

# REPORT OF THE 50<sup>th</sup> INTERNATIONAL MICA EXCHANGE

## DECEMBER 1, 2025

MICA

223 - 228

For the 50<sup>th</sup> MICA Exchange, 6 DNA samples (MICA #223 - MICA#228) were shipped to 18 laboratories worldwide. MICA typing results were received

from 17 of those laboratories. Results are summarized on Table 1 and individual laboratory results are listed on tables 2 - 7.

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**MICA #223.** MICA\*006 (A6)-MICA\*016 (A5) was the reported MICA genotype type for this sample from a Hispanic donor. This sample was previously examined as MICA sample #187 (2022) and #109 (2016).

In this present retyping, MICA\*006 was well assigned by 100% of labs. MICA\*016 was assigned by 16 labs (94%), with 2 labs assigning MICA\*016:01:01, and 8 labs assigning MICA\*016:01 as the subtypes.

**MICA #224.** MICA\*049 (A6)-MICA\*052 (A9) was the reported MICA genotype type for this sample from a Caucasian donor. This sample was previously examined as MICA sample #90 (2014) and #43 (2010).

In this present retyping, MICA\*049 was assigned by 14 labs (82%), compared to only 3 labs (18%) assigning it in 2014. MICA\*049:01:01 (18%) and MICA\*049:01 (35%) were the assigned subtypes. As in the previous study, several labs were unable to resolve MICA\*049 from MICA\*009. MICA\*049 differs from MICA\*009 by a single nucleotide substitution in exon 6 at codon 333 (ACG → ATG), resulting in an amino acid substitution from threonine → methionine. The second MICA allele, MICA\*052, was assigned by 16 labs (94%).

**MICA #225.** MICA\*007 (A4)-MICA\*029 (A4) was the reported MICA genotype type for this sample from a donor who's ethnicity was unknown. It was previously examined as MICA sample #167 (2020) and #110 (2016).

In this present study, MICA\*007 was assigned by 14 labs (82%), with 10 labs assigning MICA\*007:01 and 1 lab assigning MICA\*007:01:01. MICA\*029 was assigned by 16 labs (94%). Among them, 8 labs assigned the subtype as MICA\*029:01. One other lab, ctr 5142, identified a novel allele in this sample, noting "MICA\*029:01:NEW; MICA\*029:01:02 (3681T>C); intron1."

**MICA #226.** MICA\*004 (A6)-MICA\*017 (A9) was the reported MICA genotype for this sample from a Caucasian donor. This sample was previously typed in the Exchange as sample #112 (2016).

In this present retyping, MICA\*004 was assigned by 15 labs (88%). Among them, 8 labs assigned the subtype as MICA\*004:01 and 2 labs assigned MICA\*004:01:01. MICA\*017 was also assigned by 15 labs (88%), with 10 labs assigning the MICA\*017:01 as the subtype.

**MICA #227.** MICA\*009 (A6)-MICA\*068 (A9) was the reported MICA genotype for this sample from a Hispanic donor. This sample was previously examined as MICA sample #192 (2022) and #149 (2019).

In this present study, MICA\*009 was assigned by 14 labs (82%), with 10 labs assigning MICA\*009:01, 1 lab assigning MICA\*009:01:01, and 1 lab assigning MICA\*009:01:11. The second allele, MICA\*068, was assigned by 16 labs (94%). Among them, 7 labs assigned MICA\*068:01 and 3 labs assigned MICA\*068:01:01 as the subtypes.

**MICA #228.** MICA\*011 (A6)-MICA\*016 (A5) was the reported MICA genotype for this sample from a Hispanic donor. This sample was previously examined as MICA sample #193 (2023).

In this present study, MICA\*011 was assigned by 16 labs (94%), with 7 labs assigning MICA\*011:01, 2 labs assigning MICA\*011:01:08, and 1 lab assigning MICA\*011:01:01. MICA\*016 was also assigned by 16 labs (94%). Among the 10 labs reporting subtypes, 7 labs assigned MICA\*016:01 and 3 labs assigned MICA\*016:01:01.

