Product Insert

**101.553-06 – including Taq pol.,** IFU-01 **101.553-06u – without Taq pol.,** IFU-02 Visit <u>www.olerup.com</u> for "Instructions for Use" (IFU)

Lot No.: 1H5

Lot-specific information

# Olerup SSP® HLA-B\*81

Product number:	101.553-06 – including <i>Taq</i> pol.
	101.553-06u – without <i>Taq</i> pol.
Lot number:	1H5
Expiry date:	2021-05-01
Number of tests:	6
Number of wells per test:	9+1
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
<ul> <li>Adhesive PCR seals</li> </ul>	RT
- Product Insert	RT

# This Product Description is only valid for Lot No. 1H5.

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-B\*81 LOT (8E6).

The HLA-B\*81 kit is updated for new alleles to enable separation of:

- Confirmed<sup>1</sup> alleles as listed in the IMGT/HLA database
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles.

The format of the Worksheet has been changed.

<sup>1</sup>As described in section Uniquely Identified Alleles.

The HLA-B\*81 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup* SSP<sup>®</sup> HLA-B\*81 lot was made (Lot **No. 8E6)**. The kit design is based on IMGT/HLA database 3.33.0.

The HLA-B\*81 primer set is unchanged compared to the previous *Olerup* SSP<sup>®</sup> HLA-B\*81 (Lot No. 8E6).

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Well **10** contains <u>Negative Control primer pairs</u>, that will amplify more than 95% of the *Olerup* SSP<sup>®</sup> 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
•	<sup>5'</sup> -CAC <sup>3'</sup>	<sup>5'</sup> -Agg <sup>3'</sup>	<sup>5'</sup> -TTA3'	⁵'-Tgg³'	⁵'-Tgg³'	⁵'-Tgg³'	<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
	<sup>5′</sup> -TgC³′	<sup>5'</sup> -AAA <sup>3'</sup>	<sup>5'</sup> -TTg <sup>3'</sup>	<sup>5'</sup> -CTC <sup>3'</sup>	<sup>5'</sup> -ggC <sup>3'</sup>	<sup>5'</sup> -CTC <sup>3'</sup>	<sup>5'</sup> -ACA <sup>3'</sup>
							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 codonnumbering as on the <u>www.ebi.ac.uk/imgt/hla</u> web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>2</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 or the 2<sup>nd</sup> intron, matching the specificitydetermining 3'-end of the primer is given in the anti-sense direction. Nucleotide and codon numbering as on the <u>www.ebi.ac.uk/imgt/hla</u> web site. The sequence of the 3 terminal nucleotides of the primer is given. **101.553-06 – including Taq pol.**, IFU-01 **101.553-06u – without Taq pol.**, IFU-02 Visit <u>www.olerup.com</u> for "Instructions for Use" (IFU)

Lot No.: 1H5

# Lot-specific information PRODUCT DESCRIPTION

# HLA-B\*81 SSP typing

# CONTENT

The primer set contains 5'- and 3'-primers for separating the B\*81:01 to B\*81:08 alleles.

# **PLATE LAYOUT**

Each HLA-B\*81 test consists of 10 PCR reactions in a 16 well cut PCR plate. Wells 11 to 16 are empty.

1	2	3	4	5	6	7	8
9	NC	empty	empty	empty	empty	empty	empty

The 16 well PCR plate is marked with 'HLA-B\*81' in silver/gray ink.

Well No. 1 is marked with the Lot No. '1H5'.

Wells 1 to 9 – HLA-B\*81 high resolution primers.

Well 10 – 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 heat-sealed with a PCR-compatible foil.

**Please note:** When removing each 16 well PCR plate, make sure that the remaining plates stay sealed. 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-B alleles non-HLA-B\*81 alleles will be amplified by some primer mixes. For further details see Specificity Table.

## **UNIQUELY IDENTIFIED ALLELES**

All the HLA-B\*81 alleles, i.e. **B\*81:01 to B\*81:08**, recognized by the HLA Nomenclature Committee in July 2018<sup>1,2</sup> will be amplified by the primers in the HLA-B\*81 SSP kit<sup>3</sup>.

