

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

Visit www.olerup-ssp.com for
“Instructions for Use” (IFU)

Lot No.: **15V**

Lot-specific information

Olerup SSP® HLA-A*02

Product number:	101.412-24/04 – including <i>Taq</i> pol. 101.412-24u/04u – without <i>Taq</i> pol.
Lot number:	15V
Expiry date:	2016-July-01
Number of tests:	24 tests – Product No. 101.412-24/24u 4 tests – Product No. 101.412-04/04u
Number of wells per test:	95+1
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 15V.

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*02 LOT (29S)

The HLA-A*02 kit is updated for new alleles to enable separation of:

- Confirmed¹ 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

A well containing Negative Control primer pairs has been added.

The format of the Product Insert and Worksheet have been changed.

¹As described in section Uniquely Identified Alleles.

The specificity and interpretation tables have been revised since the previous *Olerup SSP®* HLA-A*02 lot (**29S**).

As of lot series V, the Specificity Table is included in the lot-specific Product Insert, and the Interpretation Table is included in the Worksheet.

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

Well	5'-primer	3'-primer	rationale
5	-	Added	3'-primer added for the A*02:01:96 allele.
20	-	Added	3'-primer added for improved allelic resolution of the A*02:33 and 02:198 alleles.
24	-	Added	3'-primer added for the A*02:393 allele.
25	-	Added	3'-primer added for the A*02:384 allele.
27	Added	-	5'-primer added for the A*02:407 allele.
39	-	Added	3'-primer added from well 96, 3'-primer added for the A*02:439N allele.
40	-	Added	3'-primer added from well 96.
44	Added	-	5'-primer added for the A*02:342 allele.
65	Added	-	5'-primer added for the A*02:342 and A*02:440Q alleles.
66	Added	-	5'-primer added for improved allelic resolution of the A*02:30 and A*02:01:83 alleles.
67	Added	-	5'-primer added for improved allelic resolution of the A*02:07 and A*02:322 alleles, 5'-primer added for the A*02:407 allele.
68	-	Added	3'-primer added for improved allelic resolution of the A*02:119 and A*02:158 alleles.
70	-	Added	3'-primer added for improved allelic resolution of the A*02:133 and A*02:250 alleles.
71	-	Added	3'-primer added from well 96.
75	-	Added	3'-primer added for the A*02:384 allele.
76	Added	-	5'-primer added for the A*02:342 allele.
79	-	Added	3'-primer added for the A*02:419 allele.
83	-	Added	3'-primer added for the A*02:440Q allele.
88	-	Added	3'-primer added from well 96.
89	-	Added	3'-primer added for the A*02:426 allele.
90	Added	-	5'-primer added for the A*02:377 allele.
92	-	Added	3'-primer added from well 96.
94	Added	-	5'-primer added for the A*02:377 allele.
96	-	Moved	Negative Control, 3'-primers moved to wells 39, 40, 71, 88 and 92.

Change in revision R01 compared to R00:

1. Primer mix 1 does amplify the A*02:158 allele. This has been corrected in the Specificity and Interpretation tables.

Change in revision R02 compared to R01:

1. Primer mixes 25 and 75 do not amplify the A*02:384 allele. This has been corrected in the Specificity and Interpretation tables. Thus, this lot of the HLA-A*02 subtyping kit cannot distinguish the A*02:01:01:01, 02:01:01:03-02:01:02, 02:01:04-02:01:15, 02:01:18-02:01:19, 02:01:21-02:01:51, 02:01:53-02:01:62, 02:01:64-02:01:73, 02:01:75-02:01:81, 02:01:84-02:01:86 and 02:01:89-02:01:90 and 02:01:92-02:01:99 alleles and the A*02:384 allele.

Change in revision R01 compared to R00:

1. Primer mix 26 may have tendencies of unspecific amplifications. A foot note has been added in the Specificity Table.

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Lot-specific information

Well **96** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup SSP*® HLA Class I, DRB, DQB1 and DPB1 amplicons as well as amplicons generated by a control primer pair.

PCR product sizes range from 75 to 430 base pairs.

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

The PCR product

generated by the control primer pair is 430 base pairs.

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*02 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the A*02:01 to A*02:456 alleles.

PLATE LAYOUT

Each test consists of 96 PCR reactions in a 96 well cut PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	NC

The 96 well cut PCR plate is marked with 'HLA-A*02' in silver/gray ink.

Well No. 1 is marked with the Lot No. '15V'.

Wells 1 to 95 – HLA-A*02 high resolution primers.

Well 96 – 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.

INTERPRETATION

Due to the sharing of sequence motifs between HLA-A alleles non-HLA-A*02 alleles will be amplified by primer mixes 1 to 6, 9 to 12, 16, 17, 19, 22 to 25, 27, 31, 34 to 37, 40 to 43, 45, 49, 51 to 53, 55, 60 to 64, 75, 83 to 85, 89, 91, 93 and 95. In addition, a few HLA-B and HLA-C alleles will be amplified by primer mixes 5, 10, 16, 24, 34, 41, 49, 88, 91, 93 and 95.

For further details see Specificity Table.

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UNIQUELY IDENTIFIED ALLELES

All HLA-A*02 alleles recognized by the HLA Nomenclature Committee in October 2013, i.e. **A*02:01 to A*02:456**, will be amplified by the primers in the HLA-A*02 subtyping kit^{1,2,3}.

The HLA-A*02 kit enables separation of the confirmed HLA-A*02 alleles as listed in the IMGT/HLA database. 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*02 alleles is listed below.

The HLA-A*02 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles

The following HLA-A*02 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
A*02:28, 02:409	27	A*02:134, 02:314N	85
A*02:97:01-02:97:02, 02:305N	59	A*02:138, 02:284N	87
A*02:107, 02:202, 02:251	65	A*02:139, 02:235	88
A*02:111, 02:350N	67	A*02:141, 02:275	90
A*02:116, 02:196	71	A*02:150, 02:197, 02:325	94
A*02:119, 02:263	73	A*02:180, 02:358	29
A*02:120, 02:223N	74	A*02:193, 02:213	78
A*02:132, 02:215, 02:237	83	A*02:269, 02:367	70

The HLA-A*02 subtyping kit cannot distinguish the silent mutations in the A*02:01:01:01, 02:01:01:03-02:01:02, 02:01:04-02:01:15, 02:01:18-02:01:19, 02:01:21-02:01:51, 02:01:53-02:01:62, 02:01:64-02:01:73, 02:01:75-02:01:81, 02:01:84-02:01:86 and 02:01:89-02:01:90 and 02:01:92-02:01:99 alleles, the 02:243:01-02:243:02 alleles, the A*02:01:17, 02:01:52, 02:01:63 and 02:01:74 alleles, the A*02:01:87 and 02:01:91 alleles, the A*02:03:01 and 02:03:03-02:03:06 alleles, the A*02:05:01-02:05:06 alleles, the A*02:06:01-02:06:11 and 02:06:13-02:06:15 alleles, the A*02:07:01-02:07:03 alleles, the A*02:11:01, 02:11:03-02:11:05 alleles, the A*02:17:01-02:17:03 alleles, the 02:20:01-02:20:02 alleles, the A*02:22:01-02:22:02 alleles, the A*02:24:01-02:24:02 alleles, the A*02:40:01-02:40:02 alleles, the A*02:60:01-02:60:02 alleles, the A*02:74:01-02:74:02 alleles, the A*02:76:01-02:76:02 alleles, the A*02:79:01-02:79:02 alleles, the A*02:97:01-02:97:02 alleles, the A*02:101:01-02:101:02 alleles and the A*02:171:01-02:171:02 alleles.

¹HLA-A alleles listed on the IMGT/HLA web page 2013-October-11, release 3.14.0, 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>.

³This lot of the HLA-A*02 subtyping kit cannot distinguish the A*02:01:01:01, 02:01:01:03-02:01:02, 02:01:04-02:01:15, 02:01:18-02:01:19, 02:01:21-02:01:51, 02:01:53-02:01:62, 02:01:64-02:01:73, 02:01:75-02:01:81, 02:01:84-02:01:86 and 02:01:89-02:01:90 and 02:01:92-02:01:99 alleles and the A*02:384 allele.

