

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

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

Lot No.: 7D9

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:	7D9
Expiry date:	2018-11-01
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. 7D9.

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 (95Y)**

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 HLA-A*02 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP[®]* HLA-A*02 lot was made (**Lot No. 95Y**). The kit design is based on IMGT/HLA database 3.23.0.

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
26	-	Modified	3'-primer modified for improved HLA-specific amplification.
27	Added	-	5'-primer added for the A*02:597 allele.
30	-	Added	3'-primer added for the A*02:608N allele.
46	Removed, Added	Removed, Added	Primer pair removed for improved HLA-specific amplification, primer pair added for the A*02:66 allele.
59	-	Added	3'-primer added for the A*02:608N allele.
63	Added	-	5'-primer added for the A*02:605Q allele.
75	-	Removed	3'-primer removed for improved HLA-specific amplification.
85	Added	-	5'-primer added for the A*02:605Q allele.
90	Added	-	5'-primer added for the A*02:591 allele.
93	Added	-	5'-primer added for the A*02:157:02 allele.
94	Added	-	5'-primer added for the A*02:597 allele.

Change in revision R01 compared to R00:

1. Primer mix 2 amplifies the A*02:394 allele. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R02 compared to R01:

1. In the Specificity Table, a footnote has been removed for primer mix 46.

Change in revision R03 compared to R02:

1. In the Specificity Table, the size of the positive control band has been corrected to 800 base pairs for primer mix 33.

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Well **96** contains Negative Control primer pairs, that will amplify more than 95% of the Olerup SSP[®] HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

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

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

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

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

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Lot-specific information

PRODUCT DESCRIPTION

HLA-A*02 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the A*02:01 to A*02:610 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. ‘7D9’.

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 13, 15 to 17, 19, 22 to 25, 27 to 29, 31, 32, 34 to 37, 40 to 43, 45, 47, 49, 51 to 53, 55, 58, 60 to 64, 73, 75, 76, 83 to 85, 87, 89 to 91, 93 and 95. In addition, a few HLA-B and HLA-C alleles will be amplified by primer mixes 5, 10, 15, 16, 24, 25, 34, 41, 43, 49, 53, 55, 75, 88, 91, 93 and 95.

For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All HLA-A*02 alleles recognized by the HLA Nomenclature Committee in January 2016, i.e. **A*02:01 to A*02:610**, will be amplified by the primers in the HLA-A*02 subtyping kit^{1,2}.

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Lot-specific information

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*02:01:02, 02:141, 02:275	90	A*02:134, 02:314N	85
A*02:01:83, 02:01:105, 02:01:107, 02:343, 02:399	55	A*02:138, 02:284N	87
A*02:06:05, 02:06:09, 02:72	90	A*02:139, 02:235	88
A*02:28, 02:409	27	A*02:140, 02:468:02N	89
A*02:60:01-02:60:02, 02:254, 02:501N	45	A*02:145, 02:221	64
A*02:96, 02:587	15	A*02:150, 02:197, 02:325	94
A*02:97:01-02:97:02, 02:305N	59	A*02:159, 02:293Q, 02:364, 02:390	39
A*02:107, 02:202, 02:251, 02:581	65	A*02:180, 02:358	29
A*02:111, 02:350N	67	A*02:193, 02:213	78
A*02:116, 02:196	71	A*02:233, 02:459	24
A*02:119, 02:263	73	A*02:269, 02:367	70
A*02:120, 02:223N	74	A*02:301N, 02:524	63
A*02:132, 02:215, 02:237, 02:467	83	A*02:419, 02:476N	79

The HLA-A*02 subtyping kit cannot distinguish the silent mutations in the A*02:01:01:01, 02:01:01:03-02:01:01:06, 02:01:04-02:01:13, 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, 02:01:89-02:01:90, 02:01:92-02:01:100, 02:01:102-02:01:104, 02:01:108-02:01:112, 02:01:114-02:01:117, 02:01:119, 02:01:121 and 02:217:01 alleles, the A*02:01:03, 02:01:101, 02:01:106, 02:01:120 and 02:243:01-02:243:02 alleles, the A*02:01:17, 02:01:52, 02:01:63, 02:01:74 and 02:01:113 alleles, the A*02:01:83, 02:01:105 and 02:01:107 alleles, the A*02:01:87, 02:01:91 and 02:01:118 alleles, the A*02:02:01-02:02:02 alleles, the A*02:03:01 and 02:03:03-02:03:08 alleles, the A*02:05:01-02:05:06 alleles, the A*02:06:01:01-02:06:04, 02:06:06-02:06:08, 02:06:10-02:06:11, 02:06:13-02:06:19 and 02:06:21-02:06:22 alleles, the A*02:06:05 and 02:06:09 alleles, the A*02:06:12 and 02:06:20 alleles, the A*02:07:01-02:07:08 alleles, the A*02:11:01, 02:11:03-02:11:09 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*02:64:01-02:64:02 alleles, the A*02:74:01-02:74:02 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, the A*02:113:01N-02:113:02N alleles, the A*02:153:01-02:153:02 alleles, the A*02:157:01-02:157:02 alleles, the A*02:171:01-02:171:02 alleles and the A*02:289:01-02:289:02 alleles.

