HLA-A\*74

Product Insert Page 1 of 12

**101.433-06 – including** *Taq* **polymerase**, IFU-01. **101.433-06u – without** *Taq* **polymerase**, IFU-02.

Visit <u>www.olerup.com</u> for "Instructions for Use" (IFU)

Lot No.: 1G7 Lot-specific information

Olerup SSP® HLA-A\*74

Product number: 101.433-06 – including *Taq* polymerase

101.433-06u – without *Taq* polymerase

Lot number: 1G7

Expiry date: 2020-08-01

Number of tests: 6 Number of wells per test: 15+1

Storage - pre-aliquoted primers: dark at -20°C

PCR Master Mix: -20°C
 Adhesive PCR seals
 Product Insert
 RT

## This Product Description is only valid for Lot No. 1G7.

Complete product documentation consists of generic Instructions for Use (IFU), lot specific Product Insert, Worksheet and Certificate.

# CHANGES COMPARED TO THE PREVIOUS *OLERUP* SSP® HLA-A\*74 LOT (9D3)

The HLA-A\*74 kit is updated for new alleles to enable separation of:

- Null and Alternatively expressed alleles
- The product documentation has been updated for new alleles of IMGT 3.30

The format of the Worksheet has been changed.

This lot is manufactured using white plastic trays.

The HLA-A\*74 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup* SSP® HLA-A\*74 lot was made (Lot No. 9D3).

The HLA-A\*74 primer set is unchanged compared to the previous *Olerup* SSP® HLA-A\*74 (Lot No. 9D3).

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Lot No.: 1G7 Lot-specific information

Well **16** contains Negative Control primer pairs, that will amplify more than 95% of the Olerup SSP® HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

HLA-specific PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the positive control primer pair is 430 base pairs.

Length of PCR	105	200	105	80	75	80	85
product							
5'-primer <sup>1</sup>	164	340	440	45	45	43	36
•	5'-CAC3'	<sup>5'</sup> -Agg <sup>3'</sup>	<sup>5</sup> '-TTA3'	<sup>5</sup> '-Tgg <sup>3</sup> '	<sup>5</sup> '-Tgg <sup>3</sup> '	<sup>5</sup> '-Tgg <sup>3</sup> '	<sup>5'</sup> -TAC <sup>3'</sup>
							36
							<sup>5'</sup> -TAT <sup>3'</sup>
3'-primer <sup>2</sup>	231	2 <sup>nd</sup> I	507	59	58	57	47
•	5'-TgC3'	<sup>5'</sup> -AAA <sup>3'</sup>	<sup>5'</sup> -TTg <sup>3'</sup>	5'-CTC3'	<sup>5'</sup> -ggC <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-ACA3'
							48
							<sup>5'</sup> -gCA <sup>3'</sup>
							48
							<sup>5'</sup> -gCC <sup>3'</sup>
							52
							<sup>5'</sup> -TgT <sup>3'</sup>
A*	+	+	+				
B*	+	+	+				
C*	+	+	+				
DRB1				+	+		
DRB3				+	+		
DRB5				+			
DQB1					+		
DPB1						+	
DQA1							+

<sup>1</sup>The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2<sup>nd</sup> or 3<sup>rd</sup> exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide and codon numbering as on the <a href="https://www.ebi.ac.uk/imgt/hla">www.ebi.ac.uk/imgt/hla</a> web site. The sequence of the 3 terminal nucleotides of the primer is given.

 $^2\text{The}$  nucleotide position for HLA class I genes and the codon for HLA class II genes, in the  $2^{\text{nd}}$  or  $3^{\text{rd}}$  exon or the  $2^{\text{nd}}$  intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide and codon numbering as on the <a href="www.ebi.ac.uk/imgt/hla">www.ebi.ac.uk/imgt/hla</a> web site. The sequence of the 3 terminal nucleotides of the primer is given.

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**101.433-06 – including** *Taq* **polymerase**, IFU-01. **101.433-06u – without** *Taq* **polymerase**, IFU-02.

Visit <u>www.olerup.com</u> for "Instructions for Use" (IFU)

Lot No.: 1G7 Lot-specific information

## PRODUCT DESCRIPTION

## **HLA-A\*74 SSP subtyping**

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the A\*74:01 to A\*74:28 alleles.

#### PLATE LAYOUT

Each test consists of 16 PCR reactions in a 16 well cut PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	NC

The 16 well cut PCR plate is marked with 'HLA-A\*74' in silver/gray ink.

Well No. 1 is marked with the Lot No. '1G7'.

Wells 1 to 15 – HLA-A\*74 high resolution primers.

Well 16 – Negative Control (NC).

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded. The PCR plates are covered with a PCR-compatible foil.