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ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*02:01:01:01	Confirmed	A*02:01:51	Confirmed	A*02:03:02	Unconfirmed	A*02:21	Unconfirmed
A*02:01:01:02L	Confirmed	A*02:01:52	Confirmed	A*02:03:03	Confirmed	A*02:22:01	Confirmed
A*02:01:01:03	Unconfirmed	A*02:01:53	Unconfirmed	A*02:03:04	Unconfirmed	A*02:22:02	Unconfirmed
A*02:01:02	Confirmed	A*02:01:54	Unconfirmed	A*02:03:05	Unconfirmed	A*02:24:01	Confirmed
A*02:01:03	Confirmed	A*02:01:55	Unconfirmed	A*02:03:06	Unconfirmed	A*02:24:02	Unconfirmed
A*02:01:04	Confirmed	A*02:01:56	Unconfirmed	A*02:04	Confirmed	A*02:25	Confirmed
A*02:01:05	Unconfirmed	A*02:01:57	Unconfirmed	A*02:05:01	Confirmed	A*02:26	Unconfirmed
A*02:01:06	Unconfirmed	A*02:01:58	Unconfirmed	A*02:05:02	Confirmed	A*02:27	Confirmed
A*02:01:07	Unconfirmed	A*02:01:59	Unconfirmed	A*02:05:03	Unconfirmed	A*02:28	Confirmed
A*02:01:08	Unconfirmed	A*02:01:60	Unconfirmed	A*02:05:04	Confirmed	A*02:29	Confirmed
A*02:01:09	Confirmed	A*02:01:61	Confirmed	A*02:05:05	Unconfirmed	A*02:30	Confirmed
A*02:01:10	Unconfirmed	A*02:01:62	Unconfirmed	A*02:05:06	Unconfirmed	A*02:31	Unconfirmed
A*02:01:11	Unconfirmed	A*02:01:63	Unconfirmed	A*02:06:01	Confirmed	A*02:32N	Unconfirmed
A*02:01:12	Unconfirmed	A*02:01:64	Unconfirmed	A*02:06:02	Unconfirmed	A*02:33	Confirmed
A*02:01:13	Unconfirmed	A*02:01:65	Unconfirmed	A*02:06:03	Unconfirmed	A*02:34	Unconfirmed
A*02:01:14Q	Confirmed	A*02:01:66	Unconfirmed	A*02:06:04	Unconfirmed	A*02:35:01	Confirmed
A*02:01:15	Unconfirmed	A*02:01:67	Unconfirmed	A*02:06:05	Confirmed	A*02:35:02	Unconfirmed
A*02:01:17	Unconfirmed	A*02:01:68	Unconfirmed	A*02:06:06	Unconfirmed	A*02:35:03	Unconfirmed
A*02:01:18	Confirmed	A*02:01:69	Unconfirmed	A*02:06:07	Unconfirmed	A*02:36	Confirmed
A*02:01:19	Unconfirmed	A*02:01:70	Confirmed	A*02:06:08	Confirmed	A*02:37	Unconfirmed
A*02:01:21	Unconfirmed	A*02:01:71	Unconfirmed	A*02:06:09	Unconfirmed	A*02:38	Confirmed
A*02:01:22	Confirmed	A*02:01:72	Unconfirmed	A*02:06:10	Unconfirmed	A*02:39	Confirmed
A*02:01:23	Confirmed	A*02:01:73	Unconfirmed	A*02:06:11	Confirmed	A*02:40:01	Confirmed
A*02:01:24	Confirmed	A*02:01:74	Unconfirmed	A*02:06:12	Unconfirmed	A*02:40:02	Confirmed
A*02:01:25	Confirmed	A*02:01:75	Unconfirmed	A*02:06:13	Unconfirmed	A*02:41	Confirmed
A*02:01:26	Confirmed	A*02:01:76	Unconfirmed	A*02:06:14	Unconfirmed	A*02:42	Confirmed
A*02:01:27	Confirmed	A*02:01:77	Unconfirmed	A*02:06:15	Unconfirmed	A*02:43N	Unconfirmed
A*02:01:28	Unconfirmed	A*02:01:78	Unconfirmed	A*02:07:01	Confirmed	A*02:44	Confirmed
A*02:01:29	Confirmed	A*02:01:79	Unconfirmed	A*02:07:02	Unconfirmed	A*02:45	Unconfirmed
A*02:01:30	Confirmed	A*02:01:80	Unconfirmed	A*02:07:03	Unconfirmed	A*02:46	Unconfirmed
A*02:01:31	Confirmed	A*02:01:81	Unconfirmed	A*02:08	Confirmed	A*02:47	Unconfirmed
A*02:01:32	Confirmed	A*02:01:83	Unconfirmed	A*02:09	Confirmed	A*02:48	Confirmed
A*02:01:33	Unconfirmed	A*02:01:84	Confirmed	A*02:10	Confirmed	A*02:49	Confirmed
A*02:01:34	Confirmed	A*02:01:85	Unconfirmed	A*02:11:01	Confirmed	A*02:50	Unconfirmed
A*02:01:35	Confirmed	A*02:01:86	Unconfirmed	A*02:11:02	Confirmed	A*02:51	Confirmed
A*02:01:36	Confirmed	A*02:01:87	Unconfirmed	A*02:11:03	Unconfirmed	A*02:52	Unconfirmed
A*02:01:37	Confirmed	A*02:01:88	Unconfirmed	A*02:11:04	Unconfirmed	A*02:53N	Confirmed
A*02:01:38	Confirmed	A*02:01:89	Unconfirmed	A*02:11:05	Unconfirmed	A*02:54	Confirmed
A*02:01:39	Confirmed	A*02:01:90	Unconfirmed	A*02:12	Confirmed	A*02:55	Confirmed
A*02:01:40	Confirmed	A*02:01:91	Unconfirmed	A*02:13	Confirmed	A*02:56:01	Unconfirmed
A*02:01:41	Unconfirmed	A*02:01:92	Unconfirmed	A*02:14	Confirmed	A*02:56:02	Unconfirmed
A*02:01:42	Confirmed	A*02:01:93	Unconfirmed	A*02:15N	Unconfirmed	A*02:57	Unconfirmed
A*02:01:43	Confirmed	A*02:01:94	Unconfirmed	A*02:16	Unconfirmed	A*02:58	Confirmed
A*02:01:44	Unconfirmed	A*02:01:95	Unconfirmed	A*02:17:01	Confirmed	A*02:59	Unconfirmed
A*02:01:45	Confirmed	A*02:01:96	Unconfirmed	A*02:17:02	Unconfirmed	A*02:60:01	Confirmed
A*02:01:46	Confirmed	A*02:01:97	Unconfirmed	A*02:17:03	Unconfirmed	A*02:60:02	Unconfirmed
A*02:01:47	Confirmed	A*02:01:98	Unconfirmed	A*02:18	Unconfirmed	A*02:61	Confirmed
A*02:01:48	Unconfirmed	A*02:01:99	Unconfirmed	A*02:19	Unconfirmed	A*02:62	Unconfirmed
A*02:01:49	Confirmed	A*02:02	Confirmed	A*02:20:01	Confirmed	A*02:63	Unconfirmed
A*02:01:50	Confirmed	A*02:03:01	Confirmed	A*02:20:02	Unconfirmed	A*02:64	Confirmed

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Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*02:65	Unconfirmed	A*02:112	Unconfirmed	A*02:162	Unconfirmed	A*02:211:01	Confirmed
A*02:66	Confirmed	A*02:113N	Confirmed	A*02:163	Confirmed	A*02:211:02	Unconfirmed
A*02:67	Unconfirmed	A*02:114	Confirmed	A*02:164	Confirmed	A*02:212	Unconfirmed
A*02:68	Unconfirmed	A*02:115	Unconfirmed	A*02:165	Confirmed	A*02:213	Confirmed
A*02:69	Unconfirmed	A*02:116	Unconfirmed	A*02:166	Confirmed	A*02:214	Confirmed
A*02:70	Unconfirmed	A*02:117	Unconfirmed	A*02:167	Unconfirmed	A*02:215	Confirmed
A*02:71	Unconfirmed	A*02:118	Confirmed	A*02:168	Unconfirmed	A*02:216	Unconfirmed
A*02:72	Unconfirmed	A*02:119	Confirmed	A*02:169	Confirmed	A*02:217:01	Unconfirmed
A*02:73	Unconfirmed	A*02:120	Unconfirmed	A*02:170	Unconfirmed	A*02:217:02	Unconfirmed
A*02:74:01	Unconfirmed	A*02:121	Confirmed	A*02:171:01	Unconfirmed	A*02:218	Unconfirmed
A*02:74:02	Unconfirmed	A*02:122	Confirmed	A*02:171:02	Unconfirmed	A*02:219	Unconfirmed
A*02:75	Unconfirmed	A*02:123	Confirmed	A*02:172	Confirmed	A*02:220	Unconfirmed
A*02:76:01	Confirmed	A*02:124	Unconfirmed	A*02:173	Confirmed	A*02:221	Confirmed
A*02:76:02	Unconfirmed	A*02:125N	Confirmed	A*02:174	Unconfirmed	A*02:222N	Unconfirmed
A*02:77	Confirmed	A*02:126	Unconfirmed	A*02:175	Unconfirmed	A*02:223N	Unconfirmed
A*02:78	Unconfirmed	A*02:127	Unconfirmed	A*02:176	Unconfirmed	A*02:224	Unconfirmed
A*02:79:01	Unconfirmed	A*02:128	Confirmed	A*02:177	Confirmed	A*02:225N	Unconfirmed
A*02:79:02	Unconfirmed	A*02:129	Confirmed	A*02:178	Unconfirmed	A*02:226N	Unconfirmed
A*02:80	Confirmed	A*02:130	Unconfirmed	A*02:179	Unconfirmed	A*02:227N	Confirmed
A*02:81	Unconfirmed	A*02:131	Confirmed	A*02:180	Confirmed	A*02:228	Confirmed
A*02:82N	Confirmed	A*02:132	Unconfirmed	A*02:181	Unconfirmed	A*02:229	Unconfirmed
A*02:83N	Confirmed	A*02:133	Confirmed	A*02:182	Confirmed	A*02:230	Confirmed
A*02:84	Confirmed	A*02:134	Unconfirmed	A*02:183	Confirmed	A*02:231	Unconfirmed
A*02:85	Confirmed	A*02:135	Unconfirmed	A*02:184	Unconfirmed	A*02:232	Unconfirmed
A*02:86	Confirmed	A*02:136	Confirmed	A*02:185	Unconfirmed	A*02:233	Confirmed
A*02:87	Confirmed	A*02:137	Unconfirmed	A*02:186	Confirmed	A*02:234	Unconfirmed
A*02:88N	Unconfirmed	A*02:138	Unconfirmed	A*02:187	Unconfirmed	A*02:235	Confirmed
A*02:89	Unconfirmed	A*02:139	Confirmed	A*02:188	Confirmed	A*02:236	Unconfirmed
A*02:90	Confirmed	A*02:140	Unconfirmed	A*02:189	Confirmed	A*02:237	Confirmed
A*02:91	Unconfirmed	A*02:141	Confirmed	A*02:190	Confirmed	A*02:238	Unconfirmed
A*02:92	Unconfirmed	A*02:142	Unconfirmed	A*02:191	Unconfirmed	A*02:239	Unconfirmed
A*02:93	Confirmed	A*02:143	Unconfirmed	A*02:192	Unconfirmed	A*02:240	Unconfirmed
A*02:94N	Unconfirmed	A*02:144	Unconfirmed	A*02:193	Unconfirmed	A*02:241	Unconfirmed
A*02:95	Unconfirmed	A*02:145	Unconfirmed	A*02:194	Confirmed	A*02:242	Confirmed
A*02:96	Confirmed	A*02:146	Confirmed	A*02:195	Unconfirmed	A*02:243:01	Unconfirmed
A*02:97:01	Confirmed	A*02:147	Confirmed	A*02:196	Unconfirmed	A*02:243:02	Unconfirmed
A*02:97:02	Unconfirmed	A*02:148	Unconfirmed	A*02:197	Confirmed	A*02:244	Unconfirmed
A*02:99	Unconfirmed	A*02:149	Confirmed	A*02:198	Confirmed	A*02:245	Confirmed
A*02:101:01	Unconfirmed	A*02:150	Unconfirmed	A*02:199	Confirmed	A*02:246	Unconfirmed
A*02:101:02	Confirmed	A*02:151	Confirmed	A*02:200	Confirmed	A*02:247	Unconfirmed
A*02:102	Confirmed	A*02:152	Unconfirmed	A*02:201	Unconfirmed	A*02:248	Unconfirmed
A*02:103	Unconfirmed	A*02:153	Confirmed	A*02:202	Confirmed	A*02:249	Unconfirmed
A*02:104	Unconfirmed	A*02:154	Confirmed	A*02:203	Confirmed	A*02:250N	Unconfirmed
A*02:105	Confirmed	A*02:155	Unconfirmed	A*02:204	Unconfirmed	A*02:251	Confirmed
A*02:106	Unconfirmed	A*02:156	Unconfirmed	A*02:205	Confirmed	A*02:252	Unconfirmed
A*02:107	Unconfirmed	A*02:157	Unconfirmed	A*02:206	Confirmed	A*02:253	Unconfirmed
A*02:108	Unconfirmed	A*02:158	Confirmed	A*02:207	Confirmed	A*02:254	Unconfirmed
A*02:109	Unconfirmed	A*02:159	Unconfirmed	A*02:208	Unconfirmed	A*02:255	Unconfirmed
A*02:110	Confirmed	A*02:160	Confirmed	A*02:209	Unconfirmed	A*02:256	Unconfirmed
A*02:111	Unconfirmed	A*02:161	Confirmed	A*02:210	Unconfirmed	A*02:257	Unconfirmed