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¹HLA-A alleles listed on the IMGT/HLA web page 2016-January-19, release 3.23.0, www.ebi.ac.uk/imgt/hla.

²Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page <http://hla.alleles.org/alleles/deleted.html>.

ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*02:01:01:01	Confirmed	A*02:01:48	Unconfirmed	A*02:01:99	Unconfirmed	A*02:06:07	Confirmed
A*02:01:01:02L	Confirmed	A*02:01:49	Confirmed	A*02:01:100	Confirmed	A*02:06:08	Confirmed
A*02:01:01:03	Unconfirmed	A*02:01:50	Confirmed	A*02:01:101	Unconfirmed	A*02:06:09	Unconfirmed
A*02:01:01:04	Unconfirmed	A*02:01:51	Confirmed	A*02:01:102	Confirmed	A*02:06:10	Unconfirmed
A*02:01:01:05	Confirmed	A*02:01:52	Confirmed	A*02:01:103	Confirmed	A*02:06:11	Confirmed
A*02:01:01:06	Unconfirmed	A*02:01:53	Unconfirmed	A*02:01:104	Unconfirmed	A*02:06:12	Confirmed
A*02:01:02	Confirmed	A*02:01:54	Unconfirmed	A*02:01:105	Unconfirmed	A*02:06:13	Unconfirmed
A*02:01:03	Confirmed	A*02:01:55	Unconfirmed	A*02:01:106	Unconfirmed	A*02:06:14	Unconfirmed
A*02:01:04	Confirmed	A*02:01:56	Unconfirmed	A*02:01:107	Unconfirmed	A*02:06:15	Unconfirmed
A*02:01:05	Unconfirmed	A*02:01:57	Unconfirmed	A*02:01:108	Unconfirmed	A*02:06:16	Unconfirmed
A*02:01:06	Unconfirmed	A*02:01:58	Unconfirmed	A*02:01:109	Unconfirmed	A*02:06:17	Unconfirmed
A*02:01:07	Unconfirmed	A*02:01:59	Unconfirmed	A*02:01:110	Unconfirmed	A*02:06:18	Confirmed
A*02:01:08	Unconfirmed	A*02:01:60	Unconfirmed	A*02:01:111	Unconfirmed	A*02:06:19	Unconfirmed
A*02:01:09	Confirmed	A*02:01:61	Confirmed	A*02:01:112	Unconfirmed	A*02:06:20	Unconfirmed
A*02:01:10	Unconfirmed	A*02:01:62	Unconfirmed	A*02:01:113	Unconfirmed	A*02:06:21	Unconfirmed
A*02:01:11	Unconfirmed	A*02:01:63	Unconfirmed	A*02:01:114	Confirmed	A*02:06:22	Unconfirmed
A*02:01:12	Unconfirmed	A*02:01:64	Unconfirmed	A*02:01:115	Unconfirmed	A*02:07:01	Confirmed
A*02:01:13	Unconfirmed	A*02:01:65	Unconfirmed	A*02:01:116	Unconfirmed	A*02:07:02	Unconfirmed
A*02:01:14Q	Confirmed	A*02:01:66	Unconfirmed	A*02:01:117	Unconfirmed	A*02:07:03	Unconfirmed
A*02:01:15	Unconfirmed	A*02:01:67	Unconfirmed	A*02:01:118	Unconfirmed	A*02:07:04	Unconfirmed
A*02:01:17	Unconfirmed	A*02:01:68	Unconfirmed	A*02:01:119	Unconfirmed	A*02:07:05	Unconfirmed
A*02:01:18	Confirmed	A*02:01:69	Confirmed	A*02:01:120	Confirmed	A*02:07:06	Unconfirmed
A*02:01:19	Unconfirmed	A*02:01:70	Confirmed	A*02:01:121	Unconfirmed	A*02:07:07	Unconfirmed
