

REPORT OF THE 29TH UCLA INTERNATIONAL MICA EXCHANGE

JULY 7, 2016

MICA	113-116
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For the 29th MICA Exchange, 4 DNA samples (MICA#113-MICA#116) were shipped to 17 laboratories worldwide. MICA typing results were received from all 17 laboratories. Results for MICA Ex-

change 29 are summarized in Table 1 and individual laboratory results are shown in Tables 2-5.

MICA#113. MICA*008 and MICA*068 was the reported genotype for this sample from a Black donor. MICA*008 was reported in complete consensus, with 9 labs assigning MICA*008:02. The second MICA allele, MICA*068, was reported by 14 labs. Interestingly, 2 labs (1 SBT and 1 SSP), assigned MICA*002:01 and MICA*002:01/*002:03/*020/*055, respectively, as the second MICA allele. MICA*068 differs from MICA*002 in exon 4 in which the deletion of a single nucleotide (G) at position 823 (codon 275) results in a frame shift mutation, altering the reading frame.

MICA#114. The consensus genotype for this sample from a donor of mixed Hispanic and Caucasian heritage is MICA*004 and MICA*047. MICA*004 and MICA*047 were each assigned in complete consensus.

MICA#115. MICA*041 was the reported genotype for this sample from a Hispanic donor. MICA*004 was assigned by all 17 labs, with a number of the labs (n=14) reporting this sample as homozygous for MICA*041. Several other labs reported that MICA*002/*020/*055/

*081 was present along with MICA*041. MICA*002 differs from MICA*041 at position 26 where MICA*002 contains a valine compared to a glycine in MICA*041.

MICA#116. The reported MICA genotype for this sample from a Hispanic donor is MICA*019 and MICA*009. MICA*019 was reported in complete consensus, with 2 labs assigning MICA*019:01. Several labs were unable to resolve MICA*019:01 from MICA*019:02. MICA*019:01 and MICA*019:02 differ in exon 2 at codon 55 where a single nucleotide substitution in MICA*019:02 (GGA → GGG) results in a synonymous substitution.

The assignment of the second MICA allele, remained unresolved as MICA*009:01 was reported by 4 labs, MICA*009 by 2 labs, MICA*009:01/*049 by 3 labs, and MICA*009/*049 by 8 labs. MICA*049 differs from MICA*009:01 in exon 6 by a single nucleotide substitution (ACG → ATG) at codon 333 which results in an amino acid change from threonine to methionine in MICA*049.

NEXT MAILING DATE: August 3, 2016

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Table 1. Summary of 29th MICA Exchange #113-#116

MICA#113	
17 labs	
Allele-1	%(n)
*008:02	53(9)
*008	47(8)
Allele-1	%(n)
*068	82(14)
*002:01	6 (1)
*002:01/*002:03/*020/*055	6 (1)

MICA#114	
17 labs	
Allele - 1	%(n)
*004	100(17)
Allele - 2	%(n)
*047	100(17)

MICA#115	
17 labs	
Allele - 1	%(n)
*041	100(17)
Allele - 2	%(n)
*041	82(14)
*002/*020/*055/*081	18(3)

MICA#116	
17 labs	
Allele - 1	%(n)
*009:01	23(4)
*009	12(2)
*009:01/*049	18(3)
*009/*049	47(8)
Allele - 2	%(n)
*019:01	12(2)
*019:01/*019:02	18(3)
*019	70(12)

Table 2: MICA typing results reported by participating laboratories.						
MICA# 113 (Black)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	762	Fischer, Gottfried	*008:02	*068		SBT
	8067	Marino, Susana R.	*008:02	*068		SSO
	4337	Kim, Tai-Gyu	*008:02	*002:01/*002:03/*020/*055		SSP
	3966	Permpikul, Vejbaesya &	*008	x		SSP
	8030	Poulton, Kay	*008:02	*068		SSO
	8035	Kanangat, Siva	*008	*068		SSO
	5231	Nelson, Karen	*008	*068		SSO
	3753	Reed, Elaine F.	*008	*068		SSO
	3798	Reinsmoen, Nancy L.	*008	*068		SSO
	2549	Fagoaga, Omar	*008:02	*068		SSO
	3224	Chen, Dong-Feng	*008:02	*068		SSO
	16	Zhang, Aiwen	*008	*068		SSO
	234	Fernandez, Casiana	*008:02	*068		SSO
	278	Lee, Jar-How	*008:02	*068		SSO
	759	Lopez-Cepero, Mayra	*008	*068		SSO
	836	KuKuruga, Debra	*008	*068		SSO
	733	Mytilineos, Joannis	*008:02	*002:01		SBT