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*02:258	Unconfirmed	A*02:308	Unconfirmed	A*02:358	Unconfirmed	A*02:408	Unconfirmed
A*02:259	Confirmed	A*02:309	Unconfirmed	A*02:359	Unconfirmed	A*02:409	Unconfirmed
A*02:260	Confirmed	A*02:310	Unconfirmed	A*02:360	Unconfirmed	A*02:410	Unconfirmed
A*02:261	Unconfirmed	A*02:311	Unconfirmed	A*02:361	Unconfirmed	A*02:411	Unconfirmed
A*02:262	Unconfirmed	A*02:312	Unconfirmed	A*02:362	Unconfirmed	A*02:412	Unconfirmed
A*02:263	Confirmed	A*02:313	Unconfirmed	A*02:363	Unconfirmed	A*02:413	Unconfirmed
A*02:264	Unconfirmed	A*02:314N	Unconfirmed	A*02:364	Unconfirmed	A*02:414	Unconfirmed
A*02:265	Unconfirmed	A*02:315	Confirmed	A*02:365	Unconfirmed	A*02:415	Unconfirmed
A*02:266	Unconfirmed	A*02:316	Unconfirmed	A*02:366N	Unconfirmed	A*02:416	Unconfirmed
A*02:267	Confirmed	A*02:317	Unconfirmed	A*02:367	Confirmed	A*02:417	Unconfirmed
A*02:268	Unconfirmed	A*02:318	Unconfirmed	A*02:368	Unconfirmed	A*02:418	Unconfirmed
A*02:269	Confirmed	A*02:319	Unconfirmed	A*02:369	Unconfirmed	A*02:419	Confirmed
A*02:270	Unconfirmed	A*02:320	Unconfirmed	A*02:370	Unconfirmed	A*02:420	Unconfirmed
A*02:271	Unconfirmed	A*02:321N	Unconfirmed	A*02:371	Unconfirmed	A*02:421	Unconfirmed
A*02:272	Unconfirmed	A*02:322	Unconfirmed	A*02:372	Unconfirmed	A*02:422	Unconfirmed
A*02:273	Unconfirmed	A*02:323	Confirmed	A*02:373N	Unconfirmed	A*02:423	Unconfirmed
A*02:274	Unconfirmed	A*02:324	Unconfirmed	A*02:374	Unconfirmed	A*02:424	Unconfirmed
A*02:275	Confirmed	A*02:325	Confirmed	A*02:375	Unconfirmed	A*02:425	Unconfirmed
A*02:276	Unconfirmed	A*02:326	Unconfirmed	A*02:376	Unconfirmed	A*02:426	Confirmed
A*02:277	Unconfirmed	A*02:327	Unconfirmed	A*02:377	Confirmed	A*02:427	Unconfirmed
A*02:278	Unconfirmed	A*02:328	Unconfirmed	A*02:378	Unconfirmed	A*02:428	Unconfirmed
A*02:279	Unconfirmed	A*02:329	Unconfirmed	A*02:379	Unconfirmed	A*02:429	Unconfirmed
A*02:280	Unconfirmed	A*02:330	Confirmed	A*02:380	Unconfirmed	A*02:430	Unconfirmed
A*02:281	Unconfirmed	A*02:331	Unconfirmed	A*02:381	Unconfirmed	A*02:431	Unconfirmed
A*02:282	Unconfirmed	A*02:332	Unconfirmed	A*02:382	Unconfirmed	A*02:432	Unconfirmed
A*02:283	Confirmed	A*02:333	Unconfirmed	A*02:383	Unconfirmed	A*02:433	Unconfirmed
A*02:284N	Unconfirmed	A*02:334	Unconfirmed	A*02:384	Confirmed	A*02:434	Unconfirmed
A*02:285	Unconfirmed	A*02:335	Unconfirmed	A*02:385	Unconfirmed	A*02:435	Unconfirmed
A*02:286	Unconfirmed	A*02:336	Unconfirmed	A*02:386	Unconfirmed	A*02:436	Unconfirmed
A*02:287	Unconfirmed	A*02:337	Unconfirmed	A*02:387	Unconfirmed	A*02:437	Confirmed
A*02:288	Unconfirmed	A*02:338	Confirmed	A*02:388	Unconfirmed	A*02:438	Unconfirmed
A*02:289	Confirmed	A*02:339	Unconfirmed	A*02:389	Unconfirmed	A*02:439N	Unconfirmed
A*02:290	Unconfirmed	A*02:340	Unconfirmed	A*02:390	Unconfirmed	A*02:440Q	Unconfirmed
A*02:291	Confirmed	A*02:341	Unconfirmed	A*02:391	Unconfirmed	A*02:441	Unconfirmed
A*02:292	Unconfirmed	A*02:342	Confirmed	A*02:392	Unconfirmed	A*02:442	Unconfirmed
A*02:293Q	Unconfirmed	A*02:343	Unconfirmed	A*02:393	Confirmed	A*02:443	Unconfirmed
A*02:294	Unconfirmed	A*02:344	Confirmed	A*02:394	Unconfirmed	A*02:444	Unconfirmed
A*02:295	Unconfirmed	A*02:345	Unconfirmed	A*02:395N	Unconfirmed	A*02:445	Unconfirmed
A*02:296	Unconfirmed	A*02:346	Unconfirmed	A*02:396	Unconfirmed	A*02:446	Unconfirmed
A*02:297	Unconfirmed	A*02:347	Unconfirmed	A*02:397	Unconfirmed	A*02:447	Unconfirmed
A*02:298	Unconfirmed	A*02:348	Unconfirmed	A*02:398	Unconfirmed	A*02:448	Unconfirmed
A*02:299	Confirmed	A*02:349	Unconfirmed	A*02:399	Unconfirmed	A*02:449	Unconfirmed
A*02:300	Unconfirmed	A*02:350N	Unconfirmed	A*02:400	Unconfirmed	A*02:450	Unconfirmed
A*02:301N	Unconfirmed	A*02:351	Confirmed	A*02:401	Unconfirmed	A*02:451	Unconfirmed
A*02:302	Unconfirmed	A*02:352	Unconfirmed	A*02:402	Unconfirmed	A*02:452	Unconfirmed
A*02:303	Unconfirmed	A*02:353	Unconfirmed	A*02:403	Unconfirmed	A*02:453	Unconfirmed
A*02:304	Unconfirmed	A*02:354	Unconfirmed	A*02:404	Unconfirmed	A*02:454	Unconfirmed
A*02:305N	Unconfirmed	A*02:355	Unconfirmed	A*02:405	Unconfirmed	A*02:456	Unconfirmed
A*02:306	Unconfirmed	A*02:356N	Unconfirmed	A*02:406	Unconfirmed		
A*02:307	Unconfirmed	A*02:357	Unconfirmed	A*02:407	Confirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2013-October-11, release 3.14.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-A*02 homo- and heterozygotes is available upon request.