A*02:01:21	Unconfirmed	A*02:01:71	Confirmed	A*02:02:01:01	Confirmed	A*02:07:08	Unconfirmed
A*02:01:22	Confirmed	A*02:01:72	Unconfirmed	A*02:02:01:02	Unconfirmed	A*02:08	Confirmed
A*02:01:23	Confirmed	A*02:01:73	Unconfirmed	A*02:02:02	Confirmed	A*02:09	Confirmed
A*02:01:24	Confirmed	A*02:01:74	Confirmed	A*02:02:03	Unconfirmed	A*02:10	Confirmed
A*02:01:25	Confirmed	A*02:01:75	Unconfirmed	A*02:03:01	Confirmed	A*02:11:01	Confirmed
A*02:01:26	Confirmed	A*02:01:76	Unconfirmed	A*02:03:02	Unconfirmed	A*02:11:02	Confirmed
A*02:01:27	Confirmed	A*02:01:77	Unconfirmed	A*02:03:03	Confirmed	A*02:11:03	Unconfirmed
A*02:01:28	Unconfirmed	A*02:01:78	Unconfirmed	A*02:03:04	Unconfirmed	A*02:11:04	Unconfirmed
A*02:01:29	Confirmed	A*02:01:79	Unconfirmed	A*02:03:05	Unconfirmed	A*02:11:05	Unconfirmed
A*02:01:30	Confirmed	A*02:01:80	Unconfirmed	A*02:03:06	Unconfirmed	A*02:11:06	Confirmed
A*02:01:31	Confirmed	A*02:01:81	Unconfirmed	A*02:03:07	Unconfirmed	A*02:11:07	Unconfirmed
A*02:01:32	Confirmed	A*02:01:83	Unconfirmed	A*02:03:08	Unconfirmed	A*02:11:08	Unconfirmed
A*02:01:33	Unconfirmed	A*02:01:84	Confirmed	A*02:04	Confirmed	A*02:11:09	Unconfirmed
A*02:01:34	Confirmed	A*02:01:85	Unconfirmed	A*02:05:01	Confirmed	A*02:12	Confirmed
A*02:01:35	Confirmed	A*02:01:86	Confirmed	A*02:05:02	Confirmed	A*02:13	Confirmed
A*02:01:36	Confirmed	A*02:01:87	Confirmed	A*02:05:03	Unconfirmed	A*02:14	Confirmed
A*02:01:37	Confirmed	A*02:01:88	Unconfirmed	A*02:05:04	Confirmed	A*02:15N	Unconfirmed
A*02:01:38	Confirmed	A*02:01:89	Unconfirmed	A*02:05:05	Unconfirmed	A*02:16	Unconfirmed
A*02:01:39	Confirmed	A*02:01:90	Unconfirmed	A*02:05:06	Unconfirmed	A*02:17:01	Confirmed
A*02:01:40	Confirmed	A*02:01:91	Unconfirmed	A*02:06:01:01	Confirmed	A*02:17:02	Confirmed
A*02:01:41	Unconfirmed	A*02:01:92	Unconfirmed	A*02:06:01:02	Unconfirmed	A*02:17:03	Unconfirmed
A*02:01:42	Confirmed	A*02:01:93	Unconfirmed	A*02:06:01:03	Confirmed	A*02:18	Unconfirmed
A*02:01:43	Confirmed	A*02:01:94	Unconfirmed	A*02:06:02	Unconfirmed	A*02:19	Unconfirmed
A*02:01:44	Unconfirmed	A*02:01:95	Unconfirmed	A*02:06:03	Unconfirmed	A*02:20:01	Confirmed
A*02:01:45	Confirmed	A*02:01:96	Unconfirmed	A*02:06:04	Unconfirmed	A*02:20:02	Unconfirmed
A*02:01:46	Confirmed	A*02:01:97	Unconfirmed	A*02:06:05	Confirmed	A*02:21	Unconfirmed
A*02:01:47	Confirmed	A*02:01:98	Unconfirmed	A*02:06:06	Unconfirmed	A*02:22:01	Confirmed

