International MICA Exchange

JULY 9, 2015

MICA	101-104
------	---------

For the 26th MICA Exchange, 4 DNA samples (MICA#101-MICA#104) were shipped to 17 laboratories worldwide. MICA typing results were received from all 17 laboratories and individual laborato-

ry results are shown in Tables 1-4.

Thank you for your continued participation in this important program.

MICA#101. The consensus type for this sample from a Black donor is MICA*004-MICA*018. MICA*004 and MICA*018 were each reported in complete consensus. MICA*018:01 was assigned by 8 labs.

MICA#102. MICA*008 and MICA*009/*049 were the assigned types for this sample from a Caucasian donor. MICA*008 was reported by 13 labs, with SBT assigning MICA*008:01. Several labs were unable to resolve MICA*008 from MICA*070 and MICA*073. MICA*070 and MICA*073 each differ from MICA*008 in exon 2 by a single nucleotide substitution. For MICA*073, the nucleotide substitution is at codon 14 (TGG → CGG), which results in an amino acid change from tryptophan to arginine. For MICA*070, a nucleotide substitution at codon 38 (AGG → AGC), results in an amino acid change from arginine in MICA*008 to serine in MICA*070.

Assignment of the second MICA allele remained unresolved as MICA*009/*049 was assigned by more than half the labs (n=9), and another 3 labs reported MICA*009/*049/*074. MICA*049 was assigned by 2 labs (1 SBT and 1 SSP), and MICA*009:01 was assigned by 3 labs, with each of the 3 labs also reporting MICA*049. MICA*049 is identical to MICA*009 except at codon 333 (exon 6) in which a single nucleotide substitution (ACG → ATG) results in an amino acid change from threonine to methionine.

MICA#103. MICA*010 was the assigned type for this sample from a Filipino donor. Four labs, including 2 labs performing SBT, assigned MICA*010:01. The remainder of the labs (n=11) were unable to resolve MICA*010 from MICA*019 and MICA*069. MICA*019 differs from MICA*010 in exon 2 by a single nucleotide substitution at codon 6 (CCT → CGT), resulting in an amino acid change from proline to arginine. MICA*069, on the other hand, differs from MICA*010 in exon 6 by a single nucleotide substitution at codon 350 (GCT → GAT), which results in an amino acid change from alanine in MICA *010 to aspartic acid in MICA*069.

MICA#104. The consensus type for this sample from a Caucasian donor is MICA*004-MICA*008. MICA*004 was assigned by all 17 labs. MICA*008 was assigned by 13 labs, with SBT assigning MICA*008:01. Three labs were unable to resolve MICA*008 from MICA*070 and MICA*073. MICA*070 differs from MICA*008 in exon 2 by a single nucleotide substitution at codon 38 (AGG → AGC), resulting in an amino acid change from arginine to serine. MICA*073 also differs from MICA*008 by a single nucleotide substitution in exon 2, however the substitution is at codon 14 (TGG → CGG), which results in an amino acid change from tryptophan in MICA*008 to arginine in MICA*073.

NEXT MAILING DATE: August 5, 2015

Arlene Locke, David Gjertson, Qiheng Zhang, and Elaine F. Reed

Table 1: MICA typing results reported by participating laboratories.						
MICA#101 (Black)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	1466	Yu, Neng	*004	*018		SSO
	3798	Reinsmoen, Nancy L.	*004	*018		SSO
	234	Amador, Alexandra	*004	*018:01		
	836	KuKuruga, Debra	*004	*018		
	4337	Kim, Tai-Gyu	*004	*018		SSP
	2518	Tambur, Anat	*004	*018:01		
	16	Askar, Medhat Z.	*004	*018		
	3224	Chen, Dong-Feng	*004	*018:01		SSO
	8030	Poulton, Kay	*004	*018:01		SSO
	3753	Reed, Elaine F.	*004	*018		SSO
	5231	Nelson, Karen	*004	*018:01		SSO
	762	Fischer, Gottfried	*004	*018:01		SBT
	733	Mytilineos, Joannis	*004	*018:01		SBT
	278	Lee, Jar-How	*004	*018:01		SSO
	759	Lopez-Cepero, Mayra	*004	*018		SSO
	3966	Permpikul, Vejbaesya &	*004	*018		SSP
	2549	Fagoaga, Omar	*004	*018		SSO