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information
SPECIFICITY TABLE

HLA-A*02 SSP subtyping

Specificities and sizes of the PCR products of the 95+1 primer mixes used for HLA-A*02 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-A*02 alleles ³	Other amplified HLA-A alleles ⁴
1¹¹	360 bp	800 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:01:86, 02:01:88 ^w , 02:01:89-02:01:90, 02:01:92-02:06:15, 02:08-02:09, 02:12-02:14, 02:16, 02:19-02:22:02, 02:24:01-02:32N, 02:34, 02:36-02:38, 02:40:01-02:46, 02:49-02:68, 02:70-02:77, 02:79:01-02:80, 02:82N-02:86, 02:88N-02:89, 02:91-02:97:02, 02:99, 02:101:01-02:102, 02:104-02:107, 02:109, 02:111, 02:113N-02:123, 02:125N-02:127, 02:131-02:135, 02:137-02:145, 02:147, 02:149-02:190, 02:192-02:211:01, 02:212-02:218, 02:220-02:241, 02:243:01-02:243:02, 02:245-02:246, 02:248-02:249, 02:251-02:254, 02:256-02:260, 02:262-02:264, 02:266-02:267, 02:269-02:281, 02:283-02:296, 02:299, 02:301N-02:302, 02:304-02:307, 02:309-02:316, 02:318, 02:320-02:330, 02:332-02:334, 02:336-02:346, 02:348-02:350N, 02:352-02:360, 02:362-02:368, 02:370-02:397, 02:399-02:402, 02:404-02:407, 02:409-02:417, 02:418 ^w , 02:419-02:421, 02:423-02:425, 02:427-02:428, 02:430-02:431, 02:433-02:436, 02:438-02:448, 02:454, 02:456	*01:104, 01:134, 03:09, 03:89, 03:108, 03:172, 11:06, 11:18, 25:11, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:36, 26:78, 26:92, 29:19, 30:13, 30:16, 30:44, 30:46, 32:08, 33:24, 68:05, 68:15, 68:20, 74:06, 80:01:01:01 ^w
2	240 bp	1070 bp	*02:01:01:01-02:01:02, 02:01:04-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:04, 02:07:01-02:07:03, 02:09, 02:12-02:13, 02:15N-02:20:02, 02:22:01-02:22:02, 02:24:01-02:27, 02:29-02:34, 02:36-02:40:02, 02:42-02:43N, 02:45-02:47, 02:49-02:50, 02:52-02:53N, 02:55-02:56:02, 02:58-02:60:02, 02:62-02:68, 02:70-02:71, 02:73-02:75, 02:77, 02:80, 02:82N-02:83N, 02:85-02:86, 02:88N-02:89, 02:92-02:97:02, 02:101:01-02:105, 02:107, 02:109-02:111, 02:113N-02:121, 02:123, 02:125N, 02:130-02:135, 02:138-02:141, 02:145, 02:147-02:153, 02:155-02:168, 02:171:01-02:171:02, 02:173-02:177, 02:181-02:228, 02:230-02:231, 02:233-02:242, 02:245-02:246, 02:249-02:258, 02:260-02:270, 02:272-02:277, 02:279-02:285, 02:287-02:289, 02:291-02:294, 02:296, 02:299, 02:301N-02:307, 02:309, 02:311-02:318, 02:320-02:323, 02:325-02:327, 02:329, 02:332, 02:334-02:336, 02:338-	*01:134, 03:09, 03:89, 03:108, 03:172, 74:06

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

			02:343, 02:345-02:354, 02:356N-02:357, 02:360-02:365, 02:367-02:372, 02:374-02:375, 02:377-02:381, 02:383-02:386, 02:388-02:393, 02:395N-02:397, 02:399-02:403, 02:406- 02:408, 02:410-02:412, 02:414, 02:416- 02:418, 02:422-02:427, 02:429-02:432, 02:434-02:437, 02:439N-02:452, 02:456	
3⁶	175 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:03:06, 02:05:01-02:16, 02:18, 02:20:01-02:22:02, 02:24:01-02:38, 02:40:01-02:43N, 02:45- 02:56:02, 02:58-02:64, 02:66-02:78, 02:80- 02:85, 02:87-02:97:02, 02:99, 02:101:01- 02:107, 02:109, 02:111-02:134, 02:136- 02:148, 02:150-02:151, 02:153-02:155, 02:157-02:189, 02:191-02:193, 02:195- 02:223N, 02:225N-02:267, 02:269-02:299, 02:301N-02:302, 02:304-02:308, 02:310- 02:333, 02:335-02:337, 02:339-02:370, 02:372-02:399, 02:401-02:407, 02:409-02:435, 02:437, 02:439N-02:454, 02:456	*68:02:01:01-68:02:05, 68:15, 68:18N, 68:23, 68:27:01-68:28, 68:31, 68:34, 68:40, 68:48, 68:51, 68:53-68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:77- 68:78, 68:80-68:82, 68:86, 68:92, 68:97, 68:105, 69:01- 69:02
4⁵	80 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:18-02:01:19, 02:01:21-02:01:51, 02:01:53-02:01:62, 02:01:64-02:01:73, 02:01:75-02:01:81, 02:01:83-02:01:99, 02:03:01-02:04, 02:06:01- 02:06:11, 02:06:13-02:07:03, 02:09-02:13, 02:15N-02:22:02, 02:24:01-02:35:01, 02:35:03- 02:44, 02:45 ^w , 02:46, 02:49, 02:51-02:54, 02:56:01 ^w , 02:57-02:62, 02:64-02:77, 02:78 ^w , 02:79:01-02:97:02, 02:99, 02:101:01-02:102, 02:104-02:114, 02:116-02:121, 02:123-02:128, 02:130-02:143, 02:145-02:153, 02:156-02:168, 02:170-02:171:02, 02:173-02:175, 02:177- 02:178, 02:180-02:184, 02:187-02:194, 02:196-02:204, 02:207-02:208, 02:210-02:228, 02:230-02:231, 02:233-02:270, 02:272-02:285, 02:287-02:314N, 02:316-02:319, 02:322- 02:323, 02:325-02:336, 02:338-02:343, 02:345-02:358, 02:360-02:371, 02:374-02:375, 02:377, 02:379-02:381, 02:383-02:412, 02:415-02:420, 02:422-02:432, 02:434-02:454, 02:456	*01:69:02 ^w , 01:83:02, 03:01:03 ^w , 03:23:01, 03:89, 11:121, 26:07:02, 29:48, 33:01:02, 33:08-33:09, 68:30, 74:04
5^{5,8}	125 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:01:99, 02:04, 02:06:01-02:07:03, 02:09-02:11:05, 02:14- 02:18, 02:20:01-02:21, 02:25-02:26, 02:28- 02:36, 02:39-02:43N, 02:45-02:46, 02:48, 02:51-02:53N, 02:55-02:62, 02:64, 02:66-02:67, 02:68 ^w , 02:69-02:97:02, 02:99, 02:101:01- 02:101:02, 02:103, 02:105-02:114, 02:116, 02:118-02:121, 02:123-02:134, 02:138-02:141, 02:143-02:147, 02:149-02:151, 02:153, 02:156- 02:171:02, 02:173-02:178, 02:180-02:181, 02:183-02:185, 02:187-02:190, 02:192-02:208, 02:210-02:221, 02:223N-02:225N, 02:227N-02:228, 02:231, 02:233-02:252,	*03:17:01, 03:171, 23:01:01-23:01:11, 23:04- 23:60, 24:02:16, 24:13:01- 24:13:02, 24:18, 24:24, 24:94, 24:188, 24:207, 24:228, 30:61, 30:74, 31:67- 31:68, 32:28, 33:32:01, 68:08:01-68:08:02, 68:63, 69:01-69:02, B*51:136, C*07:204

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Lot-specific information

			02:254-02:257, 02:259-02:263, 02:265-02:266, 02:268-02:270, 02:272-02:273, 02:275-02:279, 02:282-02:285, 02:287-02:308, 02:310- 02:314N, 02:316-02:319, 02:321N-02:322, 02:325-02:336, 02:338-02:343, 02:346-02:354, 02:356N-02:358, 02:360-02:369, 02:371- 02:372, 02:374-02:375, 02:377-02:381, 02:383- 02:401, 02:404-02:411, 02:414-02:416, 02:418- 02:420, 02:422-02:426, 02:428-02:430, 02:432, 02:434-02:438, 02:440Q-02:446, 02:448- 02:454, 02:456	
6^{5,6}	75 bp	800 bp	*02:02-02:03:06, 02:05:01-02:05:06, 02:08, 02:22:01-02:22:02, 02:47, 02:49-02:50, 02:63, 02:102, 02:104, 02:115, 02:117, 02:122, 02:136, 02:148, 02:154-02:155, 02:172, 02:179, 02:186, 02:191, 02:209, 02:229-02:230, 02:232, 02:253, 02:258, 02:264, 02:267, 02:281, 02:286, 02:315, 02:320, 02:323-02:324, 02:337, 02:344-02:345, 02:355, 02:359, 02:370, 02:373N, 02:376, 02:382, 02:412, 02:421, 02:427, 02:431, 02:433, 02:447	*24:138, 68:01:01:01- 68:01:13, 68:01:15-68:07, 68:10-68:25, 68:27:01- 68:47, 68:49N, 68:51-68:62, 68:64-68:106
7⁷	175 bp	1070 bp	*02:02, 02:05:01-02:05:06, 02:08, 02:14, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:286, 02:320, 02:324, 02:337, 02:344, 02:359, 02:373N, 02:376, 02:413, 02:421, 02:433	
8	415 bp	1070 bp	*02:02, 02:05:01-02:05:06, 02:14, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:271, 02:286, 02:320, 02:324, 02:337, 02:344, 02:359, 02:373N, 02:376, 02:413, 02:421, 02:433	
	505 bp		*02:32N	
9⁵	105 bp	1070 bp	*02:03:01, 02:03:02 ^w , 02:03:03-02:03:06, 02:25, 02:38, 02:117, 02:148, 02:171:01- 02:171:02, 02:230, 02:253, 02:258, 02:264, 02:267, 02:280-02:281, 02:315, 02:345, 02:355, 02:370, 02:412, 02:427, 02:431, 02:447	*24:99, 26:10
10⁵	115 bp	800 bp	*02:03:01, 02:03:02 ^w , 02:03:03-02:03:06, 02:13, 02:26, 02:38, 02:99, 02:117, 02:148, 02:171:01-02:171:02, 02:230, 02:253, 02:258, 02:264, 02:280-02:281, 02:315, 02:323, 02:345, 02:355, 02:370, 02:393, 02:402, 02:412, 02:427, 02:431, 02:447	*03:17:01, 24:18, 24:56, 24:177, 26:10, 68:42, 68:54, 68:61, 68:63, B*51:136 , C*12:37
11^{8,9}	225 bp 350 bp	1070 bp	*02:89 *02:04, 02:17:01-02:17:03, 02:57, 02:65, , 02:108, 02:110, 02:152, 02:268, 02:300, 02:303, 02:334	*23:12, 24:28, 24:30, 24:42, 24:89, 29:19, 29:48, 32:08, 33:24, 68:05, 68:20, 74:06
12	195 bp 235 bp	1070 bp	*02:85 *02:05:01-02:06:15, 02:08, 02:10, 02:14, 02:21, 02:28, 02:41, 02:44, 02:51, 02:54,	*11:06, 11:18, 26:03:01-26:03:02, 26:06,

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101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