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Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*02:22:02	Unconfirmed	A*02:66	Confirmed	A*02:113:01N	Confirmed	A*02:160	Confirmed
A*02:24:01	Confirmed	A*02:67	Unconfirmed	A*02:113:02N	Unconfirmed	A*02:161	Confirmed
A*02:24:02	Unconfirmed	A*02:68	Unconfirmed	A*02:114	Confirmed	A*02:162	Unconfirmed
A*02:25	Confirmed	A*02:69	Unconfirmed	A*02:115	Unconfirmed	A*02:163	Confirmed
A*02:26	Unconfirmed	A*02:70	Unconfirmed	A*02:116	Unconfirmed	A*02:164	Confirmed
A*02:27	Confirmed	A*02:71	Unconfirmed	A*02:117	Unconfirmed	A*02:165	Confirmed
A*02:28	Confirmed	A*02:72	Unconfirmed	A*02:118	Confirmed	A*02:166	Confirmed
A*02:29	Confirmed	A*02:73	Unconfirmed	A*02:119	Confirmed	A*02:167	Unconfirmed
A*02:30	Confirmed	A*02:74:01	Unconfirmed	A*02:120	Unconfirmed	A*02:168	Unconfirmed
A*02:31	Unconfirmed	A*02:74:02	Unconfirmed	A*02:121	Confirmed	A*02:169	Confirmed
A*02:32N	Unconfirmed	A*02:75	Unconfirmed	A*02:122	Confirmed	A*02:170	Unconfirmed
A*02:33	Confirmed	A*02:76:01	Confirmed	A*02:123	Confirmed	A*02:171:01	Unconfirmed
A*02:34	Unconfirmed	A*02:76:02	Unconfirmed	A*02:124	Unconfirmed	A*02:171:02	Unconfirmed
A*02:35:01	Confirmed	A*02:77	Confirmed	A*02:125N	Confirmed	A*02:172	Confirmed
A*02:35:02	Unconfirmed	A*02:78	Unconfirmed	A*02:126	Unconfirmed	A*02:173	Confirmed
A*02:35:03	Unconfirmed	A*02:79:01	Unconfirmed	A*02:127	Unconfirmed	A*02:174	Confirmed
A*02:36	Confirmed	A*02:79:02	Unconfirmed	A*02:128	Confirmed	A*02:175	Unconfirmed
A*02:37	Unconfirmed	A*02:80	Confirmed	A*02:129	Confirmed	A*02:176	Confirmed
A*02:38	Confirmed	A*02:81	Unconfirmed	A*02:130	Unconfirmed	A*02:177	Confirmed
A*02:39	Confirmed	A*02:82N	Confirmed	A*02:131	Confirmed	A*02:178	Unconfirmed
A*02:40:01	Confirmed	A*02:83N	Confirmed	A*02:132	Unconfirmed	A*02:179	Unconfirmed
A*02:40:02	Confirmed	A*02:84	Confirmed	A*02:133	Confirmed	A*02:180	Confirmed
A*02:41	Confirmed	A*02:85	Confirmed	A*02:134	Unconfirmed	A*02:181	Unconfirmed
A*02:42	Confirmed	A*02:86	Confirmed	A*02:135	Unconfirmed	A*02:182	Confirmed
A*02:43N	Unconfirmed	A*02:87	Confirmed	A*02:136	Confirmed	A*02:183	Confirmed
A*02:44	Confirmed	A*02:88N	Unconfirmed	A*02:137	Unconfirmed	A*02:184	Unconfirmed
A*02:45	Unconfirmed	A*02:89	Unconfirmed	A*02:138	Unconfirmed	A*02:185	Unconfirmed
A*02:46	Unconfirmed	A*02:90	Confirmed	A*02:139	Confirmed	A*02:186	Confirmed
A*02:47	Unconfirmed	A*02:91	Unconfirmed	A*02:140	Unconfirmed	A*02:187	Unconfirmed
A*02:48	Confirmed	A*02:92	Unconfirmed	A*02:141	Confirmed	A*02:188	Confirmed
A*02:49	Confirmed	A*02:93	Confirmed	A*02:142	Unconfirmed	A*02:189	Confirmed
A*02:50	Unconfirmed	A*02:94N	Unconfirmed	A*02:143	Unconfirmed	A*02:190	Confirmed
A*02:51	Confirmed	A*02:95	Confirmed	A*02:144	Unconfirmed	A*02:191	Unconfirmed
A*02:52	Unconfirmed	A*02:96	Confirmed	A*02:145	Unconfirmed	A*02:192	Unconfirmed
A*02:53N	Confirmed	A*02:97:01	Confirmed	A*02:146	Confirmed	A*02:193	Confirmed
A*02:54	Confirmed	A*02:97:02	Unconfirmed	A*02:147	Confirmed	A*02:194	Confirmed
A*02:55	Confirmed	A*02:99	Unconfirmed	A*02:148	Unconfirmed	A*02:195	Unconfirmed
A*02:56:01	Unconfirmed	A*02:101:01	Unconfirmed	A*02:149	Confirmed	A*02:196	Unconfirmed
A*02:56:02	Unconfirmed	A*02:101:02	Confirmed	A*02:150	Unconfirmed	A*02:197	Confirmed
A*02:57	Unconfirmed	A*02:102	Confirmed	A*02:151	Confirmed	A*02:198	Confirmed
A*02:58	Confirmed	A*02:103	Unconfirmed	A*02:152	Unconfirmed	A*02:199	Confirmed
A*02:59	Unconfirmed	A*02:104	Unconfirmed	A*02:153:01	Confirmed	A*02:200	Confirmed
A*02:60:01	Confirmed	A*02:105	Confirmed	A*02:153:02	Unconfirmed	A*02:201	Unconfirmed
A*02:60:02	Unconfirmed	A*02:106	Unconfirmed	A*02:154	Confirmed	A*02:202	Confirmed
A*02:61	Confirmed	A*02:107	Unconfirmed	A*02:155	Unconfirmed	A*02:203	Confirmed
A*02:62	Unconfirmed	A*02:108	Unconfirmed	A*02:156	Unconfirmed	A*02:204	Unconfirmed
A*02:63	Unconfirmed	A*02:109	Unconfirmed	A*02:157:01	Unconfirmed	A*02:205	Confirmed
A*02:64:01	Confirmed	A*02:110	Confirmed	A*02:157:02	Unconfirmed	A*02:206	Confirmed
A*02:64:02	Unconfirmed	A*02:111	Unconfirmed	A*02:158	Confirmed	A*02:207	Confirmed
A*02:65	Unconfirmed	A*02:112	Unconfirmed	A*02:159	Unconfirmed	A*02:208	Unconfirmed

