

REPORT OF THE 24th UCLA International MICA Exchange

OCTOBER 8, 2014

MICA

93-96

For the 24th MICA Exchange, 4 DNA samples (MICA#093-MICA#096) were shipped to 18 laboratories. MICA typing results were received from all

18 laboratories and individual laboratory results are shown in Tables 1-4. Thank you for your continued participation in this important program.

MICA#093. This Caucasian sample is homozygous for MICA*008. MICA*008 was reported by 15 labs, with 2 SBT labs assigning MICA*008:01. Two labs were unable to resolve MICA*008:01 from MICA*008:04. MICA*008:04 differs from MICA*008:01 in exon 1 by a single nucleotide substitution (TTC → TTT), resulting in a synonymous substitution.

MICA#094. MICA*018 and MICA*019 were reported in complete consensus for this sample. MICA*018:01 was assigned by 6 labs (4 SSO and 2 SBT). This sample is 1083933x, a reference cell for DRB1*13:11:01. It was previously typed for class II in the B-cell line exchange as Ter 396 (same as Ter 321) and in the International HLA DNA Exchange as DNA #501 (2006). We wish to thank Helen Bass, Jane Rowlands, and Tracy Rees, Welsh Blood Service, Pontyclun, for kindly providing us with this reference sample.

MICA#095. The consensus type for this Chinese sample is MICA*008 and MICA*045. MICA*008 was assigned by 14 labs, with 1 SBT lab assigning MICA*008:04 and the other SBT lab assigning MICA*008:01:01. Several labs were unable to resolve MICA*008 from MICA*073. MICA*073 differs

from MICA*008 by a single nucleotide substitution in exon 2 at codon 14 (TGG → CGG), which results in an amino acid change from tryptophan to arginine. MICA*045 was reported in completed consensus.

MICA#096. The reported type for this Asian sample is MICA*010 and MICA*027. MICA*010 was assigned by 7 labs, with 4 labs (2 SBT and 2 SSO) assigning MICA*010:01. A number of labs (n=10) were unable to resolve MICA*010 from MICA*069. MICA*069 differs from MICA*010 in exon 6 by a single nucleotide substitution at codon 350 (GCT → GAT), resulting in an amino acid change from alanine to aspartic acid.

MICA*027 was reported by 8 labs, with another 9 labs assigning MICA*027/*048. MICA*048 differs from MICA*027 in exon 5 by a single nucleotide substitution at codon 316 (GAG → GAT), which results in an amino acid change from glutamic acid to aspartic acid.

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

Table 1: MICA typing results reported by participating laboratories.

MICA#093 (Caucasian)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	234	Amador, Alexandra	*008:MV	*008:MV	*070/*073	SSO
	16	Askar, Medhat Z.	*008			SSO
	3224	Chen, Dong-Feng	*008:01/*008:04			SSO
	2549	Fagoaga, Omar	*008:01/008:04	*008:01/*008:04		SSO
	762	Fischer, Gottfried	*008:01			SBT
	4337	Kim, Tai-Gyu	*008			SSP
	836	KuKuruga, Debra	*008			SSO
	278	Lee, Jar-How	*008:01/*008:04/*008:05/*070/*073			SSO
	759	Lopez-Cepero, Mayra	*008	*008/*070/*073		SSO
	733	Mytilineos, Joannis	*008:01:01	*008:01:01	*008:01:02/*008:04	SBT
	5231	Nelson, Karen	*008			SSO
	3966	Permpikul, Vejbaesya &	*008	x		SSP
	8030	Poulton, Kay	*008		*070/*073	SSO
	3753	Reed, Elaine F.	*008/070	*008/*070/*073		
	3798	Reinsmoen, Nancy L.	*008	*008		SSO
	2518	Tambur, Anat	*008	*008		
	3775	Vidan-Jeras, Blanka	*008			SSO
	1466	Yu, Neng	*008	*008/070		

Table 2: MICA typing results reported by participating laboratories.