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*Arlene Locke, David Gjertson, Qiuheng Zhang, and Elaine F. Reed*



**Table 1. Summary of the 50<sup>th</sup> MICA Exchange #223 - #228**

MICA#223	
17 labs	
Allele-1	%(n)
*006	100(16)
17 labs	
Allele-2	%(n)
*016:01:01	12(2)
*016:01	47(8)
*016	35(6)
*016/*114/*159/*165/*194/*235/*280	6 (1)

MICA#224	
17 labs	
Allele - 1	%(n)
*049:01:01	18(3)
*049:01	35(6)
*049	29(5)
*009:01/*049:01	6 (1)
*009/*049/*109/*116	6 (1)
*009/*049/*105Q/*109/*115/*116/*123	6 (1)
17 labs	
Allele - 2	%(n)
*052	94(16)
*002/*020/*023/*052/*055/*089/*090	6 (1)

MICA#225	
17 labs	
Allele - 1	%(n)
*007:01:01	6 (1)
*007:01	59(10)
*007	17(3)
*007:01/*007:10/*112:02	6 (1)
*007/*026/*100	6 (1)
*007/*100/*213/*243/*244/*253/*258	6 (1)
17 labs	
Allele - 2	%(n)
*029:01	47(8)
*029	35(6)
*029:01/029:02	6 (1)
*029:01:NEW	6 (1)
*029/*162/*168	6 (1)

MICA#226	
17 labs	
Allele - 1	%(n)
*004:01:01	12(2)
*004:01	47(8)
*004	29(5)
*004/*141/*151/*182/*199/*265/*269	6 (1)
*004/*006/*009/*049/*105Q/*108/*109	6 (1)
17 labs	
Allele-2	%(n)
*017:01	59(10)
*017	29(5)
*017/*095/*183/*207/*227/*233/*276	6 (1)
*002/*020/*023/*052/*055/*089/*090	6 (1)

MICA#227	
17 labs	
Allele - 1	%(n)
*009:01:01	6 (1)
*009:01:11	6 (1)
*009:01	59(10)
*009	12(2)
*009:01/*049:01	6 (1)
*009/*049/*109/*116	6 (1)
*009/049/*105Q/*109/*115/*116/*123	6 (1)
17 labs	
Allele - 2	%(n)
*068:01:01	18(3)
*068:01	41(7)
*068	35(6)
*002/*020/*023/*052/*055/*089/*090	6 (1)

MICA#228	
17 labs	
Allele - 1	%(n)
*011:01:08	12(2)
*011:01:01	6 (1)
*011:01	41(7)
*011	35(6)
*011/*152/*153/*171Q/*188/*254	6 (1)
17 labs	
Allele - 2	%(n)
*016:01:01	18(3)
*016:01	41(7)
*016	35(6)
*016/*114/*159/*165/*194/*235/*280	6 (1)

Table 2. MICA# 223 (Hispanic)				
CTR	Allele-1	Allele-2	Others	Method
733	*006	*016:01	*016:02	SBT
762	*006	*016:01		NGS
3753	*006	*016/*114/*159/*165/*194/*235/*280	Allele-2: *291	SSO
3798	*006	*016		NGS
3966	*006	*016		SSP
4337	*006	*016		SSP
4345	*006	*016		
5133	*006	*016:01		NGS
5142	*006	*016:01:01		NGS
8022	*006	*016:01		NGS
8035	*006	*016:01		NGS
8047	*006	*016:01		NGS
8073	*006	*016:01:01		NGS
8086	*006	*016		SBT
8105	*006	*016:01		NGS
8135	*006	*016:01		NGS
8137	*006	*016		SBT

Table 3. MICA# 224 (Caucasian)				
CTR	Allele-1	Allele-2	Others	Method
733	*049:01:01	*052		SBT
762	*049:01	*052		NGS
3753	*009/*049/*105Q/*109/*115/*116/*123	*052		SSO
3798	*049	*052		NGS
3966	*049	*052		SSP
4337	*049	*052		SSP
4345	*009/*049/*109/*116	*002/*020/*023/*052/*055/*089/*090		
5133	*049:01	*052		NGS
5142	*049:01:01	*052		NGS
8022	*049:01	*052		NGS
8035	*049:01	*052		NGS
8047	*009:01/*049:01	*052		NGS
8073	*049:01:01	*052		NGS
8086	*049	*052	*052	SBT
8105	*049:01	*052		NGS
8135	*049:01	*052		NGS
8137	*049	*052	*052	SBT