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.: **7D9**

Lot-specific information

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*02:209	Unconfirmed	A*02:256	Unconfirmed	A*02:305N	Unconfirmed	A*02:355	Unconfirmed
A*02:210	Unconfirmed	A*02:257	Unconfirmed	A*02:306	Unconfirmed	A*02:356N	Unconfirmed
A*02:211:01	Confirmed	A*02:258	Unconfirmed	A*02:307	Unconfirmed	A*02:357	Unconfirmed
A*02:211:02	Unconfirmed	A*02:259	Confirmed	A*02:308	Unconfirmed	A*02:358	Unconfirmed
A*02:212	Unconfirmed	A*02:260	Confirmed	A*02:309	Unconfirmed	A*02:359	Unconfirmed
A*02:213	Confirmed	A*02:261	Unconfirmed	A*02:310	Unconfirmed	A*02:360	Confirmed
A*02:214	Confirmed	A*02:262	Unconfirmed	A*02:311	Unconfirmed	A*02:361	Unconfirmed
A*02:215	Confirmed	A*02:263	Confirmed	A*02:312	Unconfirmed	A*02:362	Unconfirmed
A*02:216	Unconfirmed	A*02:264	Unconfirmed	A*02:313	Confirmed	A*02:363	Unconfirmed
A*02:217:01	Unconfirmed	A*02:265	Unconfirmed	A*02:314N	Unconfirmed	A*02:364	Unconfirmed
A*02:217:02	Unconfirmed	A*02:266	Unconfirmed	A*02:315	Confirmed	A*02:365	Unconfirmed
A*02:218	Unconfirmed	A*02:267	Confirmed	A*02:316	Unconfirmed	A*02:366N	Unconfirmed
A*02:219	Unconfirmed	A*02:268	Unconfirmed	A*02:317	Unconfirmed	A*02:367	Confirmed
A*02:220	Unconfirmed	A*02:269	Confirmed	A*02:318	Unconfirmed	A*02:368	Unconfirmed
A*02:221	Confirmed	A*02:270	Unconfirmed	A*02:319	Unconfirmed	A*02:369	Unconfirmed
A*02:222N	Unconfirmed	A*02:271	Unconfirmed	A*02:320	Unconfirmed	A*02:370	Unconfirmed
A*02:223N	Confirmed	A*02:272	Unconfirmed	A*02:321N	Unconfirmed	A*02:371	Unconfirmed
A*02:224	Unconfirmed	A*02:273	Unconfirmed	A*02:322	Unconfirmed	A*02:372	Unconfirmed
A*02:225N	Unconfirmed	A*02:274	Unconfirmed	A*02:323	Confirmed	A*02:373N	Unconfirmed
A*02:226N	Unconfirmed	A*02:275	Confirmed	A*02:324	Unconfirmed	A*02:374	Unconfirmed
A*02:227N	Confirmed	A*02:276	Unconfirmed	A*02:325	Confirmed	A*02:375	Unconfirmed
A*02:228	Confirmed	A*02:277	Unconfirmed	A*02:326	Unconfirmed	A*02:376	Unconfirmed
A*02:229	Confirmed	A*02:278	Unconfirmed	A*02:327	Unconfirmed	A*02:377	Confirmed
A*02:230	Confirmed	A*02:279	Unconfirmed	A*02:328	Unconfirmed	A*02:378	Unconfirmed
A*02:231	Unconfirmed	A*02:280	Unconfirmed	A*02:329	Unconfirmed	A*02:379	Unconfirmed
A*02:232	Unconfirmed	A*02:281	Unconfirmed	A*02:330	Confirmed	A*02:380	Confirmed
A*02:233	Confirmed	A*02:282	Unconfirmed	A*02:331	Unconfirmed	A*02:381	Unconfirmed
A*02:234	Unconfirmed	A*02:283	Confirmed	A*02:332	Unconfirmed	A*02:382	Unconfirmed
A*02:235	Confirmed	A*02:284N	Unconfirmed	A*02:333	Unconfirmed	A*02:383	Unconfirmed
A*02:236	Unconfirmed	A*02:285	Unconfirmed	A*02:334	Unconfirmed	A*02:384	Confirmed
A*02:237	Confirmed	A*02:286	Unconfirmed	A*02:335	Unconfirmed	A*02:385	Unconfirmed
A*02:238	Unconfirmed	A*02:287	Unconfirmed	A*02:336	Unconfirmed	A*02:386	Unconfirmed
A*02:239	Unconfirmed	A*02:288	Unconfirmed	A*02:337	Unconfirmed	A*02:387	Unconfirmed
A*02:240	Unconfirmed	A*02:289:01	Confirmed	A*02:338	Confirmed	A*02:388	Unconfirmed
A*02:241	Unconfirmed	A*02:289:02	Unconfirmed	A*02:339	Unconfirmed	A*02:389	Unconfirmed
A*02:242	Confirmed	A*02:290	Unconfirmed	A*02:340	Unconfirmed	A*02:390	Confirmed
A*02:243:01	Unconfirmed	A*02:291	Confirmed	A*02:341	Unconfirmed	A*02:391	Confirmed
A*02:243:02	Unconfirmed	A*02:292	Unconfirmed	A*02:342	Confirmed	A*02:392	Confirmed
A*02:244	Unconfirmed	A*02:293Q	Unconfirmed	A*02:343	Confirmed	A*02:393	Confirmed
A*02:245	Confirmed	A*02:294	Unconfirmed	A*02:344	Confirmed	A*02:394	Confirmed
A*02:246	Confirmed	A*02:295	Unconfirmed	A*02:345	Unconfirmed	A*02:395N	Unconfirmed
A*02:247	Unconfirmed	A*02:296	Unconfirmed	A*02:346	Unconfirmed	A*02:396	Unconfirmed
A*02:248	Unconfirmed	A*02:297	Unconfirmed	A*02:347	Unconfirmed	A*02:397	Unconfirmed
A*02:249	Unconfirmed	A*02:298	Unconfirmed	A*02:348	Confirmed	A*02:398	Unconfirmed
A*02:250N	Unconfirmed	A*02:299	Confirmed	A*02:349	Unconfirmed	A*02:399	Unconfirmed
A*02:251	Confirmed	A*02:300	Unconfirmed	A*02:350N	Confirmed	A*02:400	Unconfirmed
A*02:252	Unconfirmed	A*02:301N	Unconfirmed	A*02:351	Confirmed	A*02:401	Unconfirmed
A*02:253	Unconfirmed	A*02:302	Unconfirmed	A*02:352	Unconfirmed	A*02:402	Unconfirmed
A*02:254	Unconfirmed	A*02:303	Unconfirmed	A*02:353	Unconfirmed	A*02:403	Unconfirmed
A*02:255	Unconfirmed	A*02:304	Unconfirmed	A*02:354	Unconfirmed	A*02:404	Confirmed

