

REPORT OF THE 33rd UCLA INTERNATIONAL MICA EXCHANGE OCTOBER 12, 2017

MICA

129-132

For the 33rd MICA Exchange, 4 DNA samples (MICA#129-MICA#132) were shipped to 22 laboratories worldwide. MICA typing results were re-

ceived from all 22 laboratories. Results for MICA Exchange 33 are summarized in Table 1 and individual laboratory results are shown in Tables 2-5.

MICA#129. The reported consensus type for this sample from an African American donor is MICA*008 and MICA*015. MICA*008 was assigned in complete consensus, with 1 lab assigning MICA*008:04 and 3 assigning MICA*008:01. All 3 labs assigning MICA*008:01 also reported MICA*008:04 as an additional possibility. MICA*008:04 differs from MICA*008:01 by a single nucleotide substitution (TTC → TTT) in exon 1, resulting in a synonymous substitution. MICA*015 was assigned as the second MICA allele by all but 2 labs, which assigned MICA*068. MICA*068 differs from MICA*015 in exon 3 by a single nucleotide substitution at codon 114 (AGG → GGG), in which arginine is replaced by glycine in MICA*068.

MICA#130. The reported consensus type for this sample from a Caucasian donor is MICA*002 and MICA*017. MICA*002 was assigned by 8 labs, with 4 labs assigning MICA*002:01. The remaining 14 labs were unable to resolve MICA*002 from MICA*020, MICA*055, MICA*068, or MICA*086. MICA*020 and MICA*055 are identical to MICA*002 in their extracellular domains, but differ in the number of GCT repeats in their transmembrane domains. Meanwhile, MICA*086 differs from MICA*002 by a single nucleotide substitution in exon 3 at codon 130 (CCC → TCC), which results in an amino acid change from proline to serine. MICA*017 was assigned in complete agreement.

MICA#131. The reported consensus type for this sample from, an African American donor is MICA*008 and MICA*011. MICA*008 was assigned by 21 labs, with 3 labs reporting MICA*008:01 and 8 reporting MICA*008:01/*008:04. MICA*027/*048 was reported by 1 lab. The second MICA allele was assigned in completed consensus as MICA*011. This sample was previously typed for class I in the Cell Exchange as cell 1494 (2013). The reported class I type was A*02:01-A*03:01-B*14:02-B*44:02-C*05:01-C*08:02.

MICA#132. The consensus type for this sample from a Chinese descent is MICA*010 and MICA*045. MICA*010 was reported by 7 labs, with 5 labs reporting MICA*010:01. A number of labs (n=13) were unable to resolve MICA*010 from MICA*069, while 2 other labs assigned MICA*019. MICA*019:01 differs from MICA*010:01 by a single nucleotide substitution in exon 2 at codon 6 (CCT → CGT), which results in an amino acid change from proline to arginine. MICA*069 in turn differs from MICA*010:01 by a single nucleotide substitution in exon 6 at codon 350 (GCT → GAT), where MICA*010:01 has alanine and MICA*069 has aspartic acid.



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Table 1. Summary of 33rd MICA Exchange #129-#132

MICA#129	
22 labs	
Allele-1	%(n)
*008:01	14(3)
*008:04	5 (1)
*008	40(9)
*008:01/*008:04	31(7)
*008:01:01/*008:01:02/*008:04	5 (1)
*008:01:01/*008:01:02/*008:03	5 (1)
Allele-2	%(n)
*015	91(20)
*068	9 (2)

MICA#130	
22 labs	
Allele - 1	%(n)
*002:01	18(4)
*002:01/*002:02	5 (1)
*002	13(3)
*002/*020/*055	5 (1)
*002/*020/*055/*068/*086	27(6)
*002:01/*002:03/*020/*055/*068/*086	32(7)
Allele - 2	%(n)
*017	100(22)

