

Lot No.: 6N3

Lot-specific information
Olerup SSP[®] HLA-A*66

Product number: 101.427-06 – including Taq pol.
 101.427-06u – without Taq pol.
Lot number: 6N3
Expiry date: 2026-09-01
Number of tests: 6
Number of wells per test: 15+1
Storage - pre-aliquoted primers: dark, between -15°C and -25°C
 - PCR Master Mix: between -15°C and -25°C
 - Adhesive PCR seals RT

This Product Description is only valid for Lot No. 6N3.

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*66 Lot (8K5)**

- The product documentation has been updated for new alleles of IMGT 3.49.0.
- The kit resolution focuses on common and well documented (CWD) alleles¹.

¹As described in section Uniquely Identified Alleles.

The HLA-A*66 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous Olerup SSP[®] HLA-A*66 lot was made (**Lot No. 8K5**).

The primers of the wells detailed below have been exchanged, added or modified compared to the previous lot.

Well	5'-primer	3'-primer	rationale
12	-	-	Exchanged positive control primer pair, for improved HLA-specific amplification.

¹S. J. Mack, P. Cano, J. A. Hollenbach et al.
 Common and well-documented HLA alleles: 2012 update to the CWD catalogue. Tissue Antigens, 2013, 81, 194–203



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Well **16** contains Negative Control primer pairs, that will amplify the majority 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 200 base pairs.

Length of PCR product	105	200	105	80	75	80	85
5'-primer¹	164	340	440	45	45	43	36
	5'-CAC ^{3'}	5'-Agg ^{3'}	5'-TTA ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-TAC ^{3'}
							36
							5'-TAT ^{3'}
3'-primer²	231	2nd I	507	59	58	57	47
	5'-TgC ^{3'}	5'-AAA ^{3'}	5'-TTg ^{3'}	5'-CTC ^{3'}	5'-ggC ^{3'}	5'-CTC ^{3'}	5'-ACA ^{3'}
							48
							5'-gCA ^{3'}
							48
							5'-gCC ^{3'}
							52
							5'-TgT ^{3'}
A*	+	+	+				
B*	+	+	+				
C*	+	+	+				
DRB1				+	+		
DRB3				+	+		
DRB5				+			
DQB1					+		
DPB1						+	
DQA1							+

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

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



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Lot-specific information
PRODUCT DESCRIPTION

HLA-A*66 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-A*66:01 to A*66:46 alleles.

PLATE LAYOUT

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

Note: This lot was manufactured using white plastic trays.

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*66’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘6N3’.

Wells 1 to 15 – HLA-A*66 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 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-A alleles non-HLA-A*66 alleles will be amplified by some primer mixes. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the HLA-A*66 alleles, i.e. **A*66:01 to A*66:46 alleles**, recognized by the HLA Nomenclature Committee in July 2022^{1,2} will give rise to unique amplification patterns by the primers in the HLA-A*66 subtyping kit.

The HLA-A*66 kit enables separation of the confirmed HLA-A*66 alleles as listed in the IMGT/HLA database 3.26.0. 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*66 alleles is listed below.

The HLA-A*66 kit also enables identification of many null and alternatively expressed alleles.



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The following HLA-A*66 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix
A*66:08, 66:17	12
A*66:13, 66:19	13

¹HLA-A alleles listed on the IMGT/HLA web page 2022-July-12, release 3.49.0, www.ebi.ac.uk/imgt/hla.

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

ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*66:01:01:01	Confirmed	A*66:08	Unconfirmed	A*66:18	Unconfirmed
A*66:01:01:02	Unconfirmed	A*66:09	Confirmed	A*66:19	Unconfirmed
A*66:01:02	Unconfirmed	A*66:10	Unconfirmed	A*66:20	Unconfirmed
A*66:01:03	Unconfirmed	A*66:11	Confirmed	A*66:21	Unconfirmed
A*66:02	Confirmed	A*66:12	Confirmed	A*66:22	Confirmed
A*66:03	Confirmed	A*66:13	Confirmed	A*66:23	Unconfirmed
A*66:04	Unconfirmed	A*66:14	Unconfirmed	A*66:24	Unconfirmed
A*66:05	Unconfirmed	A*66:15	Unconfirmed	A*66:25	Unconfirmed
A*66:06	Unconfirmed	A*66:16	Unconfirmed	A*66:26Q	Unconfirmed
A*66:07	Unconfirmed	A*66:17	Confirmed	A*66:27N	Unconfirmed

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2016-October-14, release 3.26.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-A*66 homo- and heterozygotes is available upon request.