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.: 7D9

Lot-specific information

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*02:405	Unconfirmed	A*02:455	Unconfirmed	A*02:504	Unconfirmed	A*02:554	Unconfirmed
A*02:406	Confirmed	A*02:456	Unconfirmed	A*02:505	Unconfirmed	A*02:555	Unconfirmed
A*02:407	Confirmed	A*02:457	Unconfirmed	A*02:506N	Unconfirmed	A*02:556	Unconfirmed
A*02:408	Unconfirmed	A*02:458	Unconfirmed	A*02:507	Unconfirmed	A*02:557	Unconfirmed
A*02:409	Confirmed	A*02:459	Unconfirmed	A*02:508	Unconfirmed	A*02:558	Unconfirmed
A*02:410	Unconfirmed	A*02:460	Confirmed	A*02:509	Unconfirmed	A*02:559	Unconfirmed
A*02:411	Unconfirmed	A*02:461	Unconfirmed	A*02:510	Unconfirmed	A*02:560	Unconfirmed
A*02:412	Unconfirmed	A*02:462	Unconfirmed	A*02:511	Unconfirmed	A*02:561	Unconfirmed
A*02:413	Unconfirmed	A*02:463	Unconfirmed	A*02:512	Unconfirmed	A*02:562	Unconfirmed
A*02:414	Unconfirmed	A*02:464	Unconfirmed	A*02:513	Unconfirmed	A*02:563	Unconfirmed
A*02:415	Unconfirmed	A*02:465	Unconfirmed	A*02:514N	Unconfirmed	A*02:564	Unconfirmed
A*02:416	Unconfirmed	A*02:466	Unconfirmed	A*02:515	Unconfirmed	A*02:565	Unconfirmed
A*02:417	Unconfirmed	A*02:467	Unconfirmed	A*02:516N	Unconfirmed	A*02:566	Unconfirmed
A*02:418	Unconfirmed	A*02:468:01N	Unconfirmed	A*02:517	Unconfirmed	A*02:567	Unconfirmed
A*02:419	Confirmed	A*02:468:02N	Unconfirmed	A*02:518	Unconfirmed	A*02:568	Unconfirmed
A*02:420	Unconfirmed	A*02:469	Unconfirmed	A*02:519	Unconfirmed	A*02:569	Unconfirmed
A*02:421	Unconfirmed	A*02:470	Unconfirmed	A*02:520	Unconfirmed	A*02:570	Unconfirmed
A*02:422	Unconfirmed	A*02:471	Unconfirmed	A*02:521	Unconfirmed	A*02:571	Unconfirmed
A*02:423	Unconfirmed	A*02:472	Unconfirmed	A*02:522	Unconfirmed	A*02:572	Unconfirmed
A*02:424	Unconfirmed	A*02:473	Unconfirmed	A*02:523	Unconfirmed	A*02:573	Unconfirmed
A*02:425	Unconfirmed	A*02:474	Unconfirmed	A*02:524	Unconfirmed	A*02:574	Unconfirmed
A*02:426	Confirmed	A*02:475	Unconfirmed	A*02:525N	Unconfirmed	A*02:575	Unconfirmed
A*02:427	Unconfirmed	A*02:476N	Unconfirmed	A*02:526	Unconfirmed	A*02:576	Unconfirmed
A*02:428	Unconfirmed	A*02:477	Unconfirmed	A*02:527	Unconfirmed	A*02:577	Unconfirmed