**Please note:** When removing each 16 well PCR plate, make sure that the remaining plates stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

#### INTERPRETATION

Due to the sharing of sequence motifs between HLA-A alleles non-HLA-A\*74 alleles will be amplified by some primer mixes. For further details see Specificity Table.

#### **UNIQUELY IDENTIFIED ALLELES**

All the HLA-A\*74 alleles, i.e. **A\*74:01 to A\*74:28 alleles**, recognized by the HLA Nomenclature Committee in October 2017<sup>1,2</sup> will be amplified by the primers in the HLA-A\*74 subtyping kit<sup>2</sup>.

The HLA-A\*74 kit enables separation of the confirmed HLA-A\*74 alleles as listed in the IMGT/HLA database 3.23.0. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-A\*74 alleles is listed below.

The HLA-A\*74 kit also enables identification of null and alternatively expressed alleles.

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**101.433-06 – including** *Taq* **polymerase**, IFU-01. **101.433-06u – without** *Taq* **polymerase**, IFU-02.

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Lot No.: 1G7 Lot-specific information

The following HLA-A\*74 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix
A*74:08, 74:16:01-74:16:02	8

<sup>&</sup>lt;sup>1</sup>HLA-A alleles listed on the IMGT/HLA web page 2017-October-27, release 3.30.0, www.ebi.ac.uk/imgt/hla.

## **ALLELE CONFIRMATION STATUS**

Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
A*74:01:01	Confirmed	A*74:08	Confirmed	A*74:17	Confirmed	A*74:27	Unconfirmed
A*74:01:02	Unconfirmed	A*74:09	Confirmed	A*74:18	Unconfirmed		
A*74:01:03	Unconfirmed	A*74:10	Unconfirmed	A*74:19	Unconfirmed		
A*74:02:01:01	Confirmed	A*74:11	Confirmed	A*74:20	Unconfirmed		
A*74:02:01:02	Unconfirmed	A*74:12N	Unconfirmed	A*74:21	Unconfirmed		
A*74:03	Confirmed	A*74:13	Confirmed	A*74:22	Unconfirmed		
A*74:04	Unconfirmed	A*74:14N	Unconfirmed	A*74:23	Unconfirmed		
A*74:05	Confirmed	A*74:15	Unconfirmed	A*74:24	Unconfirmed		
A*74:06	Confirmed	A*74:16:01	Unconfirmed	A*74:25	Unconfirmed		
A*74:07	Confirmed	A*74:16:02	Unconfirmed	A*74:26	Unconfirmed		

<sup>&</sup>lt;sup>1</sup>Allele status "confirmed" or "unconfirmed" as listed on the IMGT/HLA web page 2016-January-19, release 3.23.0, <u>www.ebi.ac.uk/imgt/hla</u>.

#### **RESOLUTION IN HOMO- AND HETEROZYGOTES**

Results file with resolution in HLA-A\*74 homo- and heterozygotes is available upon request.

Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page <a href="http://hla.alleles.org/alleles/deleted.html">http://hla.alleles.org/alleles/deleted.html</a>.

Visit <u>www.olerup.com</u> for "Instructions for Use" (IFU)

Lot No.: 1G7

Lot-specific information

## **SPECIFICITY TABLE**

## **HLA-A\*74 SSP subtyping**

Specificities and sizes of the PCR products of the 15+1 primer mixes used for HLA-A\*74 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-A*74 alleles <sup>3</sup>	Other amplified HLA-A alleles
1	160 bp	800 bp	*74:01:01-74:09, 74:11- 74:28	*03:01:39, 29:19, 29:39, 29:48, 68:01:28, 68:130:02
2	285 bp	1070 bp	*74:01:01-74:01:06, 74:03, 74:04 <sup>?</sup> -74:06 <sup>?</sup> , 74:08 <sup>?</sup> -74:10 <sup>?</sup> , 74:11, 74:12N <sup>?</sup> , 74:13, 74:14N <sup>?</sup> - 74:20 <sup>?</sup> , 74:22 <sup>?</sup> -74:28 <sup>?</sup>	
3	285 bp	1070 bp	*74:02:01:01- 74:02:01:02, 74:04?- 74:06?, 74:07, 74:08?- 74:10?, 74:12N?, 74:14N?-74:20?, 74:21, 74:22?-74:28?	*03:01:39, 29:01:01:01- 29:01:06, 29:01:08-29:04, 29:05?-29:09?, 29:10:01, 29:10:02?, 29:11, 29:12?- 29:36?, 29:37, 29:38?, 29:39- 29:40, 29:42?-29:45?, 29:46, 29:47?-29:55?, 29:56-29:58, 29:59?-29:69?, 29:70-29:71, 29:72?-29:83?, 29:84, 29:85?- 29:86?, 29:87, 29:88?-29:89?, 29:90, 29:91?, 29:92-29:95, 29:96?-29:99?, 29:100, 29:101?-29:104?, 32:01:01:01-32:01:17, 32:01:19-32:01:21, 32:01:23- 32:03, 32:05-32:06, 32:07?- 32:16?, 32:17, 32:18?, 32:19N, 32:20?-32:26:01?, 32:26:02-32:27N, 32:28?- 32:30:01?, 32:30:02, 32:31?- 32:59?, 32:60-32:62, 32:63?- 32:64?, 32:65, 32:66?-32:67, 32:68-32:69, 32:70?-32:85?, 32:86, 32:87?-32:91?, 32:92N- 32:95, 32:96?-32:100?, 32:101Q-32:103, 68:01:28?, 68:130:02
4	135 bp	1070 bp	*74:04	*01:01:68*, 01:69:02*, 01:83:02, 02:01:09, 02:05:05, 02:06:07, 02:11:02, 02:35:03, 02:76:02, 02:243:02, 02:528:02, 03:01:03*, 03:23:01, 03:198, 11:70:02, 11:121, 24:02:76, 24:310:02, 26:07:02, 29:48, 33:01:02, 33:08-33:09, 68:30