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Lot-specific information
SPECIFICITY TABLE

HLA-A*66 SSP subtyping

Specificities and sizes of the PCR products of the 15+1 primer mixes used for HLA-A*66 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-A*66 alleles ³	Other amplified HLA-A alleles
1 ⁵	180 bp	800 bp	*66:01:01:01-66:01:07, 66:04-66:15, 66:17-66:20, 66:22-66:24, 66:27N, 66:29-66:33, 66:35-66:38, 66:41-66:42, 66:44-66:46	*01:01:56, 02:135, 25:01:01:01-25:01:08, 25:01:10-25:01:16, 25:01:18-25:05, 25:07-25:35, 25:37-25:42N, 25:44-25:49N, 25:51, 25:53-25:58, 25:60-25:82, 26:01:01:01-26:01:58, 26:01:60-26:03:01:02, 26:05-26:08:03, 26:10-26:43:02, 26:45-26:74, 26:76-26:77, 26:79-26:90, 26:92-26:203, 26:206:01N-26:223, 43:01-43:03
2 ⁴	100 bp	1070 bp	*66:01:01:01-66:01:07, 66:04, 66:06-66:11, 66:13-66:14, 66:17-66:20, 66:22-66:24, 66:27N, 66:29-66:33, 66:35-66:38, 66:40-66:42, 66:44-66:46	*01:13, 01:17, 01:176, 01:302, 02:741, 03:63, 03:88, 03:382, 11:01:01:01-11:01:67, 11:01:69-11:01:72, 11:01:74-11:01:75, 11:01:77-11:11, 11:13-11:16, 11:20-11:27, 11:29-11:39, 11:41-11:52Q, 11:54:01-11:95, 11:97, 11:99N-11:105, 11:107-11:120, 11:122-11:158, 11:160-11:177, 11:179-11:249, 11:251N-11:290, 11:292-11:300, 11:302:01-11:307, 11:309-11:311, 11:313Q-11:324, 11:326-11:398, 11:400N-11:428, 25:02, 25:75, 26:13, 26:19, 26:33, 29:66, 30:125, 30:140, 34:01:01:01-34:06, 34:08, 34:10N-34:30N, 68:227, 69:02, C*07:335
3	430 bp	1070 bp	*66:01:01:01-66:02:01:03, 66:04, 66:06-66:27N, 66:29-66:38, 66:40-66:46	*02:11:01:01-02:11:12, 02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:69, 02:78, 02:103, 02:128, 02:297-02:298, 02:308, 02:457, 02:490N, 02:494, 02:503, 02:514N, 02:579-02:580, 02:584, 02:589, 02:701, 02:705, 02:714, 02:738, 02:741, 02:751, 02:754, 02:757, 02:773N, 02:808, 02:815, 02:821, 02:893, 02:906-02:907, 02:923, 02:926, 02:932, 02:940, 02:959, 02:964, 02:986, 02:991, 02:1031N, 03:242, 03:312, 23:13, 24:07:01:01-24:07:04, 24:19, 24:24, 24:112, 24:131, 24:288, 24:290, 24:294Q, 24:339, 24:347:01-24:347:02, 24:387, 24:406, 24:453, 24:457, 24:477, 24:489, 24:510, 24:528, 24:541, 24:544, 24:566, 24:569, 24:574, 26:13, 26:19, 29:155, 34:01:01:01-34:13, 34:15-34:30N, 68:01:01:01-68:02:23, 68:04:01-68:04:02, 68:06-68:14, 68:16-68:19, 68:21:01-68:30, 68:32-68:56:02, 68:58:01-68:89, 68:91-68:108, 68:110-68:179, 68:181N-68:205N, 68:207-68:248, 68:250-68:254, 68:256-68:276Q, 68:278-68:294, 69:01:01:01-69:09