The HLA-B\*81 kit enables separation of the confirmed HLA-B\*81 alleles as listed in the IMGT/HLA database 3.33.0. 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-B\*81 alleles is listed below.

The HLA-B\*81 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

#### Product Insert

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#### Lot No.: 1H5

# Lot-specific information

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2018-July-11, release 3.33.0, <u>www.ebi.ac.uk/imgt/hla</u>.

<sup>2</sup>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 <u>http://hla.alleles.org/alleles/deleted.html</u>.

<sup>3</sup>The B\*81:02 and the B\*07:202 and B\*07:279 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution kit and/or HLA-B\*07 high resolution kit.

# **ALLELE CONFIRMATION STATUS**

Allele	Status <sup>1</sup>
B*81:01:01	Confirmed
B*81:01:02	Unconfirmed
B*81:02	Confirmed
B*81:03	Unconfirmed
B*81:04N	Unconfirmed
B*81:05	Confirmed
B*81:06	Unconfirmed
B*81:07	Unconfirmed
B*81:08	Unconfirmed

<sup>1</sup>Allele status "confirmed" or "unconfirmed" as listed on the IMGT/HLA web page 2018-July-11, release 3.33.0, <u>www.ebi.ac.uk/imgt/hla</u>.

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

Results file with resolution in HLA-B\*81 homo- and heterozygotes is available upon request.

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# Lot-specific information SPECIFICITY TABLE

# HLA-B\*81 SSP subtyping

Specificities and sizes of the PCR products of the 9+1 primer mixes used for HLA-B\*81 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA- B*81 alleles <sup>3</sup>	Other amplified HLA-B alleles
1	175 bp	800 bp	*81:01:01-81:08	*07:174, 07:202, 07:222, 07:279, 27:24, 40:31, 40:45, 40:80, 48:01:01:01- 48:01:06, 48:04:01-48:04:02, 48:06- 48:07, 48:09, 48:11, 48:15-48:16, 48:18- 48:20, 48:22, 48:24, 48:27-48:39, 48:41- 48:46
2	410 bp	1070 bp	*81:01:01- 81:01:02, 81:03 <sup>?</sup> - 81:04N <sup>?</sup> , 81:05, 81:06 <sup>?</sup> -81:08 <sup>?</sup>	*07:65, 27:01-27:11, 27:13-27:15, 27:17, 27:19-27:21, 27:24-27:28, 27:30-27:38, 27:40-27:58, 27:60-27:76, 27:78-27:91, 27:93-27:118, 27:120-27:128, 27:130- 27:136, 27:138-27:152, 27:154-27:175, 35:76, 35:186, 35:229, 35:368, 37:60, 44:90, 44:97, 54:01:01-54:29, 54:31- 54:38, 55:01:01-55:05, 55:07-55:17, 55:19-55:77, 55:79-55:89N, 56:01:01:01-56:16, 56:18-56:22, 56:24- 56:32, 56:34-56:41, 56:43, 56:45-56:53, 56:55:01:01-56:57, 82:01:01:01-82:03, 83:01
3 <sup>5,6</sup>	405 bp	1070 bp	*81:02, 81:03 <sup>?</sup> - 81:04N <sup>?</sup> , 81:06 <sup>?</sup> - 81:08 <sup>?</sup>	*07:02:01:01-07:02:55, 07:04:01-07:07, 07:09-07:15, 07:17-07:26, 07:28-07:31, 07:33:01-07:36, 07:39-07:46, 07:48- 07:49N, 07:51-07:64, 07:66-07:68:03, 07:70-07:84, 07:86-07:179, 07:181N- 07:206, 07:208-07:218, 07:220-07:227, 07:229-07:231N, 07:233-07:270, 07:272N-07:305, 07:307-07:316N, 08:123, 08:132, 14:21, 14:57, 38:26, 42:01:01-42:02:01:02, 42:04-42:06, 42:08-42:10, 42:12-42:23, 42:25, 45:06, 67:01:01-67:07, 73:01-73:02
4	190 bp	1070 bp	*81:01:01-81:08	*07:147, 07:151:01-07:151:02, 07:202, 07:279, 08:120, 40:31, 40:80, 40:287, 41:38, 48:01:01:01-48:01:06, 48:04:01- 48:04:02, 48:06-48:07, 48:09, 48:11, 48:14-48:16, 48:18-48:20, 48:22, 48:24, 48:27-48:39, 48:41-48:43, 48:45-48:46, <b>C*07:294, C*07:526, C*07:530</b>
54	105 bp 165 bp	1070 bp	*81:05 *81:03	*07:83 *15:20, 15:228, 15:305, 15:435, 35:01:01:01-35:01:27, 35:01:29- 35:01:46, 35:01:48-35:30, 35:32:01- 35:34, 35:36-35:42:02, 35:45, 35:47- 35:56, 35:58-35:59:02, 35:61:01-35:72,