MICA#094	CTR	Investigator	Allele-1	Allele-2	Others	Method
	234	Amador, Alexandra	*018:01	*019		SSO
	16	Askar, Medhat Z.	*018	*019		SSO
	3224	Chen, Dong-Feng	*018:01	*019		SSO
	2549	Fagoaga, Omar	*018:01	*019		SSO
	762	Fischer, Gottfried	*018:01	*019		SBT
	4337	Kim, Tai-Gyu	*018	*019		SSP
	836	KuKuruga, Debra	*018	*019		SSO
	278	Lee, Jar-How	*018:01	*019		SSO
	759	Lopez-Cepero, Mayra	*018	*019		SSO
	733	Mytilineos, Joannis	*018:01	*019		SBT
	5231	Nelson, Karen	*018	*019		SSO
	3966	Permpikul, Vejbaesya &	*018	*019		SSP
	8030	Poulton, Kay	*018	*019		SSO
	3753	Reed, Elaine F.	*018	*019		
	3798	Reinsmoen, Nancy L.	*018	*019		SSO
	2518	Tambur, Anat	*018	*019		
	3775	Vidan-Jeras, Blanka	*018	*019		SSO
	1466	Yu, Neng	*018	*019		

Table 3: MICA typing results reported by participating laboratories.

MICA#095 (Chinese)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	234	Amador, Alexandra	*008:AD	*045	*073	SSO
	16	Askar, Medhat Z.	*008	*045		SSO
	3224	Chen, Dong-Feng	*008:01/*008:04	*045		SSO
	2549	Fagoaga, Omar	*008:01/*008:04	*045		SSO
	762	Fischer, Gottfried	*008:04	*045		SBT
	4337	Kim, Tai-Gyu	*008	*045		SSP
	836	KuKuruga, Debra	*008	*045		SSO
	278	Lee, Jar-How	*008:01/*008:04/*073	*045		SSO
	759	Lopez-Cepero, Mayra	*008/*073	*045		SSO
	733	Mytilineos, Joannis	*008:01:01	*045	*008:01:02/*008:04	SBT
	5231	Nelson, Karen	*008	*045		SSO
	3966	Permpikul, Vejbaesya &	*008	*045		SSP
	8030	Poulton, Kay	*008	*045	*073	SSO
	3753	Reed, Elaine F.	*008/*073	*045		
	3798	Reinsmoen, Nancy L.	*008	*045		SSO
	2518	Tambur, Anat	*008	*045		
	3775	Vidan-Jeras, Blanka	*008	*045		SSO
	1466	Yu, Neng	*008	*045		

Table 4: MICA typing results reported by participating laboratories.

MICA#096 (Asian)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	234	Amador, Alexandra	*010:01	*027	*048/*069	SSO
	16	Askar, Medhat Z.	*010/*069	*027/*048		SSO
	3224	Chen, Dong-Feng	*010:01/*069	*027/*048		SSO
	2549	Fagoaga, Omar	*010:01	*027	*048/*069	SSO
	762	Fischer, Gottfried	*010:01	*027		SBT
	4337	Kim, Tai-Gyu	*010	*027		SSP
	836	KuKuruga, Debra	*010/*069	*027/*048		SSO
	278	Lee, Jar-How	*010:01/*069	*027/*048		SSO
	759	Lopez-Cepero, Mayra	*010/*069	*027/*048		SSO
	733	Mytilineos, Joannis	*010:01	*027	*069	SBT
	5231	Nelson, Karen	*010/*069	*027/*048		SSO
	3966	Permpikul, Vejbaesya &	*010	*027		SSP
	8030	Poulton, Kay	*019	*027	*048	SSO
	3753	Reed, Elaine F.	*010/*069	*027/*048		
	3798	Reinsmoen, Nancy L.	*010/*069	*027/*048		SSO
	2518	Tambur, Anat	*010	*027	*048/*069	
	3775	Vidan-Jeras, Blanka	*010/*069	*027/*048		SSO
	1466	Yu, Neng	*010/*069	*008/*027/*048		