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For *In Vitro* Diagnostic Use

MA123 v02 SSP PI Template

Date: October 2022, Rev. No: 00

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4	175 bp	1070 bp	*66:02:01:01-66:03:01:03, 66:16, 66:21, 66:25, 66:28N, 66:34, 66:39N-66:40, 66:43
5	190 bp	800 bp	*01:134, 01:229, 02:01:09, 02:03:11, 02:05:05, 02:06:07, 02:07:12, 02:50, 02:76:02-02:76:03, 02:122, 02:243:02-02:243:03, 02:528:02, 02:591:01, 03:09, 03:89:02, 03:108, 03:172, 03:198, 03:330N, 11:06, 11:18, 11:312, 24:28, 24:89, 24:379, 26:03:01:01-26:03:01:02, 26:06, 26:21, 26:30, 26:78, 26:92, 26:111, 26:177, 26:193, 29:19, 29:48, 29:159, 33:24, 33:184, 68:05, 68:15, 68:20, 68:255, 74:06, 74:21, 74:39
6⁴	225 bp 80 bp	800 bp	*66:27N *66:01:01:01-66:01:07, 66:04-66:10, 66:13-66:14, 66:17-66:20, 66:22-66:24, 66:27N, 66:29-66:33, 66:35-66:38, 66:40-66:42, 66:44-66:46 *03:91N, 11:215N, 32:112N, 33:154N *01:13, 01:28, 01:176, 01:229, 01:299, 02:346, 02:427, 02:741, 02:952, 03:63, 03:88, 11:01:01:01-11:01:50, 11:01:52-11:01:72, 11:01:74-11:11, 11:13-11:16, 11:19-11:27, 11:29-11:39, 11:41-11:44, 11:46-11:52Q, 11:54:01-11:97, 11:99N-11:110, 11:112-11:158, 11:160-11:177, 11:179-11:189, 11:191-11:222, 11:224-11:249, 11:251N-11:252, 11:254-11:270, 11:272Q-11:286, 11:288-11:290, 11:292-11:304, 11:306-11:395, 11:397N-11:398, 11:400N-11:428, 24:19, 24:44, 26:03:01:01-26:03:01:02, 26:06, 26:21, 26:78, 26:92, 26:111, 26:177, 26:193, 30:125, 30:140, 33:184, 34:01:01:01-34:08, 34:10N-34:30N, 69:02, 74:30, 80:02
7	560 bp	1070 bp	*66:03:01:01-66:03:01:03, 66:28N, 66:39N *02:16, 02:131:01:01-02:131:03, 02:487, 02:560, 02:693, 24:315 ^w , 24:374 ^w
8⁴	95 bp	1070 bp	*66:05, 66:07, 66:15 *01:01:01:01-01:01:27, 01:01:29-01:01:56, 01:01:58-01:01:61, 01:01:63-01:01:106, 01:01:108-01:01:123, 01:01:125-01:04:01:02N, 01:06, 01:08-01:12, 01:14-01:16N, 01:18N-01:33, 01:35-01:70, 01:72-01:99, 01:101-01:104, 01:106-01:143, 01:145-01:175, 01:177-01:189, 01:191-01:193, 01:195-01:203, 01:205-01:249, 01:251-01:288, 01:290N-01:297, 01:299-01:301Q, 01:303:01-01:325, 01:327-01:333, 01:335-01:419, 02:346, 02:427, 02:644, 02:749, 02:952, 03:41, 11:17, 11:19, 11:40, 11:98, 11:121, 11:308, 11:312, 23:122 ^w , 24:44 ^w , 24:109 ^w , 24:260 ^w , 25:01:01:01-25:01:21, 25:03-25:12N, 25:14, 25:16, 25:18-25:63, 25:65-25:70, 25:72-25:74, 25:76-25:80, 26:01:01:01-26:01:21, 26:01:23-26:01:27, 26:01:29-26:12:01:02, 26:14-26:18, 26:20:01-26:29, 26:31-26:32, 26:34-26:43:02, 26:45-26:63, 26:66-26:82, 26:84-26:131, 26:133-26:147, 26:149-26:150, 26:152-26:193, 26:196-26:223, 31:03, 31:164, 32:62, 33:13,