Table 4. MICA# 225 (Unknown)				
CTR	Allele-1	Allele-2	Others	Method
733	*007:01	*029:01		SBT
762	*007:01	*029:01		NGS
3753	*007/*100/*213/*243/*244/*253/*25	*029/*162/*168	Allele-1:*029:02/*112:02/*272/*281	SSO
3798	*007	*029		NGS
3966	*007	*029		SSP
4337	*007	*029		SSP
4345	*007/*026/*100	*029		
5133	*007:01	*029:01		NGS
5142	*007:01:01	*029:01:NEW		NGS
8022	*007:01	*029:01		NGS
8035	*007:01	*029:01		NGS
8047	*007:01/*007:10/*112:02	*029:01/029:02		NGS
8073	*007:01	*029:01		NGS
8086	*007:01	*029		SBT
8105	*007:01	*029:01		NGS
8135	*007:01	*029:01		NGS
8137	*007:01	*029		SBT

Table 5. MICA# 226 (Caucasian)				
CTR	Allele-1	Allele-2	Others	Method
733	*004:01	*017:01	*257	SBT
762	*004:01	*017:01		NGS
3753	*004/*141/*151/*182/*199/*265/*269	*017/*095/*183/*207/*227/*233/*276	Allele-1: *287/*289	SSO
3798	*004	*017		NGS
3966	*004	*017		SSP
4337	*004	*017		SSP
4345	*004/*006/*009/*049/*105Q/*108/*109	*002/*020/*023/*052/*055/*089/*090		
5133	*004:01	*017:01		NGS
5142	*004:01:01	*017:01		NGS
8022	*004:01	*017:01		NGS
8035	*004:01	*017:01		NGS
8047	*004:01	*017:01		NGS
8073	*004:01:01	*017:01		NGS
8086	*004	*017		SBT
8105	*004:01	*017:01		NGS
8135	*004:01	*017:01		NGS
8137	*004	*017		SBT

Table 6. MICA# 227 (Hispanic)				
CTR	Allele-1	Allele-2	Others	Method
733	*009:01:01	*068:01:01		SBT
762	*009:01	*068:01		NGS
3753	*009/049/*105Q/*109/*115/*116/*123	*068		SSO
3798	*009	*068		NGS
3966	*009	*068		SSP
4337	*009:01	*068		SSP
4345	*009/*049/*109/*116	*002/*020/*023/*052/*055/*089/*090		
5133	*009:01	*068:01		NGS
5142	*009:01:11	*068:01:01		NGS
8022	*009:01	*068:01		NGS
8035	*009:01	*068:01		NGS
8047	*009:01/*049:01	*068:01		NGS
8073	*009:01	*068:01:01		NGS
8086	*009:01	*068		SBT
8105	*009:01	*068:01		NGS
8135	*009:01	*068:01		NGS
8137	*009:01	*068		SBT



Table 7. MICA# 228 (Hispanic)				
CTR	Allele-1	Allele-2	Others	Method
733	*011:01:01	*016:01:01		SBT
762	*011:01	*016:01		NGS
3753	*011/*152/*153/*171Q/*188/*254	*016/*114/*159/*165/*194/*235/*280	Allele-2: 291	SSO
3798	*011	*016		NGS
3966	*011	*016		SSP
4337	*011	*016		SSP
4345	*011	*016		
5133	*011:01	*016:01		NGS
5142	*011:01:08	*016:01:01		NGS
8022	*011:01	*016:01		NGS
8035	*011:01	*016:01		NGS
8047	*011:01/011:01Q	*016:01		NGS
8073	*011:01:08	*016:01:01		NGS
8086	*011	*016		SBT
8105	*011:01	*016:01		NGS
8135	*011:01	*016:01		NGS
8137	*011	*016		SBT