• LERUP SSP\*

HLA-A\*36 Product Insert Page 1 of 12

**101.419-06 – including** *Taq* **polymerase**, IFU-01 **101.419-06u – without** *Taq* **polymerase**, IFU-02

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Lot No.: 3K8 Lot-specific information

Olerup SSP® HLA-A\*36

Product number: 101.419-06 – including *Taq* polymerase

101.419-06u - without *Tag* polymerase

Lot number: 3K8

Expiry date: 2023-10-01

Number of tests: 6 Number of wells per test: 7+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. 3K8.

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\*36 Lot (8F7)

The HLA-A\*36 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 3.37.0.

The HLA-A\*36 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup* SSP® HLA-A\*36 lot was made (Lot No. 8F7).

The HLA-A\*36 primer set is unchanged compared to the previous *Olerup* SSP® HLA-A\*36 (Lot No. 8F7).

HLA-A\*36

**101.419-06 – including** *Taq* **polymerase**, IFU-01 **101.419-06u – without** *Taq* **polymerase**, IFU-02

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Well **8** contains <u>Negative Control primer pairs</u>, that will amplify a 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 products generated by the positive control primer pair are 200 and 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
<u>.</u>	<sup>5'</sup> -TgC <sup>3'</sup>	<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>	5'-ACA3'
							48
							<sup>5'</sup> -gCA <sup>3'</sup>
							48
							<sup>5</sup> '-gCC <sup>3</sup> '
							<b>52</b> ⁵'-TgT³'
<b>A</b> *	+	+	+				-igi
B*	+	+	+				
C*	+	+	+				
DRB1				+	+		
DRB3				+	+		
DRB5				+			
DQB1					+		
DPB1						+	
DQA1							+

<sup>&</sup>lt;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 <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.

<sup>&</sup>lt;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 specificity-determining 3'-end of the primer is given in the anti-sense direction. 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.

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HLA-A\*36 Product Insert Page 3 of 12

**101.419-06 – including** *Taq* **polymerase**, IFU-01 **101.419-06u – without** *Taq* **polymerase**, IFU-02

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Lot No.: 3K8

**Lot-specific information** 

# PRODUCT DESCRIPTION

# **HLA-A\*36 SSP subtyping**

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-A\*36:01 to HLA-A\*36:09 alleles.

## **PLATE LAYOUT**

Each test consists of 8 PCR reactions in an 8 well cut PCR plate.

1 2 3 4 5 6 7 NC

The 8 well cut PCR plate is marked with 'A36' in silver/gray ink.

Well No. 1 is marked with '3K8'.

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 8 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\*36 alleles will be amplified by some primer mixes. For further details see Specificity Table.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-A\*36 alleles, i.e. **A\*36:01 to A\*36:09**, recognized by the HLA Nomenclature Committee in July 2019<sup>1,2,3</sup> will be amplified by the primers in the HLA-A\*36 subtyping kit.

The HLA-A\*36 kit enables separation of the confirmed HLA-A\*36 alleles as listed in the IMGT/HLA database 3.29.0. 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\*36 alleles is listed below.

The HLA-A\*36 kit also enables identification of null and alternatively expressed alleles.

<sup>1</sup>HLA-A alleles listed on the IMGT/HLA web page 2019-July-10, release 3.37.0, www.ebi.ac.uk/imgt/hla.

<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 <a href="http://hla.alleles.org/alleles/deleted.html">http://hla.alleles.org/alleles/deleted.html</a>.

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**101.419-06 – including** *Taq* **polymerase**, IFU-01 **101.419-06u – without** *Taq* **polymerase**, IFU-02

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Lot No.: 3K8 Lot-specific information

<sup>3</sup>The A\*36:01, 36:06-36:09 and the A\*03:187 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-A low resolution kit and/or HLA-A\*03 high resolution kit.

The A\*36:04, A\*01:72 and the A\*11:226 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-A low resolution kit and/or the HLA-A\*01 and HLA-A\*11 high resolution kits.

#### **ALLELE CONFIRMATION STATUS**

Allele	Status <sup>1</sup>
A*36:01	Confirmed
A*36:02	Unconfirmed
A*36:03	Confirmed
A*36:04	Unconfirmed
A*36:05	Unconfirmed

<sup>&</sup>lt;sup>1</sup>Allele status "confirmed" or "unconfirmed" as listed on the IMGT/HLA web page 2017-August-10, release 3.29.0, <u>www.ebi.ac.uk/imgt/hla</u>.

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

Results file with resolution in HLA-A\*36 homo- and heterozygotes is available upon request.