A*02:429	Confirmed	A*02:478	Unconfirmed	A*02:528	Confirmed	A*02:578	Unconfirmed
A*02:430	Unconfirmed	A*02:479	Unconfirmed	A*02:529	Unconfirmed	A*02:579	Unconfirmed
A*02:431	Unconfirmed	A*02:480	Unconfirmed	A*02:530	Unconfirmed	A*02:580	Confirmed
A*02:432	Unconfirmed	A*02:481	Confirmed	A*02:531	Unconfirmed	A*02:581	Unconfirmed
A*02:433	Confirmed	A*02:482	Unconfirmed	A*02:532	Unconfirmed	A*02:582	Unconfirmed
A*02:434	Confirmed	A*02:483	Unconfirmed	A*02:533	Unconfirmed	A*02:583	Unconfirmed
A*02:435	Unconfirmed	A*02:484	Unconfirmed	A*02:534	Unconfirmed	A*02:584	Unconfirmed
A*02:436	Confirmed	A*02:485	Unconfirmed	A*02:535	Unconfirmed	A*02:585	Unconfirmed
A*02:437	Confirmed	A*02:486	Confirmed	A*02:536	Unconfirmed	A*02:586	Unconfirmed
A*02:438	Unconfirmed	A*02:487	Unconfirmed	A*02:537	Unconfirmed	A*02:587	Unconfirmed
A*02:439N	Unconfirmed	A*02:488	Unconfirmed	A*02:538	Unconfirmed	A*02:588	Unconfirmed
A*02:440Q	Unconfirmed	A*02:489	Confirmed	A*02:539	Unconfirmed	A*02:589	Unconfirmed
A*02:441	Unconfirmed	A*02:490N	Unconfirmed	A*02:540N	Unconfirmed	A*02:590	Unconfirmed
A*02:442	Unconfirmed	A*02:491	Unconfirmed	A*02:541	Confirmed	A*02:591	Confirmed
A*02:443	Unconfirmed	A*02:492	Unconfirmed	A*02:542	Confirmed	A*02:592	Unconfirmed
A*02:444	Unconfirmed	A*02:493	Unconfirmed	A*02:543	Unconfirmed	A*02:593	Unconfirmed
A*02:445	Unconfirmed	A*02:494	Unconfirmed	A*02:544	Unconfirmed	A*02:594	Unconfirmed
A*02:446	Unconfirmed	A*02:495	Unconfirmed	A*02:545	Unconfirmed	A*02:595	Unconfirmed
A*02:447	Unconfirmed	A*02:496	Unconfirmed	A*02:546	Unconfirmed	A*02:596	Unconfirmed
A*02:448	Unconfirmed	A*02:497	Unconfirmed	A*02:547	Unconfirmed	A*02:597	Confirmed
A*02:449	Unconfirmed	A*02:498	Unconfirmed	A*02:548	Unconfirmed	A*02:598	Unconfirmed
A*02:450	Unconfirmed	A*02:499	Unconfirmed	A*02:549	Unconfirmed	A*02:599	Unconfirmed
A*02:451	Unconfirmed	A*02:500Q	Unconfirmed	A*02:550	Unconfirmed	A*02:600	Unconfirmed
A*02:452	Unconfirmed	A*02:501N	Unconfirmed	A*02:551	Unconfirmed	A*02:601	Unconfirmed
A*02:453	Unconfirmed	A*02:502	Unconfirmed	A*02:552	Unconfirmed	A*02:602	Unconfirmed
A*02:454	Unconfirmed	A*02:503	Unconfirmed	A*02:553	Confirmed	A*02:603	Unconfirmed