#### **Product Insert**

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Lot No.:	1H5	Lot-	specific info	ormation
				35:74-35:78, 35:80-35:86, 35:88- 35:134N, 35:136-35:184, 35:186- 35:278, 35:280-35:358, 35:360-35:372, 48:02:01-48:02:03, 51:01:01- 51:01:55, 51:01:57-51:24:05, 51:26- 51:41N, 51:43-51:46, 51:48-51:156, 51:158:01-51:163, 51:165-51:219, 51:221-51:236, 52:01:01:01-52:06:03, 52:08-52:76, 53:01:01-53:50, 56:05:01- 56:05:02, 56:21, 56:36, 58:01:01:01- 58:01:21, 58:01:23-58:02:02, 58:04- 58:10N, 58:12-58:19, 58:21-58:29, 58:31N-58:93N, 67:05, 78:01:01:01, 78:01:02-78:09
<b>6</b> <sup>4</sup>	80 bp	1070 bp	*81:04N	
7	105 bp 165 bp	1070 bp	*81:05 *81:06	*07:83 *07:13, 07:110, 37:52, 38:11, 48:36, 54:02, 67:02, <b>A*26:142, C*03:137,</b> <b>C*03:182, C*07:102<sup>w</sup>, C*07:351,</b> <b>C*12:82, C*16:116</b>
8	140 bp	1070 bp	*81:07	
<b>e</b> 1	405 hr	1070 hr	*04.00	*07.40 07.07.04 07.07.00 07.50
94	125 bp	1070 bp	*81:08	*07:16, 07:37:01-07:37:02, 07:50, 07:75:01:01-07:75:01:02, 07:91, 07:207, 07:228:01-07:228:02, 07:306, 08:23, 08:54:01-08:54:02, 08:110, 14:14, 14:18, 15:03:01:01-15:03:07, 15:09:01- 15:10:04, 15:18:01:01-15:18:07, 15:29, 15:37, 15:47:01-15:47:02, 15:49, 15:51- 15:52, 15:54, 15:62, 15:64:01-15:64:02, 15:68-15:69, 15:72, 15:74, 15:80, 15:90- 15:91, 15:93, 15:98-15:99, 15:103, 15:108, 15:114, 15:123-15:124, 15:127, 15:131-15:134, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 15:197:01-15:198, 15:200, 15:210, 15:220-15:221, 15:226N, 15:229, 15:235, 15:238, 15:242:01-15:243, 15:252-15:253, 15:259, 15:263, 15:266, 15:274-15:275:02, 15:281-15:282, 15:290, 15:292-15:293, 15:306-15:307, 15:311-15:314, 15:323, 15:329, 15:335, 15:337-15:338, 15:351, 15:354, 15:369, 15:379-15:380N, 15:382, 15:388- 15:389, 15:414, 15:426-15:427, 15:433, 15:435, 15:439, 15:444-15:445, 15:447- 15:448, 18:37:01-18:37:02, 18:125, 27:18, 27:23, 27:44, 27:131, 35:25- 35:26, 35:49, 35:361, 38:67, 39:05:01:01-39:05:03, 39:07-39:08, 39:11, 39:13:01-39:13:02, 39:20, 39:37, 39:49, 39:55-39:56, 39:113, 39:118, 40:12, 40:46, 40:93, 42:11, 48:01:01:01- 48:40, 48:42-48:46, 55:18, 55:31, 56:23, 56:42, 56:44, 56:54

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Lot No.: <b>1H5</b>		Lot-specific information	
10 <sup>7</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-B\*81 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 3 may have tendency of unspecific amplification.