			02:57, 02:61, 02:72, 02:79:01-02:79:02, 02:84, 02:91, 02:99, 02:106, 02:108, 02:122, 02:126-02:127, 02:137, 02:142-02:144, 02:154, 02:169-02:170, 02:172, 02:178-02:180, 02:229, 02:232, 02:244, 02:248, 02:259, 02:271, 02:278, 02:286, 02:290, 02:295, 02:300, 02:310, 02:324, 02:328, 02:330, 02:333, 02:337, 02:344, 02:355, 02:358-02:359, 02:373N, 02:376, 02:382, 02:387, 02:398, 02:404-02:405, 02:409, 02:413, 02:415, 02:419-02:421, 02:428, 02:433, 02:438, 02:453-02:454	26:21, 26:30, 26:78, 26:92, 68:05, 68:15, 68:20
13⁸	145 bp	800 bp	*02:05:01-02:05:06, 02:08, 02:14, 02:84, 02:154, 02:172, 02:179, 02:229, 02:232, 02:271, 02:286, 02:324, 02:337, 02:344, 02:359, 02:373N, 02:376, 02:382, 02:413, 02:421, 02:433	
14^{5,8}	95 bp 170 bp	800 bp	*02:91, 02:322 *02:07:01-02:07:03, 02:15N, 02:18, 02:103, 02:112, 02:130, 02:191, 02:219, 02:255, 02:261, 02:265, 02:282, 02:319, 02:335, 02:369, 02:403, 02:426, 02:429, 02:432, 02:437, 02:449-02:452	
15^{5,8}	125 bp 265 bp 305 bp	800 bp	*02:21, 02:186 *02:87, 02:112, 02:129, 02:136 *02:96	
16⁵	110 bp	800 bp	*02:50, 02:73, 02:93, 02:122, 02:156, 02:172, 02:279	*11:119:01-11:119:02, 23:31, 23:45, 23:55, 24:15, 24:41, 24:51, 24:92, 24:235, 26:10, 32:28, 68:02:01:01-68:02:05, 68:15, 68:18N, 68:25, 68:27:01-68:28, 68:31, 68:34, 68:40, 68:44, 68:48-68:49N, 68:51, 68:53-68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:77-68:78, 68:80-68:82, 68:86, 68:92, 68:97, B*44:59:02, B*44:136, B*51:136, C*07:204, C*12:37
	155 bp		*02:09, 02:49	
17⁸	205 bp 360 bp	1070 bp	*02:83N *02:10, 02:17:01-02:17:03, 02:39, 02:108, 02:110, 02:148, 02:242, 02:244, 02:268, 02:300, 02:303, 02:398, 02:453	*23:12, 24:28, 24:30, 24:42, 24:89
18¹⁰	175 bp	1070 bp	*02:11:01, 02:11:03-02:11:05, 02:29, 02:69, 02:128, 02:297-02:298, 02:308, 02:395N	
19⁵	125 bp	1070 bp	*02:12-02:13, 02:19, 02:27, 02:37-02:38, 02:44, 02:54, 02:142, 02:271, 02:280, 02:417	*11:119:01-11:119:02, 24:02:01:01-24:02:15, 24:02:17-24:02:41, 24:02:43-24:05, 24:07-24:11N, 24:14-24:15, 24:17, 24:19-24:20, 24:23, 24:25-

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				24:53, 24:55-24:64, 24:66-24:86N, 24:88-24:90N, 24:92-24:93, 24:95-24:106, 24:108-24:109, 24:111-24:124, 24:126-24:132N, 24:134-24:137, 24:139-24:157, 24:159, 24:161-24:166, 24:168-24:187, 24:189-24:203, 24:205-24:206, 24:209-24:210, 24:212, 24:214-24:226, 24:229-24:252N, 33:19, 68:09, 68:26
	165 bp		*02:283	
20	135 bp 260bp 295 bp	1070 bp	*02:200 *02:198 *02:49	
21	220 bp 255 bp	1070 bp	*02:15N, 02:356N *02:291	
22	160 bp	1070 bp	*02:19, 02:36-02:37, 02:54, 02:255, 02:417	*23:01:01-23:02, 23:05-23:42, 23:44-23:60, 24:02:01:01-24:02:41, 24:02:43-24:02:69, 24:02:71, 24:04-24:09N, 24:11N, 24:13:01-24:15, 24:17, 24:19-24:20, 24:23 ^w , 24:24-24:32, 24:34-24:64, 24:66-24:74:02, 24:76-24:93, 24:95-24:109, 24:111-24:124, 24:126-24:137, 24:139-24:157, 24:159-24:166, 24:168-24:203, 24:205-24:206, 24:209, 24:212-24:218, 24:220-24:252N, 33:19, 68:26, 68:65
23	135 bp 180 bp	800 bp	*02:31, 02:161, 02:387 *02:17:01-02:17:03, 02:108, 02:110, 02:268, 02:300, 02:303	*24:94, 24:138, 24:188, 24:228
24⁵	75 bp 115 bp	1070 bp	*02:230 *02:27, 02:393	*11:119:01-11:119:02, 24:59, 24:190, 24:210, 24:229, C*07:204
	160 bp		*02:233, 24:219	
25	135 bp 165 bp	1070 bp	*02:16, 02:131, 02:226N *02:283	*24:55
26^{5,8}	125 bp 165 bp 260 bp	800 bp	*02:33 *02:52 *02:198	
27⁵	95 bp 145 bp	1070 bp	*02:28, 02:155, 02:185 *02:10, 02:50, 02:52, 02:73, 02:93, 02:95, 02:110, 02:114, 02:117, 02:122, 02:156, 02:242, 02:244, 02:279, 02:282, 02:300,	*30:13, 30:16, 30:44, 30:46 *03:123:01-03:123:02, 03:171, 11:16, 11:35, 11:57,

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			02:304, 02:339, 02:407, 02:409, 02:449, 02:453	11:73, 11:158, 24:131, 24:138, 24:188, 24:218, 29:51, 68:01:01:01-68:11N, 68:13:01-68:48, 68:51-68:106
	540 bp		*02:28, 02:155, 02:185	
28	235 bp	800 bp	*02:08, 02:20:01-02:20:02, 02:55-02:56:02, 02:62, 02:78, 02:103, 02:128, 02:169, 02:195, 02:415	
29	220 bp	1070 bp	*02:45-02:46, 02:48, 02:56:01 ^w -02:56:02 ^w , 02:78 ^w , 02:92, 02:103 ^w , 02:129, 02:169 ^w , 02:195 ^w , 02:358, 02:369	
	300 bp		*02:180	
30	130 bp	800 bp	*02:163	
	160 bp		*02:43N, 02:104	
31^{5,6}	95 bp	800 bp	*02:82N	*23:08N
	220 bp		*02:45, 02:56:01-02:56:02, 02:78, 02:103, 02:169, 02:195	
32	205 bp	1070 bp	*02:176	
	230 bp		*02:46, 02:48, 02:70, 02:129	
	255 bp		*02:47	
33^{7,8}	230 bp	1070 bp	*02:165, 02:168, 02:400, 02:420-02:421	
	325 bp		*02:19, 02:36-02:37, 02:54, 02:255, 02:417	
34^{5,6,9}	120 bp	800 bp	*02:88N,	
	170 bp		*02:34-02:35:02, 02:56:01-02:56:02, 02:62, 02:78, 02:103, 02:395N	*30:01:01-30:01:07, 30:08, 30:11:01-30:11:02, 30:14L-30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35-30:43, 30:48-30:49, 30:52-30:56, 30:58-30:60, 30:62-30:63, 30:65, 30:72-30:75, 30:78N, 68:01:11, C*03:82
35⁵	110 bp	1070 bp	*02:40:01-02:40:02, 02:51, 02:130	*23:01:01-23:01:11, 23:02 ^w , 23:04-23:23, 23:25-23:33, 23:35-23:56, 23:58-23:60, 24:24, 24:71, 31:67-31:68, 32:28, 33:32:01, 68:51 ^w
	155 bp		*02:77	
36⁵	85 bp	1070 bp	*02:94N,	
	445 bp		*02:24:01-02:24:02, 02:65, 02:135, 02:137, 02:152, 02:309	*01:104, 01:134, 03:09, 03:89, 03:108, 03:172, 11:06, 11:18, 25:11, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:36, 26:78, 26:92, 29:19, 29:48, 30:13, 30:16, 30:44, 30:46, 32:08, 33:24, 74:06, 80:01:01:01 ^w
37	140 bp	1070 bp	*02:38, 02:68, 02:101:01-02:101:02, 02:154, 02:447	*11:119:01-11:119:02, 23:10 ^w , 24:10:01-24:10:02, 24:46 ^w , 24:91, 24:210, 26:10, 68:61
38⁵	125 bp	800 bp	*02:41, 02:80, 02:117, 02:289, 02:304, 02:454	
	225 bp		*02:351	

