REPORT OF THE 5th UCLA INTERNATIONAL MICA EXCHANGE AUGUST 6, 2008

MICA

17-20

Four DNA samples (MICA#017-020) were shipped to participating laboratories on May 7, 2008, and MICA typing results were received from ten laboratories (Table 1). Seven laboratories used a reverse sequence-specific oligonucleotide (rSSO) hybridization method, two laboratories used sequencing-based testing (SBT), and one laboratory used sequence-specific priming (SSP) typing. The two sequencing laboratories also reported the number of GCT-repeats in exon 5.

We encourage the participating laboratories to resolve discrepancies so that the information can be shared to improve the reliability and resolution of MICA typing systems.

We thank all participating laboratories in the UCLA International MICA Exchange Program.

MICA#017 (Hispanic)

The consensus typing of this sample is MICA*002 and MICA*004. MICA*002 was assigned by Jackson using reverse SSO and MICA*00201 was reported by Stastny using sequencing-based typing. Seven laboratories did not resolve MICA*002 from MICA*020, MICA*052 or MICA*055, and one laboratory assigned MICA* 00901. Both MICA*004 and MICA*009 belong to the A6 group and differ by a single amino acid at position 181 (arginine to threonine).

MICA#018 (Asian)

MICA*008 and MICA*009 were assigned in complete concordance. Little and Stastny, the two laboratories using sequencing-based typing, reported identical numbers of GCT-repeats in exon 5. MICA*008 belongs to the MICA-A5.1 group which contains five triplet repeats plus one additional nucleotide

insertion, GGCT/AGCC. This causes a frame shift mutation, which results in premature termination by the stop codon (TAA) in the transmembrane domain.

MICA#019 (Hispanic)

The consensus typing of this sample is MICA*001 and MICA*011. One laboratory reported MICA*002/*20/*23/*052/*055 and MICA*007/*026. MICA*011 contains a valine at position 151 and an alanine at position 271 that are unique, compared with other MICA alleles.

MICA#020 (Asian)

MICA*008 and MICA*045 were assigned by 100% of the laboratories. Both sequencing laboratories reported identical numbers of GCT-repeats in exon 5. MICA*045 belongs to the MICAA4 group.

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MICA#017	CTR	Investigator	MICA* allele-1	MICA* allele-2	Others	Method	
(Hispanic)		Darke, Christophe	*00201/ *020/ *052	*004		SSP	The number of GCT-repeats (A4, A5, A6, A7, A9, A10) or five
		Jackson, Annette	*002	*004	*020	rSSO	
		Lee,Jar-How	*002/ *020	*004	020	rSSO	
		Lefor, W.M.	*002/ *020	*004		rSSO	
		Little,Ann-Margar	*00901 (A6)	*004 (A6)	*049	SBT ex2-5	GCT-repeats with an
		Pidwell. Diane J.	*002/ *020	*004	040	rSSO	additional G (A5.1) in exon 5 (trans- membrane region) are indicated in parenthesis (PNAS 1997, 94:1298-1303). rSSO - Luminex- based reverse sequence-specific oligonucleotide hybridization method SBT - sequencing- based testing SSP- sequence- specific priming
	_	Ray, Bryan	*002/ *020/ *023/ *052/ *055	*004		rSSO	
		Reed,Elaine	*002/ *020/ *055	*004		rSSO	
		Stastny,Peter	*00201 (A9)	*004 (A6)		SBT	
		Tyan,Dolly	*002/ *020/ *055	*004		rSSO	
MICA#018		Darke,Christophe	*00801	*00901		SSP	
(Asian)		Jackson, Annette	*008	*009	*049	rSSO	
		Lee,Jar-How	*008	*009/ *049	0.0	rSSO	
		Lefor, W.M.	*008	*009/ *049		rSSO	
		Little,Ann-Margar	*008 (A5.1)	*00901 (A6)	*049	SBT ex2-5	
		Pidwell, Diane J.	*008	*009/ *049	0.0	rSSO	
		Ray, Bryan	*008/ *027	*009/ *049		rSSO	
		Reed,Elaine	*008	*009/ *049		rSSO	
		Stastny,Peter	*00801 (A5.1)	*00901 (A6)	*049 (A6)	SBT	
		Tyan,Dolly	*008	*009/ *049	0.10 (1.10)	rSSO	
MICA#019		Darke,Christophe	*001	*011/ *030/ *047		SSP	
(Hispanic)		Jackson, Annette	*001	*011		rSSO	
		Lee,Jar-How	*001	*011		rSSO	
		Lefor, W.M.	*001	*011		rSSO	
		Little,Ann-Margar	*001	*011		SBT ex2-5	
		Pidwell, Diane J.	*001	*011		rSSO	
		Ray, Bryan	*002/ *020/*023/ *052/ *055	*007/ *026	*001	rSSO	
		Reed,Elaine	*001	*011		rSSO	
	791	Stastny,Peter	*001 (A4)	*011 (A6)		SBT	
		Tyan,Dolly	*001	*011		rSSO	
MICA#020 (Asian)		Darke, Christophe	*00801	*045		SSP	
		Jackson, Annette	*008	*045		rSSO	
		Lee,Jar-How	*008	*045		rSSO	
		Lefor, W.M.	*008	*045		rSSO	1
		Little,Ann-Margar	*008 (A5.1)	*045 (A4)		SBT ex2-5	1
		Pidwell, Diane J.	*008	*045		rSSO	1
		Ray, Bryan	*008/ *027	*045	*007/ *026	rSSO	1
		Reed,Elaine	*008	*045		rSSO	1
		Stastny,Peter	*008 (A5.1)	*045 (A4)		SBT	1
		Tyan,Dolly	*008	*045		rSSO	