Table 2: MICA typing results reported by participating laboratories.						
MICA#102 (Caucasian)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	1466	Yu, Neng	*008/*070/*073	*009/*049/*074		SSO
	3798	Reinsmoen, Nancy L.	*008	*009/*049		SSO
	234	Amador, Alexandra	*008/*070/*073	*009:01/*049/*074		
	836	KuKuruga, Debra	*008	*009/*049		
	4337	Kim, Tai-Gyu	*008	*049		SSP
	2518	Tambur, Anat	*008	*009:01	*049	
	16	Askar, Medhat Z.	*008	*009/*049		
	3224	Chen, Dong-Feng	*008/*080/*082	*009/*049		SSO
	8030	Poulton, Kay	*008	*009:01	*049	SSO
	3753	Reed, Elaine F.	*008	*009/*049		SSO
	5231	Nelson, Karen	*008	*009/*049		SSO
	762	Fischer, Gottfried	*008:01	*049		SBT
	733	Mytilineos, Joannis	*008:01	*009:01	*008:04, *049	SBT
	278	Lee, Jar-How	*008:01/*008:04	*009:01/*049		SSO
	759	Lopez-Cepero, Mayra	*008/*070/*073	*009/*049/*074		SSO
	3966	Permpikul, Vejbaesya &	*008	*009/*049		SSP
	2549	Fagoaga, Omar	*008	*009/*049		SSO

Table 3: MICA typing results reported by participating laboratories.						
MICA#103 (Filipino)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	1466	Yu, Neng	*010/*069	*010/*019/*069		SSO
	3798	Reinsmoen, Nancy L.	*010/*069	*010/*019/*069		SSO
	234	Amador, Alexandra	*010:01/*019/*069	*010:01/*019/*069		
	836	KuKuruga, Debra	*010/069	*010/*019/*069		
	4337	Kim, Tai-Gyu	*010			SSP
	2518	Tambur, Anat	*010:01	*010:01	*019/*069	
	16	Askar, Medhat Z.	*010/*019/*069			
	3224	Chen, Dong-Feng	*010/*069	*010/*069		SSO
	8030	Poulton, Kay	*010:01		*019/*069	SSO
	3753	Reed, Elaine F.	*010/*019/*069	*010/*019/*069		SSO
	5231	Nelson, Karen	*010/*019/*069			SSO
	762	Fischer, Gottfried	*010:01			SBT
	733	Mytilineos, Joannis	*010:01		*069	SBT
	278	Lee, Jar-How	*010:01/*019/*069			SSO
	759	Lopez-Cepero, Mayra	*010/*069	*010/*019/*069		SSO
	3966	Permpikul, Vejbaesya &	*010	*010		SSP
	2549	Fagoaga, Omar	*010/*019/*069	*010/*019/*069		SSO

Table 4: MICA typing results reported by participating laboratories.						
MICA# 104 (Caucasian)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	1466	Yu, Neng	*004	*008/*070/*073		SSO
	3798	Reinsmoen, Nancy L.	*004	*008		SSO
	234	Amador, Alexandra	*004	*008/*070/*073		
	836	KuKuruga, Debra	*004	*008		
	4337	Kim, Tai-Gyu	*004	*008		SSP
	2518	Tambur, Anat	*004	*008		
	16	Askar, Medhat Z.	*004	*008		
	3224	Chen, Dong-Feng	*004	*008/*080/*082		SSO
	8030	Poulton, Kay	*004	*008		SSO
	3753	Reed, Elaine F.	*004	*008		SSO
	5231	Nelson, Karen	*004	*008		SSO
	762	Fischer, Gottfried	*004	*008:01		SBT
	733	Mytilineos, Joannis	*004	*008:01	*008:04	SBT
	278	Lee, Jar-How	*004	*008:01/*008:04		SSO
	759	Lopez-Cepero, Mayra	*004	*008/*070/*073		SSO
	3966	Permpikul, Vejbaesya &	*004	*008		SSP
	2549	Fagoaga, Omar	*004	*008		SSO