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				33:184, 36:01:01:01-36:12, 43:01-43:03, 74:10, 74:30, 80:01:01:01-80:09N
9⁶	155 bp	800 bp	*66:06, 66:33, 66:43	*02:309, 02:454, 03:01:19, 03:103:02, 25:19:01-25:19:02, 25:30, 26:43:01-26:43:02, 26:112:01-26:112:02, 31:03-31:04:02, 31:123, 34:02:01:01-34:04, 34:06-34:09, 34:13, 34:15, 34:20-34:22, 34:24-34:26N, 34:28-34:30N, 74:01:03
	235 bp		*66:14	*25:27:01, 26:130
10	210 bp	1070 bp	*66:09, 66:28N	*02:03:01:01-02:03:11, 02:25, 02:38, 02:117, 02:148, 02:171:01-02:171:02, 02:230, 02:253, 02:258, 02:264:01:01-02:264:01:02, 02:267, 02:280-02:281, 02:315, 02:345, 02:355, 02:370, 02:412, 02:427, 02:431, 02:447, 02:463, 02:466, 02:480, 02:505, 02:529, 02:544, 02:557, 02:568, 02:595, 02:612, 02:633-02:634, 02:641, 02:666, 02:684, 02:711, 02:774-02:775N, 02:809, 02:833N, 02:849-02:850, 02:854, 02:860, 02:914, 02:949, 02:971, 02:976-02:977, 02:979, 02:988, 02:997Q, 02:1000, 02:1002, 26:22
11	190 bp	800 bp	*66:04, 66:07, 66:10	*01:01:56, 25:36, 25:65, 26:29, 26:49, 26:205
	235 bp		*66:14	*25:27:01, 26:130
12⁴	95 bp 220 bp	800 bp	*66:17 *66:08	*02:453, 02:557, 02:690, 33:151 *02:19, 02:294, 02:940, 32:54, 32:142, 33:204, 34:05 ² , 68:206
13	145 bp	1070 bp	*66:19, 66:22, 66:26Q, 66:43	*01:01:56, 03:01:19, 03:103:02, 25:09, 26:14, 26:18, 26:28, 26:73, 26:112:01-26:112:02, 26:146, 26:217, 31:03-31:04:02, 31:123, 34:03, 34:06, 34:17, 74:01:03
	305 bp 440 bp		*66:13 *66:11	*24:535
14⁷	360 bp	1070 bp	*66:02:01:01-66:03:01:03, 66:12, 66:16, 66:21, 66:25-66:26Q, 66:28N, 66:34, 66:39N, 66:43	*02:135, 02:309, 02:454, 03:01:19, 03:103:02, 25:13, 25:82, 26:30, 26:65, 31:04:01:01-31:04:02, 31:123, 34:09, 68:294, 74:01:03
15	135 bp	1070 bp	*66:16, 66:18, 66:22, 66:43	*03:01:19, 03:103:02, 25:08-25:09, 26:14, 26:18, 26:28, 26:47, 26:73, 26:112:01-26:112:02, 26:146, 31:03-31:04:02, 31:123, 34:03, 34:06, 34:17, 34:22, 74:01:03
	190 bp		*66:04, 66:07	
16⁸	-	-	-	Negative Control

¹Alleles 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*66 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.



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For *In Vitro* Diagnostic Use
MA123 v02 SSP PI Template
Date: October 2022, Rev. No: 00

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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 inherent 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.

²The 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.

³For 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.