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Lot No.: 1G7	Lot-specific information
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5	230 bp	1070 bp	*74:05	
6	155 bp	1070 bp	*74:06, 74:21	*29:19, 29:48
7	150 bp	800 bp	*74:07	*29:39
84	115 bp 160 bp	1070 bp	*74:08 *74:16:01-74:16:02	
9	170 bp	800 bp	*74:03, 74:14N	
10⁴	125 bp	1070 bp	*74:17	*03:27, 29:16, 32:75, 33:81, 33:122
	225 bp		*74:09	
11⁴	85 bp 200 bp	800 bp	*74:14N *74:10	*29:66, 32:62, <b>C*04:01:51, C*06:02:15, C*07:02:76</b>
12	130 bp	800 bp	*74:11	
13⁴	125 bp	1070 bp	*74:17	*03:27, 29:16, 32:75, 33:81, 33:122
	215 bp		*74:12N	
14	145 bp	1070 bp	*74:13	*03:01:39, 68:01:28, 68:130:02
15⁴	110 bp 185 bp	1070 bp	*74:15	*29:39
16 <sup>5</sup>	-	-	Negative Control	

<sup>1</sup>Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-A\*74 SSP typings.

When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits, the alleles listed are specified according to amplicon length.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherit feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

<sup>2</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

<sup>3</sup>For several HLA Class I alleles 1st and/or 4th exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

<sup>4</sup>HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

<sup>5</sup>Primer mix 16 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-



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**101.433-06 – including** *Taq* **polymerase**, IFU-01. **101.433-06u – without** *Taq* **polymerase**, IFU-02.

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Lot No.: 1G7 **Lot-specific information** 

specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 430 base pairs. '?', nucleotide sequence information not available for the primer matching sequence.

'w', may be weakly amplified.



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Lot No.: 1G7 Lot-specific information

## **PRIMER SPECIFICATION**

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	160	285	285	135	230	155	150	115	170	125	85	130
PCR product								160		225	200	
Length of int.	800	1070	1070	1070	1070	1070	800	1070	800	1070	800	800
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	180	67	67	144	98	180	180	448	180	113	180	211
. ,	5' -TTT 3'	5' -CCA 3'	5' -CCT 3'	5' -gCC 3'	5' -CTT 3'	5' -TTT 3'	5' -TTT 3'	5' -CCT 3'	5' -TTT 3'	5' -CCC 3'	5' -TTT 3'	<sup>5'</sup> -AgT <sup>3'</sup>
										454		
										5' -ACC 3'		
3'-primer(s) <sup>3</sup>	299	180	180	240	289	292	290	523	308	299	225	299
,	5' -CCA 3'	5' -TCA 3'	5' -TCA 3'	<sup>5'</sup> -ggA <sup>3'</sup>	<sup>5'</sup> -AgC <sup>3'</sup>	<sup>5'</sup> -gTg <sup>3'</sup>	5' -CAA 3'	5' -ACT 3'	5' -TCg 3'	5' -CCA 3'	5' -ATT 3'	5' -CCA 3
	299							565		538	341	
	5' -CCA 3'							5' -CAT 3'		5' -CAA 3'	5' -CgT 3'	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

107 11 11			
Well No.	13	14	15
Length of spec.	125	145	110
PCR product	215		185
Length of int.	1070	1070	1070
pos. control <sup>1</sup>			
5'-primer(s) <sup>2</sup>	364	180	219
	<sup>5'</sup> gA <sup>3'</sup>	<sup>5'</sup> -TTT <sup>3'</sup>	<sup>5'</sup> -gCA <sup>3'</sup>
	454		448
	5' -ACC 3'		5' -CCT 3'
3'-primer(s) <sup>3</sup>	538	282	290
	5' -CAA 3'	<sup>5'</sup> -gAC <sup>3'</sup>	5' -CAA 3'
			594
			5' -CCC 3'
Well No.	13	14	15

<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

<sup>2</sup>The nucleotide position matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the <a href="www.ebi.ac.uk/imgt/hla">www.ebi.ac.uk/imgt/hla</a> web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>3</sup>The nucleotide position matching the specificity-determining 3'-end of the primer is given in the antisense direction. Nucleotide numbering as on the <a href="www.ebi.ac.uk/imgt/hla">www.ebi.ac.uk/imgt/hla</a> web site. The sequence of the 3 terminal nucleotides of the primer is given.