MICA#131	
22 labs	
Allele - 1	%(n)
*008:01	14(3)
*008:01/*008:04	32(7)
*008:01:01/*008:01:02/*008:03	5 (1)
*008:01:01/*008:01:02/*008:04	5 (1)
*027/*048	5 (1)
Allele - 2	%(n)
*011	100(22)

MICA#132	
22 labs	
Allele - 1	%(n)
*010:01	22(5)
*010	9 (2)
*019:01	5 (1)
*019	5 (1)
*010:01/*069	27(6)
*010/*069	22(5)
*010:01/*019:01/*069	5 (1)
*010:01/*065/*069	5 (1)
Allele - 2	%(n)
*045	100(12)

Table 2. MICA typing results reported by participating laboratories.

MICA #129 (Black)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	3224	Chen, Dong-Feng	*008:01/*008:04	*015		SSO
	8086	Du, Keming	*008:04	*015		SBT
	2549	Fagoaga, Omar	*008:01/*008:04	*015		SSO
	234	Fernandez, Casiana	*008:01/*008:04	*015		SSO
	762	Fischer, Gottfried	*008:01	*015	*008:04	SBT
	8047	Fuessel, Monika	*008:01:01/*008:01:02/*008:03	*015	*008:04	NGS
	5000	Hsu, Susan H.	*008:01/*008:04	*015		SSO
	8035	Kanangat, Siva	*008	*015		SSO
	4337	Kim, Tai-Gyu	*008	*068		SSP
	836	KuKuruga, Debra	*008	*015		SSO
	278	Lee, Jar-How	*008:01	*015	*008:04	
	8067	Marino, Susana R.	*008:01/*008:04	*015		SSO
	8080	Monos, Dimitrios	*008:01/*008:04	*015		SSO
	735	Moussa, Omar	*008	*015		SSO
	733	Mytilineos, Joannis	*008:01	*015	*008:04	SBT
	3966	Permpikul, Vejbaesya &	*008	*068		SSO
	8030	Poulton, Kay	*008	*015		SSO
	3753	Reed, Elaine F.	*008	*015		SSO
	3798	Reinsmoen, Nancy L.	*008	*015		SSO
	1426	Senitzer, David	*008:01:01/*008:01:02/*008:04	*015		
	5231	Warner, Paul	*008:01/*008:04	*015		SSO
	16	Zhang, Aiwen	*008	*015		SSO

Table 3. MICA typing results reported by participating laboratories.

MICA# 130 (Caucasian)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	3224	Chen, Dong-Feng	*002/*020/*055/*068/*086	*017		SSO
	8086	Du, Keming	*002:01	*017		SBT
	2549	Fagoaga, Omar	*002:01/*002:03/*020/*055/*068/*086	*017		SSO
	234	Fernandez, Casiana	*002:01/*002:03/*020/*055/*068/*086	*017		SSO
	762	Fischer, Gottfried	*002:01	*017		SBT
	8047	Fuessel, Monika	*002:01/*002:02	*017		NGS
	5000	Hsu, Susan H.	*002:01/*002:03/*020/*055/*068/*086	*017		SSO
	8035	Kanangat, Siva	*002/*020/*055/*068/*086	*017		SSO
	4337	Kim, Tai-Gyu	*002/*020/*055	*017		SSP
	836	KuKuruga, Debra	*002/*020/*055/*068/*086	*017		SSO
	278	Lee, Jar-How	*002:01	*017	*002:03	
	8067	Marino, Susana R.	*002:01/*002:03/*020/*055/*068/*086	*017		SSO
	8080	Monos, Dimitrios	*002:01/*002:03/*020/*055/*068/*086	*017		SSO
	735	Moussa, Omar	*002	*017	*020/*055/*068/*086	SSO
	733	Mytilineos, Joannis	*002:01	*017		SBT
	3966	Permpikul, Vejbaesya	*002	*017		SSO
	8030	Poulton, Kay	*002	*017	*020/*055/*068/*086	SSO
	3753	Reed, Elaine F.	*002/*020/*055/*068/*086	*017		SSO
	3798	Reinsmoen, Nancy L.	*002/*020/*055/*068/*086	*017		SSO
	1426	Senitzer, David	*002:01/*002:03/*020/*055/*068/*086	*017		
	5231	Warner, Paul	*002:01/*002:03/*020/*055/*068/*086	*017		SSO
	16	Zhang, Aiwen	*002/*020/*055/*068/*086	*017		SSO

Table 4. MICA typing results reported by participating laboratories.