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**101.419-06 – including** *Taq* **polymerase**, IFU-01 **101.419-06u – without** *Taq* **polymerase**, IFU-02

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Lot No.: 3K8

Lot-specific information

# **SPECIFICITY TABLE**

# **HLA-A\*36 SSP subtyping**

Specificities and sizes of the PCR products of the 7+1 primer mixes used for HLA-A\*36 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA- A*36 alleles <sup>3</sup>	Other amplified HLA-A alleles
14	75 bp	800 bp	*36:01-36:03, 36:05-36:09	*01:14 <sup>w</sup> , 02:682, 03:187, 31:62
2	225 bp	1070 bp	*36:01, 36:04-36:09	*01:01:01:01-01:02, 01:04:01:01N-01:04:01:02N, 01:07-01:11N, 01:13-01:14, 01:16N-01:18N, 01:21-01:33, 01:35-01:52:02N, 01:54-01:62, 01:64, 01:67:01-01:72, 01:74-01:97, 01:99-01:126, 01:128-01:129, 01:131-01:135, 01:137-01:191, 01:193-01:199, 01:201-01:221, 01:223-01:243, 01:245-01:254, 01:256-01:286, 01:288-01:300, 01:302-01:306, 01:308N-01:314, 01:316-01:319, 03:18, 03:135, 03:187, 11:94, 11:112, 11:211, 11:226, 11:271, 11:290, 11:326, 25:59
3	235 bp	800 bp	*36:02	*03:01:01:01-03:01:29, 03:01:31-03:01:34, 03:01:36-03:01:48, 03:01:51-03:04:03, 03:07:01-03:09, 03:11N-03:17:02, 03:19-03:39, 03:41, 03:43-03:74, 03:76-03:94, 03:96-03:97, 03:99-03:104, 03:106-03:121, 03:123:01-03:134, 03:136-03:166, 03:168N-03:176, 03:178N-03:186, 03:188-03:193, 03:195-03:207, 03:201-03:203, 03:205-03:207, 03:209-03:214, 03:216-03:224, 03:226-03:259, 03:261-03:325, 03:347-03:346, 03:348-03:369, 11:130, 30:89, 32:04
<b>4</b> <sup>5</sup>	230 bp	1070 bp	*36:03	*01:73, 01:89, 01:301, 24:22, 24:160, 24:299, <b>B*15:90, B*38:45, C*04:282, C*12:153, C*16:103</b>
5	235 bp	1070 bp	*36:04	*01:72, 11:01:01:01-11:01:20, 11:01:22-11:01:43, 11:01:45- 11:01:61, 11:01:63-11:03, 11:05- 11:14, 11:16-11:25:02, 11:29- 11:33:02, 11:36-11:37, 11:40- 11:49, 11:51-11:52Q, 11:54:01- 11:89, 11:91:01-11:93, 11:95- 11:100, 11:102-11:117, 11:119:01- 11:129, 11:131-11:138, 11:140- 11:142, 11:144-11:156,

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64	90 bp	1070 bp	*36:01-36:09	11:158-11:169, 11:171-11:181, 11:183-11:208N, 11:210N-11:241, 11:243-11:263, 11:265-11:270, 11:272Q-11:287N, 11:289-11:298, 11:300-11:325, 11:327-11:329, 11:331-11:334, 11:336-11:344, 11:346-11:349, 25:43, 30:117 *01:72, 02:576, 02:682, 03:187, 11:155, 11:226, 31:62, 34:22, 68:41, B*40:359, B*55:96, B*57:65, C*04:31, C*06:137, C*07:569
74	110 bp	1070 bp	*36:05	*03:227, 11:323
86	-	-	<b>Negative Control</b>	

<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\*36 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 1<sup>st</sup> and/or 4<sup>th</sup> 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 4 has a tendency to giving rise to primer oligomer formation, and may also have tendencies of unspecific amplifications.

<sup>6</sup>Primer mix 8 contains a negative control, which will amplify a 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 products generated by the HGH positive control primer pair are 200 and 430 base pairs.

#### **Abbreviations**

'w', might be weakly amplified.



HLA-A\*36

Product Insert

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Lot No.: 3K8

**Lot-specific information** 

# PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7
Length of spec.	75	225	235	230	235	90	110
PCR product							
Length of int.	800	1070	800	1070	1070	1070	1070
pos. control <sup>1</sup>							
5'-primer(s) <sup>2</sup>	527	363	363	355	363	521	363
	<sup>5'</sup> -TgC <sup>3'</sup>	<sup>5'</sup> -ATA <sup>3'</sup>	<sup>5'</sup> -ATA <sup>3'</sup>	5' -CCC 3'	<sup>5'</sup> -ATA <sup>3'</sup>	<sup>5'</sup> -ggT <sup>3'</sup>	<sup>5'</sup> -ATA <sup>3'</sup>
3'-primer(s) <sup>3</sup>	559	545	555	545	559	571	430
	<sup>5'</sup> -CgT <sup>3'</sup>	<sup>5'</sup> -AgA <sup>3'</sup>	5' -CCA 3'	<sup>5'</sup> -AgA <sup>3'</sup>	<sup>5'</sup> -CCg <sup>3'</sup>	5' -CCA 3'	<sup>5'</sup> -gCA <sup>3'</sup>
		545		545			
		<sup>5'</sup> -AgA <sup>3'</sup>		<sup>5'</sup> -AgA <sup>3'</sup>			
Well No.	1	2	3	4	5	6	7

<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="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.