<sup>6</sup>Primer mix 3 may have ten may have a tendency of giving rise to primer oligomer formation.

<sup>7</sup>Primer mix 10 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-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.

'w', might be weakly amplified.

"?", the nucleotide sequence of the primer matching region is not known.

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# Lot-specific information PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9
Length of spec.	175	410	405	190	105	80	165	140	125
PCR product					165	105			
Length of int.	800	1070	1070	1070	1070	1070	1070	1070	1070
pos. control <sup>1</sup>									
5'-primer(s) <sup>2</sup>	363	41	44	363	206	206	103	363	206
	<sup>5'</sup> -AgC <sup>3'</sup>	<sup>5'</sup> -CTg <sup>3'</sup>	<sup>5'</sup> -ggC <sup>3'</sup>	<sup>5'</sup> -AgC <sup>3'</sup>	<sup>5'</sup> -AgA <sup>3'</sup>	<sup>5'</sup> -AgA <sup>3'</sup>	5' -CCT 3'	<sup>5'</sup> -AgC <sup>3'</sup>	<sup>5'</sup> -AgA <sup>3'</sup>
					652		103		
					<sup>5'</sup> -CCg <sup>3'</sup>		<sup>5'</sup> -CCT <sup>3'</sup>		
3'-primer(s) <sup>3</sup>	499	282	282	512	272	244	226	461	292
	<sup>5'</sup> -ggA <sup>3'</sup>	5' -gCC 3'	5' -gCC 3'	<sup>5'</sup> -CCA <sup>3'</sup>	<sup>5'</sup> -TgA <sup>3'</sup>	<sup>5'</sup> -CTA <sup>3'</sup>	5' -CAC 3'	5' -gCT 3'	<sup>5'</sup> -gTA <sup>3'</sup>
					774	272			
					<sup>5'</sup> -ggT <sup>3'</sup>	<sup>5'</sup> -TgA <sup>3'</sup>			
Well No.	1	2	3	4	5	6	7	8	9

<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 <u>www.ebi.ac.uk/imgt/hla</u> 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 anti-sense direction. Nucleotide numbering as on the <u>www.ebi.ac.uk/imgt/hla</u> web site. The sequence of the 3 terminal nucleotides of the primer is given.