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

⁵Primer mix 1 may give rise to a PCR fragment approx. 500 bp in size. This band should be disregarded in the interpretation of HLA-A*66 subtypings.

⁶In primer mix 9 the positive control band may be weaker than for other HLA-A*66 primer mixes.

⁷Primer mix 14 may give rise to a lower yield of HLA-specific PCR product than the other A*66 primer mixes.

⁸Primer mix 16 contains a negative control, which will amplify the majority 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 200 base pairs.

Abbreviations

?: nucleotide sequence of the primer matching sequence is not known.

w: might be weakly amplified.



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PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	180	100	430	175	190	80	560	95	155	210	190	95
PCR product					225				235		235	220
Length of int. pos. control ¹	800	1070	1070	1070	800	800	1070	1070	800	1070	800	800
5'-primer(s) ²	418	282	28	423	144	302	282	282	423	355	423	652
	5'-AgA 3'	5'-CAg 3'	5'-TCg 3'	5'-gCT 3'	5'-gCC 3'	5'-ggA 3'	5'-CAC 3'	5'-CAC 3'	5'-gCT 3'	5'-CCg 3'	5'-gCT 3'	5'-CTg 3'
	423							517		629		
	5'-gCT 3'							5'-AgA 3'		5'-AA 3'		
3'-primer(s) ³	559	341	282	559	292	341	559	341	539	517	566	704
	5'-CCT 3'	5'-CgT 3'	5'-gAC 3'	5'-CTC 3'	5'-gTg 3'	5'-CgT 3'	5'-CTC 3'	5'-CgT 3'	5'-TCA 3'	5'-CgT 3'	5'-CCg 3'	5'-CCA 3'
	559		290		327			566	616	808	570	829
	5'-CCg 3'		5'-CAA 3'		5'-TTT 3'			5'-CCg 3'	5'-CgC 3'	5'-AgA 3'	5'-CCg 3'	5'-CTC 3'
	560										583	
	5'-ACC 3'										5'-gTg 3'	
											616	
											5'-CgC 3'	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15
Length of spec.	145	360	135
PCR product	305		190
	440		
Length of int. pos. control ¹	1070	1070	1070
5'-primer(s) ²	28	341	423
	5'-TCg 3'	5'-ggC 3'	5'-gCT 3'
	423		
	5'-gCT 3'		
3'-primer(s) ³	164	418	517
	5'-gCA 3'	5'-gTC 3'	5'-CgC 3'
	299		518
	5'-CCg 3'		5'-CCA 3'
	517		521
	5'-CgC 3'		5'-ggA 3'
	538		566
	5'-CCg 3'		5'-CCg 3'
	538		583
	5'-CCg 3'		5'-gTg 3'
Well No.	13	14	15

¹The 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.

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

³The nucleotide position matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.



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CELL LINE VALIDATION SHEET																			
HLA-A*66 SSP subtyping kit ²																			
				Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
				Prod. No.:	202136301	202136302	202136303	202136304	202136305	202136306	202136307	202136308	202136309	202136310	202136311	202136312	202136313	202136314	202136315
	IHC cell line ¹	A*	A*																
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 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	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	-	+	+	-	-	+	-	-	-	-	-	+	-	-	-	-
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	-	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01		+	+	+	-	-	+	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	-	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-



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Lot No.: 6N3

Lot-specific information

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

²The 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 11, 13 and 15 were available. The specificities of the primers in primer solutions 11, 13 and 15 were tested by separately adding two or three additional 5'-primers, respectively one or two additional 3'-primers. In primer solution 10 one 5'-primer was not possible to test. In primer solutions 1, 5, 8, 9, 11 to 13 and 15, one, two or three of the 3'-primers were not possible to test. In addition, one or more 3'- and/or 5'-primers in primer solutions 8 and 10 were tested by separately adding one 5'-primer and/or one 3'-primer respectively.



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Lot No.: **6N3**

Lot-specific information

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For *In Vitro* Diagnostic Use

MA123 v02 SSP PI Template

Date: October 2022, Rev. No: 00