<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 <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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CELL LINE VALIDATION SHEET											
HLA-A*36 SSP subtyping kit <sup>2</sup>											
	Well										
			+		1	2	3	4	5	6	7
H			1			Ε-	<u> </u>	Ė	<u> </u>		
				Prod. No.:	201550501	201550502	201550503	201550504	201550505	201550506	201550507
					50	20	20	20	20	20	20
				8	15	15	15	15	15	15	15
				<u> </u>	20	20	20	20	20	20	20
	IHV	/C cell line <sup>1</sup>		Α*							
1			*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			<u>-</u>	<u>-</u>	-	<u>-</u>	<u>-</u>	-
12	9052	DBB	*02:01		<u> </u>	_	_		_	[-	-
13	9004	JESTHOM	*02:01		•	•	•	•	•	ŀ	-
14	9071	OLGA	*31:01		•	•	•	•	•	•	-
15	9075	DKB	*24:02		-	-	-	•	-	•	-
16	9037	SWEIG007	*29:02		-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*80:01	•	•	+	•	-	ŀ	-
18	9257	32367	*33:03	*74:01	•	•	•	•	•	•	-
19	9038	BM16	*02:01		-	-	-	-	-	Ŀ	-
20	9059	SLE005	*02:01		-	-	-	-	-	•	-
21		AMALA	*02:17		-	-	-	-	-	•	-
22		KOSE	*02:01		<u> </u>	<u>-</u>	<u>-</u>	-	<u>-</u>	Ŀ	-
23	9124		*02:01	*34:01	-	-	-	-	-	Ŀ	_
24		JBUSH	*32:01		-	-	-	-	-	•	-
25		IBW9	*33:01		-	-	-	-	-	•	-
26		WT49	*02:05		-	-	-	-	-	Ŀ	
27		CH1007	*24:10	*29:01	-	-	-	-	-	•	-
28		BEL5GB	*02:01	*29:02	-	-	-	-	-	•	-
29		MOU	*29:02	105 -	-	<u>-</u>	<u>-</u>	-	-	-	-
30	9021		*30:01	*68:02	-	<u> </u>	-	-	-	<u> </u>	ᆸ
31		DUCAF	*30:02		-	-	-	-	-	-	-
32	9297		*02:01		-	-	-	-	-	<u> </u>	-
33		MT14B	*31:01		-	<u> </u>	<u> </u>	-	-	<u> </u>	-
34		DHIF	*31:01		<u> </u>	<u>-</u>	_	<u> </u>	_	<u> </u>	-
35		SSTO	*32:01	*44.01	-	<u> </u>	-	-	<u>-</u>	<u> </u>	-
36		KT17	*02:06	*11:01	-	-	-	-	+	W	-
37		HHKB	*03:01	1	-	-	+	-	-	<u> </u>	-
38	9099		*02:17	*02.04	-	<u>-</u>	<u>-</u>	<u> </u>	-	Ŀ	ᆜ
39	9315	-	*01:01	*03:01	-	+	+	Ŀ	<u> </u>	Ŀ	
40		WHONP199	*02:07	*30:01	-	-	-	-	-	-	-
41 42		H0301	*03:01	-	-	<del>-</del>	+	-	<u> </u>	Ė	-
42		TAB089	*02:07	*00:07	Ŀ	<del>-</del>	<del>-</del>	Ι <u>-</u>	<del>-</del>	Ė	-
-		T7526	*02:06	*02:07	Ŀ	<u> </u>	<u> </u>	Ŀ	<u> </u>	Ŀ	
44 45		TEM	*66:01	*04.00	-	-	-	-	-	-	-
45		SHJO	*23:01	*24:02	-	-	-	-	<u> </u>	Ŀ	-
46		SCHU TUBO	*03:01	*03:01	H	Ė	+	Ė	<u>-</u>	Ė	H
48			*02:16	*11:01	Ε.	<u>-</u>	<del>  </del>	<del>-</del>	+	w	-
40	9303	TER-ND	*02:01	11:01	<u> </u>				<u> </u>	_ VV	

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**101.419-06 – including** *Taq* **polymerase**, IFU-01 **101.419-06u – without** *Taq* **polymerase**, IFU-02

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### Lot No.: 3K8 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 solution 7 were available.

In primer solution 7 it was only possible to test the 5'-primer, the 3'-primer was not possible to test.

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**101.419-06 – including** *Taq* **polymerase**, IFU-01 **101.419-06u – without** *Taq* **polymerase**, IFU-02

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**101.419-06 – including** *Taq* **polymerase**, IFU-01 **101.419-06u – without** *Taq* **polymerase**, IFU-02

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Lot No.: 3K8 Lot-specific information



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**101.419-06 – including** *Taq* **polymerase**, IFU-01 **101.419-06u – without** *Taq* **polymerase**, IFU-02

Visit <a href="https://labproducts.caredx.com">https://labproducts.caredx.com</a> for "Instructions for Use" (IFU)

Lot No.: 3K8 Lot-specific information

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