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Lot-specific information

		CELL LIN	IE VAI	LIDAT	10	Ν	Sł	ΙE	E1	Γ			
		HLA-	·B*81 S	SP prir	ne	r s	et <sup>2</sup>						
								1	Ne				
					1	2	3	4	5	6	7	8	9
				Prod. No.:	201548301	201548302	201548303	201561904	201561905	201548306	201548307	201548308	201561909
	111/1	/C cell line <sup>1</sup>		 B*									C N
1	9001		*07:02		_	-	+	-	-	-	-	-	-
2		LK707	*52:01	*73:01	-	-	+	-	+	-	-	-	-
2		E4181324	*52:01	73.01	-	-	- -	-		-	-	-	-
4		GU373	*15:10	*53:01	-	-	-	-	++	-	-	-	+
4 5		KAS011	*37:01	55.01	-	-	-	-	- T	-	-	-	T
				*51.01	-					-	-		-
6	9353		*39:01	*51:01	-	-	-	-	+	-	-	-	-
7 8	9020 9025		*18:01		-	-	-	-	-		-		
8 9		YAR			-	-	•	•	+	-	-	•	-
-			*38:01		-		-					-	-
10		LKT3	*54:01		-	+	-	-	-	-	-	-	-
11 12	9051	PITOUT	*44:03		-	•	-	-	•	-	-	-	-
			*57:01		-		-	-		-	-	-	
13		JESTHOM	*27:05	*45.00	-	+	-	-	-	-	-	-	-
14		OLGA	*15:01	*15:20	-	-	-	-	+	-	-	-	-
15	9075		*40:01		-	-	•	-	-	-	-	-	-
16		SWEIG007	*40:02	+== 04	-	-	-	-	-	-	-	-	-
17		CTM3953540	*08:01	*55:01	-	+	•	-	-	•	-	•	-
18		32367	*14:01	*56:01	-	+	-	-	-	•	-	-	-
19		BM16	*18:01		-	-	-	-	-	•	-	-	-
20		SLE005	*40:01		-	•	•	•	•	•	•	•	-
21		AMALA	*15:01		-	-	-	-	-	•	-	-	-
22		KOSE	*35:03		-	-	-	-	+	•	-	-	-
23	9124		*40:02	*56:02	-	+	-	-	-	•	-	-	-
24		JBUSH	*38:01		-	-	-	-	-	•	-	-	-
25		IBW9	*14:02		-	-	-	-	-	•	-	-	-
26		WT49	*58:01	*= :	-	-	-	-	+	•	-	-	-
27		CH1007	*07:05	*51:01	-	-	+	-	+	•	-	-	-
28		BEL5GB	*44:02	*44:03	-	-	-	-	-	•	-	-	-
29		MOU	*44:03		-	-	-	-	-	•	-	-	-
30	9021		*42:01		-	-	+	-	-	•	-	-	-
31		DUCAF	*18:01		-	-	-	-	-	•	-	-	-
32	9297		*41:02		-	-	-	-	-	-	-	-	-
33		MT14B	*40:01		-	-	-	-	-	-	-	-	-
34		DHIF	*38:01		-	-	-	-	-	-	-	-	-
35		SSTO	*44:02	to= :	-	-	-	-	-	-	-	-	-
36		KT17	*15:01	*35:01	-	-	-	-	+	-	-	-	-
37		HHKB	*07:02		-	-	+	-	-	-	-	-	-
38	9099		*15:01	105 -	-	-	-	-	-	-	-	-	-
39	9315		*08:01	*27:05	-	+	-	-	-	-	-	-	-
40		WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-
41		H0301	*14:02		-	-	-	-	-	-	-	-	-
42		TAB089	*46:01		-	-	-	-	-	-	-	-	-
43		T7526	*46:01		-	-	-	-	-	-	-	-	-
44	9057		*38:01		-	-	-	-	-	-	-	-	-
45		SHJO	*42:01	*50:01	-	-	+	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	+	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	+	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	+	-	-	-	-

#### **Product Insert**

## **101.553-06 – including Taq pol.**, IFU-01 **101.553-06u – without Taq pol.**, IFU-02

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

#### Lot No.: 1H5

#### Lot-specific information

<sup>1</sup>The provided cell line HLA specificities are retrieved from the <u>http://www.ihwg.org/hla</u> 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 6, 7 and 8 were available. The specificity of the primers in primer solution 7 were tested by separately adding one additional 5'-primer, respectively two additional 3'-primers. In primer solutions 6 and 8 it was only possible to test the 5'-primer, the 3'-primers were not possible to test. One 3'-primer in primer solution 5 was not possible to test. In addition, one 5'-primer in primer solution 5 was tested by separately adding an additional 3'-primer.



**Product Insert** 

**101.553-06 – including** *Taq* **pol.,** IFU-01 **101.553-06u – without** *Taq* **pol.,** IFU-02

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

Lot No.: 1H5

Lot-specific information

Product Insert

**101.553-06 – including Taq pol.,** IFU-01 **101.553-06u – without Taq pol.,** IFU-02 Visit <u>www.olerup.com</u> for "Instructions for Use" (IFU)

Lot No.: 1H5

Lot-specific information

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