MICA# 131 (Black)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	3224	Chen, Dong-Feng	*008:01/*008:04	*11		SSO
	8086	Du, Keming	*008:01	*11		SBT
	2549	Fagoaga, Omar	*008:01/*008:04	*11		SSO
	234	Fernandez, Casiana	*008:01/*008:04	*11		SSO
	762	Fischer, Gottfried	*008:01	*11		SBT
	8047	Fuessel, Monika	*008:01:01/*008:01:02/*008:03	*11	*008:04	NGS
	5000	Hsu, Susan H.	*008:01/*008:04	*11		SSO
	8035	Kanangat, Siva	*008	*11		SSO
	4337	Kim, Tai-Gyu	*008	*11		SSP
	836	KuKuruga, Debra	*027/*048	*11		SSO
	278	Lee, Jar-How	*008:01	*11	*008:04	
	8067	Marino, Susana R.	*008:01/*008:04	*11		SSO
	8080	Monos, Dimitrios	*008:01/*008:04	*11		SSO
	735	Moussa, Omar	*008	*11		SSO
	733	Mytilineos, Joannis	*008:01	*11	*008:04	SBT
	3966	Permpikul, Vejbaesya &	*008	*11		SSO
	8030	Poulton, Kay	*008	*11		SSO
	3753	Reed, Elaine F.	*008	*11		SSO
	3798	Reinsmoen, Nancy L.	*008	*11		SSO
	1426	Senitzer, David	*008:01:01/*008:01:02/*008:04	*11		
	5231	Warner, Paul	*008:01/*008:04	*11		SSO
	16	Zhang, Aiwen	*008	*11		SSO

Table 5. MICA typing results reported by participating laboratories.

MICA# 132 (Chinese)	CTR	Investigator	Allele-1	Allele-2	Others	Method
	3224	Chen, Dong-Feng	*010:01/*069	*045		SSO
	8086	Du, Keming	*010:01	*045		SBT
	2549	Fagoaga, Omar	*010:01/*069	*045		SSO
	234	Fernandez, Casiana	*019:01	*045		SSO
	762	Fischer, Gottfried	*010:01	*045		SBT
	8047	Fuessel, Monika	*010:01/*065/*069	*045		NGS
	5000	Hsu, Susan H.	*010:01/*019:01/*069	*045		SSO
	8035	Kanangat, Siva	*010/*069	*045		SSO
	4337	Kim, Tai-Gyu	*010	*045		SSP
	836	KuKuruga, Debra	*010/*069	*045		SSO
	278	Lee, Jar-How	*010:01	*045	*069	
	8067	Marino, Susana R.	*010:01/*069	*045		SSO
	8080	Monos, Dimitrios	*010:01/*069	*045		SSO
	735	Moussa, Omar	*010	*045	*069	SSO
	733	Mytilineos, Joannis	*010:01	*045	*069	SBT
	3966	Permpikul, Vejbaesya &	*019	*045		SSO
	8030	Poulton, Kay	*010:01	*045	*069	SSO
	3753	Reed, Elaine F.	*010/*069	*045		SSO
	3798	Reinsmoen, Nancy L.	*010/*069	*045		SSO
	1426	Senitzer, David	*010:01/*069	*045		
	5231	Warner, Paul	*010:01/*069	*045		SSO
	16	Zhang, Aiwen	*010/*069	*045		SSO