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Lot-specific information

39⁶	170 bp 240 bp 265 bp 300 bp	1070 bp	*02:18 *02:153, 02:293Q, 02:439N *02:159 *02:170, 02:364	
40^{5,8}	90 bp 210 bp 250 bp	1070 bp	*02:67 *02:40:01-02:40:02, 02:51, 02:130 *02:153	*29:22, 33:22
41⁸	185 bp	1070 bp	*02:02, 02:05:01-02:05:06, 02:08, 02:14, 02:17:01-02:17:03, 02:47, 02:57-02:58, 02:63, 02:75, 02:102, 02:108, 02:110, 02:115, 02:154- 02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:271, 02:286, 02:300, 02:303, 02:320, 02:324, 02:337, 02:344, 02:359, 02:373N, 02:376, 02:413, 02:421, 02:433	*24:94, 24:138, 24:188, 24:228, C*12:94, C*14:48
42^{7,8}	225 bp	800 bp	*02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:103	*01:13, 01:17, 03:01:01:01- 03:07, 03:09-03:11N, 03:13- 03:31, 03:33-03:35, 03:37- 03:40, 03:42-03:58, 03:60- 03:71, 03:73-03:87, 03:90- 03:106, 03:109-03:141, 03:143-03:151, 03:153- 03:171, 03:174-03:175, 30:55, 34:08, 68:71, 74:13
43	180 bp 225 bp	800 bp	*02:71 *02:03:01-02:03:06, 02:22:01-02:22:02, 02:49, 02:104, 02:117, 02:136, 02:148, 02:191, 02:230, 02:253, 02:258, 02:264, 02:267, 02:281, 02:315, 02:323, 02:345, 02:355, 02:370, 02:382, 02:402, 02:412, 02:427, 02:431, 02:447	*26:22, 66:09, 68:83, 68:105
44⁵	125 bp 155 bp 200 bp	800 bp	*02:203 *02:59 *02:222N, 02:342	
45⁵	105 bp 185 bp	1070 bp	*02:60:01-02:60:02, 02:254 *02:19, 02:39, 02:44, 02:79:01-02:79:02, 02:86, 02:400, 02:408, 02:436	*01:20, 01:66, 01:130, 03:95, 24:14, 24:93
46^{5,7}	70 bp 205 bp	1070 bp	*02:66 *02:61	
47	165 bp 205 bp 255 bp 305 bp	800 bp	*02:63 *02:144, 02:205 *02:35:01-02:35:02, 02:48, 02:78, 02:90, 02:331 *02.207	
48⁵	115 bp	1070 bp	*02:64, 02:177-02:178, 02:412	
49⁵	115 bp 145 bp	1070 bp	*02:27, 02:267, 02:408 *02:38, 02:101:01-02:101:02, 02:154, 02:447	*11:119:01-11:119:02, 24:59, 24:190, 24:210, 24:229, C*07:204 *11:119:01-11:119:02, 23:10 ^w , 24:10:01-24:10:02, 24:46 ^w , 24:210, 26:10, 68:61

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50	145 bp	800 bp	*02:01:01:02L	
51	410 bp	1070 bp	*02:65, 02:80, 02:114, 02:117, 02:152, 02:246, 02:279, 02:304, 02:406	*01:104, 01:134, 03:09, 03:89, 03:108, 03:172, 11:06, 11:18, 29:19, 29:48, 32:08, 33:24, 68:05, 68:20, 74:06, 80:01:01:01 ^w
52	185 bp	800 bp	*02:76:01-02:76:02, 02:319	*30:22
53	225 bp	1070 bp	*02:14, 02:17:01-02:17:03, 02:57-02:58, 02:108, 02:110, 02:300, 02:303	*03:75, 23:01:01-23:01:11, 23:03:01-23:13, 23:14:02-23:33, 23:35-23:60, 24:13:01, 24:18, 24:24, 24:94, 24:188, 24:207, 24:228, 29:07, 30:52, 31:29
54 ^{7,8}	240 bp 350 bp	800 bp	*02:189, 02:190, 02:438 *02:74:01-02:74:02	
55 ⁶	200 bp	1070 bp	*02:01:83, 02:13, 02:26, 02:30, 02:40:01-02:40:02, 02:51, 02:99, 02:130, 02:226N, 02:323, 02:393, 02:399, 02:402	*03:95, 29:22, 33:22
56	150 bp 275 bp	1070 bp	*02:175, 02:181 *02:53, 02:81, 02:124	
57 ^{5,7}	105 bp 150 bp	1070 bp	*02:42, 02:310 *02:160, 02:175	
58	255 bp	800 bp	*02:11:01-02:11:05, 02:35:01-02:35:03, 02:48, 02:69, 02:78, 02:90, 02:128, 02:297-02:298, 02:308, 02:331	
59 ⁸	145 bp 190 bp	800 bp	*02:97:01-02:97:02 *02:305N	
60 ⁸	345 bp	1070 bp	*02:50, 02:65, 02:73, 02:122, 02:135, 02:152, 02:245, 02:334	*25:11, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:36, 26:78, 26:92, 29:19, 29:48, 32:08, 33:24, 68:05, 68:15, 68:20, 74:06
61 ^{7,8}	185 bp	1070 bp	*02:50, 02:73, 02:122, 02:156, 02:245, 02:334, 02:338	*03:123:01-03:123:02, 03:171, 11:16, 11:35, 11:57, 11:73, 11:158, 29:51, 68:01:01:01-68:11N, 68:13:01-68:43, 68:45-68:48, 68:51-68:82, 68:84-68:104, 68:106
62	180 bp	800 bp	*02:69, 02:179	*68:01:01:01-68:32, 68:34-68:95, 68:97-68:106
63 ⁵	95 bp 155 bp	800 bp	*02:259, *02:105, 02:301N	*03:51, 30:37, 32:46
64 ⁵	125 bp 175 bp 260 bp	1070 bp	*02:106, 02:145 *02:164, 02:221 *02:187	*24:72 *01:44, 01:129, 03:44, 23:41, 29:15, 31:78
65	145 bp 185 bp	1070 bp	*02:160, 02:251 *02:107	

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Lot-specific information

	250 bp		*02:202, 02:440Q, 02:437	
66	170 bp 200 bp	800 bp	*02:109 *02:30	
67⁵	105 bp 135 bp 180 bp 300 bp	800 bp	*02:91, 02:177, 02:322 *02:111, 02:407, 02:449 *02:330 *02:350N	
68	210 bp 260 bp	1070 bp	*02:113N, 02:321N *02:158, 02:184	
69	170 bp 225 bp 335 bp	1070 bp	*02:114, 02:246, 02:279 *02:260 *02:166	
70⁵	125 bp 180 bp 285 bp	800 bp	*02:115 *02:133, 02:367 *02:53N, 02:269, 02:192, 02:433	
71⁸	135 bp 260 bp	800 bp	*02:196 *02:116	
72⁵	110 bp 230 bp 260 bp	1070 bp	*02:183 *02:189 *02:19, 02:44, 02:118, 02:135, 02:149, 02:152, 02:190, 02:309, 02:402, 02:408, 02:417, 02:436, 02:438	
73⁵	80 bp 200 bp 250 bp	800 bp	*02:263 *02:119 *02:158	
74	175 bp 250 bp	800 bp	*02:120 *02:187, 02:223N	
75^{5,8}	100 bp 165 bp 205 bp	1070 bp	*02:373N *02:166 *02:121, 02:425	*68:49N *23:47, 24:234, 68:14, 68:81
76	205 bp 230 bp	800 bp	*02:225N, 02:342 *02:50, 02:122, 02:143	
77⁵	80 bp 110 bp	800 bp	*02:123, 02:295, 02:344 *02:162	
78⁵	75 bp 130 bp 240 bp	1070 bp	*02:193 *02:213 *02:124	
79⁸	200 bp 225 bp 270 bp	1070 bp	*02:227N *02:125N, 02:217:02, 02:419 *02:53N, 02:184, 02:192, 02:433	
80⁵	90 bp 135 bp 230 bp	1070 bp	*02:214 *02:194 *02:126	
81^{5,7}	110 bp 235 bp 315 bp	800 bp	*02:183 *02:165, 02:400, 02:420-02:421 *02:127, 02:167, 02:299	
82	130 bp 255 bp 295 bp	1070 bp	*02:131 *02:291 *02:199	

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Lot-specific information

83⁵	100 bp 130 bp 245 bp	800 bp	*02:132 *02:215 *02:237, 02:440Q	*03:95
84⁷	180 bp 205 bp 245 bp	800 bp	*02:133, 02:164, *02:315 *02:250N	*01:44, 03:44
85	170 bp 260 bp	800 bp	*02:314N, 02:376 *02:134	*32:48N
86	180 bp 255 bp 310 bp	800 bp	*02:135, 02:309, 02:454 *02:174 *02:228	
87	155 bp 210 bp	800 bp	*02:138, 02:181 *02:284N	
88	135 bp 250 bp	800 bp	*02:188, 02:235 *02:139, 02:366N	*B*15:67, B*35:110, *C*12:94, C*14:48
89^{5,7}	120 bp 150 bp 200 bp	800 bp	*02:182, 02:140 *02:324, 02:426 *02:227N	*24:133, 31:48, 33:15
90⁵	100 bp 130 bp 190 bp	800 bp	*02:72, 02:206, 02:275, 02:377 *02:161 *02:141	
91⁵	110 bp	800 bp	*02:50, 02:73, 02:93, 02:122, 02:156, 02:162, 02:172, 02:211:01-02:211:02, 02:279	*11:119:01-11:119:02, 23:31, 23:45, 23:55, 24:15, 24:41, 24:51, 24:92, 24:235, 26:10, 32:28, 68:02:01:01- 68:02:05, 68:15, 68:18N, 68:25, 68:27:01-68:28, 68:31, 68:34, 68:40, 68:44, 68:48-68:49N, 68:51, 68:53- 68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:76-68:78, 68:80-68:82, 68:86, 68:92, 68:97, B*44:59:02, B*44:136, B*51:136, C*07:204, C*12:37
92	180 bp 260 bp	1070 bp	*02:173 *02:146, 02:366N	
93	130 bp 250 bp 295 bp	800 bp	*02:163 *02:147, 02:339 *02:157	*03:170, 23:52, 24:73, 24:157, B*15:173, B*18:63
94^{5,7}	110 bp 210 bp 360 bp	800 bp	*02:325, 02:377 *02:150 *02:197	
95	135 bp	800 bp	*02:52, 02:105, 02:147, 02:151, 02:188, 02:339	*68:06, C*12:94, C*14:48

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Lot-specific information

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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*02 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 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.

⁴Due to the sharing of sequence motifs between HLA-A alleles non-HLA-A*02 alleles will be amplified by primer mixes 1 to 6, 9 to 12, 16, 17, 19, 22 to 25, 27, 31, 34 to 37, 40 to 43, 45, 49, 51 to 53, 55, 60 to 64, 75, 83 to 85, 89, 91, 93 and 95. In addition, a few HLA-B and HLA-C alleles will be amplified by primer mixes 5, 10, 16, 24, 34, 41, 49, 88, 91, 93 and 95.

⁵HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

⁶The specific primers in primer mixes 3, 6, 31, 34, 39 and 55 may give rise to a lower yield of HLA-specific PCR product than the other A*02 primer mixes.

⁷Primer mixes 7, 33, 42, 46, 54, 57, 61, 81, 84, 89 and 94 have a tendency to giving rise to primer oligomer formation.