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**101.433-06 – including** Taq **polymerase**, IFU-01. **101.433-06u – without** Taq **polymerase**, IFU-02.

Visit <u>www.olerup.com</u> for "Instructions for Use" (IFU)

Lot No.: 1G7 Lot-specific information

	t No.: 1G7 Lot-specific information  CELL LINE VALIDATION SHEET																		
				A*74 S							_		-						
								<del>- 1</del>				Vе	II						
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
				Prod. No.:	201323801	201323802	201323803	201549504	201323805	201323806	201323807	201323808	201323809	201549510	201549511	201323812	201323813	201323814	201549516
	IHW	C cell line <sup>1</sup>	A*	A*				.,	-		.,	-		.,	- '	.,	.,		
1	9001		*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2		LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3		E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4		GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5		KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11		PITOUT	*29:02		-	Ξ	+	-	-	-	-	-	-	-	-	E	E	-	-
12	9052		*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13		JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14		OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075		*24:02		-	-	-	-	-	<u>-</u>	-	-	-	-	-	-	-	-	-
16		SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17		CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18		32367	*33:03	*74:01	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
19		BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20		SLE005	*02:01		-	Ŀ	Ŀ	<u> </u>	Ŀ	Ŀ	<u> </u>	Ŀ	-	_	_	<u> </u>	<u> </u>	<u> </u>	
21		AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22		KOSE	*02:01	*0.4.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124		*02:01	*34:01	_	-	÷	-	-	-	-	-	_	-	-	-	-	-	_
24		JBUSH	*32:01		_	-	+	-	-	-	-	-	_	-	-	-	-	-	-
25	9049	WT49	*33:01		_	Ŀ	-	-	-	-	-	-	-	-	-	-	-	-	-
26		CH1007	*02:05 *24:10	*20.01	-	-	÷	-	-	-	-	-	-	-	-	-	-	-	-
27 28		BEL5GB		*29:01 *29:02	-	-	+	-	-	·	-	-	Ε-	-	-	-	-	-	-
29	9050		*02:01 *29:02	29:02	-	-	+	-	-	÷	-	÷	-	-	-	-	-	-	-
30	9030		*30:01	*68:02	-		+	-		E	H	E	H	H	-	H	H	<u> </u>	E
31		DUCAF	*30:02	00.02	-	÷	÷	H	÷	÷	H	÷	H	H	÷	H	H	H	-
32	9297		*02:01		-	H	÷	-	÷	E	-	E	<u>-</u>	-	-	-	-	-	-
33		MT14B	*31:01		-	-		-	-	-	-	-	-	-	-	-	-	-	-
34	9104		*31:01		-	-		-	-	-	-	-	-	-	-	-	-	-	-
35		SSTO	*32:01		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
36	9024		*02:06	*11:01	-	-	÷	-	-	-	-	-	-	-	-	-	-	-	-
37		HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099		*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315		*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40		WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41		H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42		TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43		T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057		*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45		SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46		SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47		TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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**101.433-06 – including** *Taq* **polymerase**, IFU-01. **101.433-06u – without** *Taq* **polymerase**, IFU-02.

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Lot No.: 1G7 Lot-specific information

<sup>1</sup>The provided cell line HLA specificities are retrieved from the <a href="http://www.ihwg.org/hla">http://www.ihwg.org/hla</a> web site. The specificity of an individual cell line may thus be subject to change.

<sup>2</sup>The specificity of each primer solution in the kit has been tested against 48 well characterized cell line DNAs and where applicable, additional cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 4 to 8, 10 to 13 and 15 were available. The specificities of the primers in primer solutions 4, 6, 7, 11 and 15 were tested by separately adding one 5'-primer, respectively one or two 3'-primers.

In primer solutions 5 and 8 it was only possible to test the 5'-primer, the 3'-primer was not possible to test. In primer solutions 10, 12 and 13 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solution 1, 11 and 15 one 3'-primer was not possible to test.



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**101.433-06 – including** *Taq* **polymerase**, IFU-01. **101.433-06u – without** *Taq* **polymerase**, IFU-02.

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Lot No.: 1G7 Lot-specific information

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