Table 3: MICA typing results reported by participating laboratories.						
MICA# 114 (Hispanic/ Caucasian)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	762	Fischer, Gottfried	*004	*047		SBT
	8067	Marino, Susana R.	*004	*047		SSO
	4337	Kim, Tai-Gyu	*004	*047		SSP
	3966	Permpikul, Vejbaesya &	*004	*047		SSP
	8030	Poulton, Kay	*004	*047		SSO
	8035	Kanangat, Siva	*004	*047		SSO
	5231	Nelson, Karen	*004	*047		SSO
	3753	Reed, Elaine F.	*004	*047		SSO
	3798	Reinsmoen, Nancy L.	*004	*047		SSO
	2549	Fagoaga, Omar	*004	*047		SSO
	3224	Chen, Dong-Feng	*004	*047		SSO
	16	Zhang, Aiwen	*004	*047		SSO
	234	Fernandez, Casiana	*004	*047		SSO
	278	Lee, Jar-How	*004	*047		SSO
	759	Lopez-Cepero, Mayra	*004	*047		SSO
	836	KuKuruga, Debra	*004	*047		SSO
	733	Mytilineos, Joannis	*004	*047		SBT

Table 4: MICA typing results reported by participating laboratories.						
MICA# 115 (Hispanic)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	762	Fischer, Gottfried	*041			SBT
	8067	Marino, Susana R.	*041			SSO
	4337	Kim, Tai-Gyu	*041	*041		SSP
	3966	Permpikul, Vejbaesya &	*041	*041		SSP
	8030	Poulton, Kay	*041	*041		SSO
	8035	Kanangat, Siva	*041	-		SSO
	5231	Nelson, Karen	*041			SSO
	3753	Reed, Elaine F.	*041	*041		SSO
	3798	Reinsmoen, Nancy L.	*041	*041		SSO
	2549	Fagoaga, Omar	*041	*041		SSO
	3224	Chen, Dong-Feng	*041	-		SSO
	16	Zhang, Aiwen	*041	*002/*020/*055/*081		SSO
	234	Fernandez, Casiana	*041	*002:AC/*020/*055/*081	AC=01/03	SSO
	278	Lee, Jar-How	*041			SSO
	759	Lopez-Cepero, Mayra	*041	*002/*020/*055/*081		SSO
	836	KuKuruga, Debra	*041			SSO
	733	Mytilineos, Joannis	*041			SBT

Table 5: MICA typing results reported by participating laboratories.						
MICA# 116 (Hispanic)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	762	Fischer, Gottfried	*009:01	*019:01		SBT
	8067	Marino, Susana R.	*009:01/*049	*019:01/*019:02		SSO
	4337	Kim, Tai-Gyu	*009	*019		SSP
	3966	Permpikul, Vejbaesya &	*009	*019		SSP
	8030	Poulton, Kay	*009:01	*019:01/*019:02	*049	SSO
	8035	Kanangat, Siva	*009/*049	*019		SSO
	5231	Nelson, Karen	*009/*049	*019		SSO
	3753	Reed, Elaine F.	*009/*049	*019		SSO
	3798	Reinsmoen, Nancy L.	*009/*049	*019		SSO
	2549	Fagoaga, Omar	*009:01	*019	*049	SSO
	3224	Chen, Dong-Feng	*009/*049	*019		SSO
	16	Zhang, Aiwen	*009/*049	*019		SSO
	234	Fernandez, Casiana	*009:01/*049	*019:AB	AB=01/02	SSO
	278	Lee, Jar-How	*009:01/*049	*019		SSO
	759	Lopez-Cepero, Mayra	*009/*049	*019		SSO
	836	KuKuruga, Debra	*009/*049	*019		SSO
	733	Mytilineos, Joannis	*009:01	*019:01	*049	SBT