⁸Primer mixes 5, 11, 13, 14, 15, 17, 26, 33, 40, 41, 42, 54, 59, 60, 61, 71, 75 and 79 may have tendencies of unspecific amplifications.

⁹Primer mixes 11 and 34 may give rise to a long fragment of approx. 600 bp in some HLA-A alleles. This band should not be considered in the interpretation of HLA-A*02 typings.

¹⁰Primer mix 18 may faintly amplify the C*04:01:01:01-04:01:41 alleles.

¹¹For some samples primer mix 1 may amplify the A*02:07:01-02:07:03 alleles.

¹²Primer mix 96 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.

'w', might be weakly amplified.

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Lot-specific information

PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	360	240	175	80	125	75	175	415	105	115	225	195
								505			350	235
Length of int. pos. control ¹	800	1070	1070	1070	1070	800	1070	1070	1070	800	1070	1070
5'-primer(s) ²	292 5'-CTC 3'	81 5'-CAg 3'	362 5'-gAg 3'	200 5'-CCA 3'	453 5'-AAA 3'	506 5'-gCA 3'	402 5'-CTg 3'	270 5'-AAA 3'	453 5'-AAA 3'	453 5'-AAA 3'	292 5'-CTC 3'	98 5'-CTA 3'
	292 5'-CCC 3'	102 5'-ACA 3'	362 5'-gAg 3'								648 5'-CAA 3'	362 5'-gAg 3'
3'-primer(s) ³	368 5'-CAT 3'	292 5'-gTg 3'	497 5'-Tgg 3'	240 5'-ggA 3'	539 5'-TCA 3'	539 5'-TCC 3'	538 5'-CCA 3'	402 5'-CgC 3'	517 5'-CgT 3'	527 5'-CCT 3'	362 5'-TCA 3'	292 5'-gTg 3'
	368 5'-CAT 3'		497 5'-Tgg 3'	241 5'-CgC 3'	543 5'-gCC 3'		538 5'-CAA 3'	493 5'-CTA 3'			362 5'-TCA 3'	518 5'-CCA 3'
			497 5'-Tgg 3'								831 5'-TCC 3'	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product	145	95	125	110	205	175	125	135	220	160	135	75
		170	265	155	360		165	260	255		180	115
			305					295				160
Length of int. pos. control ¹	800	800	800	800	1070	1070	1070	1070	1070	1070	800	1070
5'-primer(s) ²	98 5'-CTA 3'	368 5'-gTg 3'	78 5'-TCT 3'	385 5'-ggC 3'	292 5'-CTC 3'	144 5'-gCA 3'	453 5'-AAA 3'	78 5'-TCT 3'	666 5'-gAA 3'	453 5'-AAA 3'	194 5'-Cgg 3'	453 5'-AAA 3'
	355 5'-CCT 3'	445 5'-TCT 3'		666 5'-gAA 3'	666 5'-gAA 3'			2 nd I 5'-CCA 3'			205 5'-ggg 3'	368 5'-qTT 3'
3'-primer(s) ³	200 5'-TCC 3'	497 5'-Tgg 3'	160 5'-gTT 3'	453 5'-TCT 3'	368 5'-CAA 3'	268 5'-TTg 3'	538 5'-CTg 3'	170 5'-Cgg 3'	843 5'-gTT 3'	570 5'-CCg 3'	292 5'-gTg 3'	487 5'-TgT 3'
	453 5'-TCT 3'		160 5'-gTg 3'	779 5'-CTT 3'	829 5'-CTA 3'	268 5'-TTA 3'	575 5'-ggT 3'	505 5'-gTA 3'	880 5'-gAA 3'		506 5'-TgT 3'	524 5'-CAC 3'
			302 5'-ggT 3'			290 5'-CAA 3'		538 5'-CCg 3'				527 5'-CCg 3'
			343 5'-A 3'									571 5'-CCg 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **15V**

Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	135	125	95	235	220	130	95	205	230	120	110	85
PCR product	165	165	145		300	160	220	230	325	170	155	445
	190	260	540					255				
Length of int. pos. control ¹	1070	800	1070	800	1070	800	800	1070	1070	800	1070	1070
5'-primer(s) ²	453 5'-AAA 3'	2 nd I 5'-CCA 3'	238 5'-AgA 3'	78 5'-TCT 3'	78 5'-TCT 3'	529 5'-TgA 3'	78 5'-TCT 3'	78 5'-TCT 3'	2 nd I 5'-CCA 3'	144 5'-gCA 3'	453 5'-AAA 3'	292 5'-CTC 3'
			391 5'-ACg 3'			666 5'-gAA 3'	564 5'-TgA 3'			420 5'-TAg 3'		
			391 5'-ACg 3'									
			397 5'-gCC 3'									
3'-primer(s) ³	538 5'-CTA 3'	368 5'-CAg 3'	292 5'-gTg 3'	270 5'-ACg 3'	257 5'-CCT 3'	616 5'-CgT 3'	256 5'-CTg 3'	241 5'-CgT 3'	473 5'-CgA 3'	268 5'-TTA 3'	524 5'-CAC 3'	335 5'-gC 3'
	559 5'-CTC 3'	411 5'-TCA 3'	497 5'-Tgg 3'	270 5'-ACA 3'	337 5'-CTg 3'	781 5'-CCC 3'	616 5'-CgT 3'	265 5'-CCC 3'	482 5'-Tgg 3'	282 5'-gAC 3'	524 5'-CAC 3'	453 5'-TCg 3'
	575 5'-ggT 3'	505 5'-gTA 3'				791 5'-AgT 3'		290 5'-gAC 3'	570 5'-CCg 3'	282 5'-gAC 3'	569 5'-ACA 3'	
	604 5'-CgC 3'									497 5'-Tgg 3'		
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec.	140	125	170	90	185	225	180	125	105	70	165	115
PCR product		225	240	210			225	155	185	205	205	
			265	250				200			255	
			300								305	
Length of int. pos. control ¹	1070	800	1070	1070	1070	800	800	800	1070	1070	800	1070
5'-primer(s) ²	453 5'-AAA 3'	98 5'-CTT 3'	355 5'-CCg 3'	355 5'-CCg 3'	355 5'-CCC 3'	98 5'-CTT 3'	355 5'-CCg 3'	125 5'-CgA 3'	355 5'-CCg 3'	78 5'-TCT 3'	78 5'-TCT 3'	419 5'-gTC 3'
		414 5'-CAg 3'			692 5'-gAA 3'			157 5'-TgA 3'		746 5'-gAT 3'		431 5'-CgC 3'
								451 5'-TgT 3'				
								463 5'-TgT 3'				
3'-primer(s) ³	542 5'-CTT 3'	281 5'-AgC 3'	485 5'-CCT 3'	403 5'-gCA 3'	506 5'-TgT 3'	282 5'-gAC 3'	494 5'-TCC 3'	240 5'-ggA 3'	419 5'-CgA 3'	241 5'-CgC 3'	203 5'-TCA 3'	497 5'-Tgg 3'
	559 5'-CCg 3'	497 5'-Tgg 3'	553 5'-CTA 3'	524 5'-CAC 3'	831 5'-TCC 3'	282 5'-gAC 3'	539 5'-TCC 3'	616 5'-CgT 3'	497 5'-TgA 3'	777 5'-gCA 3'	242 5'-CCA 3'	
	559 5'-CCT 3'		564 5'-ACC 3'	524 5'-CAC 3'							290 5'-CAg 3'	
			565 5'-CAT 3'	565 5'-CAT 3'							340 5'-ggT 3'	
			578 5'-Tgg 3'									
			613 5'-gCA 3'									
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **15V**

Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	115	145	410	185	225	240	200	150	105	255	145	345
PCR product	145					350		275	150		190	
Length of int. pos. control ¹	1070	800	1070	800	1070	800	1070	1070	1070	800	800	1070
5'-primer(s) ²	453 5'-AAA 3'	-111 5'-ATC 3'	292 5'-CTC 3'	98 5'-CTC 3'	355 5'-CCC 3'	2 nd I 5'-CCA 3'	81 5'-CAG 3'	78 5'-TCT 3'	78 5'-TCT 3'	78 5'-TCT 3'	666 5'-gAA 3'	292 5'-CTC 3'
							355 5'-CCg 3'					
3'-primer(s) ³	527 5'-CCg 3'	4 5'-ggC 3'	418 5'-gTC 3'	240 5'-ggA 3'	538 5'-CAA 3'	475 5'-CgA 3'	240 5'-ggA 3'	187 5'-gTg 3'	142 5'-TgA 3'	292 5'-gTC 3'	768 5'-gTg 3'	355 5'-gAT 3'
	559 5'-CCg 3'					497 5'-Tgg 3'	517 5'-CgC 3'	187 5'-gTA 3'	184 5'-gCC 3'		768 5'-gTA 3'	
	559 5'-CCT 3'					595 5'-CCg 3'		302 5'-ggC 3'	187 5'-gTA 3'		814 5'-CA. 3'	
						595 5'-CCT 3'		324 5'-TAC 3'				
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec.	185	180	95	125	145	170	100	210	170	125	135	110
PCR product			155	175	185	200	135	255	225	180	260	230
				260	250		180		335	285		260
							300					
Length of int. pos. control ¹	1070	800	800	1070	1070	800	800	1070	1070	800	800	1070
5'-primer(s) ²	355 5'-CCA 3'	666 5'-gAA 3'	420 5'-TAT 3'	395 5'-gCA 3'	78 5'-TCT 3'	81 5'-CAG 3'	78 5'-TCT 3'	78 5'-TCT 3'	78 5'-TCT 3'	78 5'-TCT 3'	78 5'-TCT 3'	2 nd I 5'-CCA 3'
			427 5'-A.g 3'	484 5'-ACT 3'	355 5'-CCg 3'	112 5'-CCT 3'	397 5'-gCC 3'		2 nd I 5'-CCA 3'			
			485 5'-CAC 3'	484 5'-ACg 3'			406 5'-gCA 3'					
				530 5'-ggT 3'			431 5'-CgC 3'					
							445 5'-TCT 3'					
3'-primer(s) ³	497 5'-Tgg 3'	806 5'-CCA 3'	538 5'-CAA 3'	616 5'-CgT 3'	184 5'-gCC 3'	240 5'-ggA 3'	218 5'-gCT 3'	244 5'-CTA 3'	263 5'-gTA 3'	164 5'-gCT 3'	172 5'-CAT 3'	353 5'-CgA 3'
					221 5'-ACA 3'		337 5'-CTA 3'	251 5'-CCT 3'	413 5'-gCC 3'	218 5'-gCC 3'	298 5'-CAg 3'	475 5'-CgA 3'
					456 5'-TCg 3'		497 5'-Tgg 3'	289 5'-AgC 3'	578 5'-TgT 3'	221 5'-ACC 3'		506 5'-TgC 3'
					559 5'-CTC 3'			299 5'-CCT 3'		319 5'-gCT 3'		
					562 5'-gCg 3'					326 5'-TgC 3'		
					565 5'-CAg 3'							
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **15V**

Lot-specific information

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	80	175	100	205	80	75	200	90	110	130	100	180
PCR product	200	250	165	230	110	130	225	135	235	255	130	205
		250	190			240	270	230	315	295	245	245
			205									
Length of int.	800	800	1070	800	800	1070	1070	1070	800	1070	800	800
pos. control ¹												
5'-primer(s) ²	78	104	453	48	78	364	78	359	2 nd I	341	355	78
	5'-TCT ^{3'}	5'-ATA ^{3'}	5'-AAA ^{3'}	5'-gCT ^{3'}	5'-TCT ^{3'}	5'-ggg ^{3'}	5'-TCT ^{3'}	5'-CCg ^{3'}	5'-CCA ^{3'}	5'-ggg ^{3'}	5'-CCg ^{3'}	5'-TCT ^{3'}
	520	395		441	385	417	453	404		666	808	484
	5'-CgT ^{3'}	5'-gCA ^{3'}		5'-TAA ^{3'}	5'-ggA ^{3'}	5'-CAC ^{3'}	5'-AAA ^{3'}	5'-CCC ^{3'}		5'-gAA ^{3'}	5'-CgA ^{3'}	5'-ACT ^{3'}
		415		463		666		666				
		5'-ACT ^{3'}		5'-TgT ^{3'}		5'-gAA ^{3'}		5'-gAA ^{3'}				
3'-primer(s) ³	239	240	514	106	119	453	255	453	353	355	442	221
	5'-gAT ^{3'}	5'-ggA ^{3'}	5'-CTA ^{3'}	5'-CAT ^{3'}	5'-ggT ^{3'}	5'-TCT ^{3'}	5'-Cgg ^{3'}	5'-TCT ^{3'}	5'-CgA ^{3'}	5'-gAC ^{3'}	5'-gAC ^{3'}	5'-ACC ^{3'}
	289	616	578	616	121	866	260	853	482	755	555	241
	5'-AgC ^{3'}	5'-CgT ^{3'}	5'-TgT ^{3'}	5'-CgT ^{3'}	5'-gCA ^{3'}	5'-AAA ^{3'}	5'-T.T ^{3'}	5'-CAT ^{3'}	5'-Tgg ^{3'}	5'-CCA ^{3'}	5'-CCA ^{3'}	5'-CgA ^{3'}
	559		604		453		299		553	880	562	284
	5'-CgT ^{3'}		5'-CgC ^{3'}		5'-TCT ^{3'}		5'-CCT ^{3'}		5'-CTT ^{3'}	5'-gAA ^{3'}	5'-gCg ^{3'}	5'-.g ^{3'}
			616				319		559		868	616
			5'-CgC ^{3'}				5'-gCT ^{3'}		5'-CTT ^{3'}		5'-CAA ^{3'}	5'-CgT ^{3'}
							610					
							5'-CTA ^{3'}					
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

Well No.	85	86	87	88	89	90	91	92	93	94	95
Length of spec.	170	180	155	135	120	100	110	180	130	110	135
PCR product	260	255	210	250	150	130		260	250	210	
		310			200	190			295	360	
Length of int.	800	800	800	800	800	800	800	1070	800	800	800
pos. control ¹											
5'-primer(s) ²	411	2 nd I	78	78	453	143	379	78	364	124	412
	5'-TAg ^{3'}	5'-CCA ^{3'}	5'-TCT ^{3'}	5'-TCT ^{3'}	5'-AAA ^{3'}	5'-CgT ^{3'}	5'-ACC ^{3'}	5'-TCT ^{3'}	5'-ggT ^{3'}	5'-gCA ^{3'}	5'-ATg ^{3'}
	666		392	419	652	205	379		409	223	
	5'-gAA ^{3'}		5'-CTA ^{3'}	5'-gTC ^{3'}	5'-CTg ^{3'}	5'-ggg ^{3'}	5'-ACT ^{3'}		5'-ggC ^{3'}	5'-Cgg ^{3'}	
						229	385		529	229	
						5'-TAC ^{3'}	5'-ggC ^{3'}		5'-TgA ^{3'}	5'-TAC ^{3'}	
						235	385			2 nd I	
						5'-AgA ^{3'}	5'-ggA ^{3'}			5'-CCA ^{3'}	
						244					
						5'-CgC ^{3'}					
3'-primer(s) ³	538	423	187	175	542	292	453	218	616	292	506
	5'-CAA ^{3'}	5'-TAA ^{3'}	5'-gTg ^{3'}	5'-CCA ^{3'}	5'-CTg ^{3'}	5'-gTg ^{3'}	5'-TCT ^{3'}	5'-gCA ^{3'}	5'-CgT ^{3'}	5'-gTg ^{3'}	5'-TgT ^{3'}
	801	502	193	277	610			295		605	
	5'-CAC ^{3'}	5'-CTg ^{3'}	5'-Cgg ^{3'}	5'-ggT ^{3'}	5'-CTA ^{3'}			5'-TCA ^{3'}		5'-gCA ^{3'}	
	884	557	559	295	727			299			
	5'-ggA ^{3'}	5'-TgT ^{3'}	5'-CgT ^{3'}	5'-TCA ^{3'}	5'-CCA ^{3'}			5'-TCg ^{3'}			
				506	763						
				5'-TgT ^{3'}	5'-CAT ^{3'}						
Well No.	85	86	87	88	89	90	91	92	93	94	95

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **15V**

Lot-specific information

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.

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **15V**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-A*02 SSP subtyping kit ²																			
				Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				201328201	201203302	201206603	201190204	201328205	201190206	201190207	201190208	201190209	201190210	201190211	201190212	201318013	201190214	201190215	201203316
	IHWC cell line ¹	A*	A*	Lot No.:															
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	W	-	-	-	-	-	-	-	-	W	-	-	-	-	-	-
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	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **15V**

Lot-specific information

CELL LINE VALIDATION SHEET																					
HLA-A*02 SSP subtyping kit ²																					
				Well																	
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
				Lot No.:	201190217	201318018	201206619	201328220	201206621	201190222	201190223	201328224	201328225	201190226	201328227	201190228	201190229	201190230	201190231	201190232	
	IHWC 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 SSTS	*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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **15V**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-A*02 SSP subtyping kit ²																				
				Well																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Lot No.:	201190233	2011318034	2011328235	201190236	201206637	201318038	201328239	201328240	201190241	201190242	201190243	201328244	201190245	201318046	201206647	201190248
	IHWC 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	-	-	-	W	-	-	-	-	-	+	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **15V**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-A*02 SSP subtyping kit ²																			
				Well															
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
				201206649	201190250	201190251	201190252	201190253	201190254	201206655	201190256	201190257	201190258	201206659	201190260	201190261	201190262	201318063	201206664
	IHWC cell line ¹	A*	A*	Lot No.:															
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	-	-	W	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **15V**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-A*02 SSP subtyping kit²																			
				Well															
				65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
				201328265	201328266	201328267	201328268	201206669	201328270	201328271	201190272	201206673	201206674	201328275	201328276	201318077	201206678	201328279	201206680
	IHWC cell line ¹	A*	A*	Lot No.:															
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **15V**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-A*02 SSP subtyping kit ²																			
				Well															
				81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	
				201206681	201318082	201328283	201206684	201318085	201206686	201318087	201328288	201328289	201328290	201206691	201328292	201190293	201328294	201190295	
	IHWC cell line ¹	A*	A*	Lot No.:															
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		-	-	-	-	-	-	-	-	-	-	-	-	-		
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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		-	-	-	-	-	-	-	-	-	-	-	-	-		

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.

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 15V

Lot-specific information

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 15, 20, 21, 24, 26, 29, 30, 32, 38, 40, 44, 46 to 48, 50, 52, 54, 56, 57, 59, 63 to 74, 76 to 90 and 92 to 95 were available.

The specificities of the primers in primer solutions 15, 20, 26, 30, 32, 38, 40, 46, 47, 52, 56, 57, 63, 65 to 67, 69, 72, 73, 76 to 78, 80, 82 to 88 and 92 to 95 were tested by separately adding additional 5'-primers respectively 3'-primers.

In primer solutions 21, 24, 29, 54, 59, 68, 70, 71, 79, 81 and 89 it was only possible to test the 5'-primer, the 3'-primer were not possible to test.

In primer solutions 44, 48, 64, 74 and 90 it was only possible to test the 3'-primer, the 5'-primer was not possible to test.

In primer solution 50 neither the 5'-primers nor the 3'-primers were possible to test.

In primer solutions 3 to 5, 8, 12, 15, 17 to 20, 25, 26, 28, 30, 32 to 40, 43, 45 to 47, 49, 56, 57, 65, 67, 69, 72, 73, 75 to 78, 80, 82 to 88, 92 and 94 one or several of the 3'-primers were not possible to test.

In primer solutions 11, 13, 14, 23, 27, 30, 34, 38, 41, 46, 63, 66, 67, 73, 76 to 78, 80, 82 to 85, 87, 91, 93 and 94 one or more of the 5'-primers were not possible to test.

Additional primers in primer solutions 10 to 13, 17, 23, 27, 31, 34, 35, 41, 49 and 91 were tested by separately adding either one additional 3'-primer or one additional 5'-primer.

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **15V**

Lot-specific information

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