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.: **7D9**

Lot-specific information

Allele	Status ¹
A*02:604	Unconfirmed
A*02:605Q	Unconfirmed
A*02:606	Unconfirmed
A*02:607	Unconfirmed
A*02:608N	Unconfirmed
A*02:609	Unconfirmed
A*02:610	Unconfirmed

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2016-January-19, release 3.23.0, 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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“Instructions for Use” (IFU)

Lot No.: 7D9

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
1 ¹¹	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, 02:01:92-02:01:117, 02:01:119-02:06:22, 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, 02:113:01N-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, 02:458-02:459, 02:461-02:473, 02:475-02:476N, 02:480-02:489, 02:491-02:493, 02:495-02:502, 02:504-02:512, 02:515, 02:516N ^w , 02:517-02:539, 02:542-02:543, 02:545, 02:547-02:553, 02:555-02:565, 02:568-02:570, 02:572-02:574, 02:576-02:578, 02:581-02:582, 02:585, 02:587-02:588, 02:590-02:593, 02:596-02:603, 02:605Q ^w , 02:606-02:610	*01:104, 01:134, 03:09, 03:89:01-03:89:02, 03:108, 03:172, 03:198, 11:06, 11:18, 25:11, 26:03:01, 26:06, 26:21, 26:30, 26:36, 26:78, 26:92, 26:111, 29:19, 29:74, 30:13, 30:16, 30:44, 30:46, 32:08, 33:24, 68:05, 68:15, 68:20, 74:06, 74:21, 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, 02:01:83-02:01:100, 02:01:102-02:01:105, 02:01:107-02:01:119, 02:01:121-02:04, 02:07:01-02:07:08, 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,	*01:134, 03:09, 03:89:01-03:89:02, 03:108, 03:172, 03:198, 74:06, 74:21

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

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Lot No.: 7D9

Lot-specific information

			02:88N-02:89, 02:92-02:97:02, 02:101:01-02:105, 02:107, 02:109-02:111, 02:113:01N-02:121, 02:123, 02:125N, 02:130-02:135, 02:138-02:141, 02:145, 02:147-02:153:02, 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, 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, 02:338-02:343, 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, 02:388-02:397, 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, 02:455-02:456, 02:458-02:464, 02:466-02:469, 02:477-02:483, 02:485-02:488, 02:491-02:492, 02:498-02:502, 02:504-02:505, 02:508-02:513, 02:515-02:526, 02:528-02:531, 02:533, 02:535-02:545, 02:547-02:548, 02:551-02:557, 02:559-02:570, 02:573, 02:575-02:576, 02:578, 02:581-02:583, 02:585-02:588, 02:590, 02:594-02:601, 02:603-02:610
3⁶	175 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:03:08, 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, 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, 02:153:01-02:155, 02:157:01-02:189, 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-02:474, 02:476N-02:511, 02:513-02:525N, 02:527-02:557, 02:559-02:562, 02:564-02:610
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, 02:01:83-02:01:112, 02:01:114-02:01:121, 02:03:01-02:04, 02:06:01:01-02:06:11, 02:06:13-02:06:19, 02:06:21-02:07:08, 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, 02:64:01-02:77, 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, 02:156-02:168, 02:170-02:171:02,

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

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Lot No.: 7D9

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			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, 02:434-02:481, 02:483, 02:485-02:488, 02:490N-02:491, 02:493-02:494, 02:497- 02:503, 02:505-02:506N, 02:508-02:516N, 02:518-02:526, 02:528-02:530, 02:533-02:545, 02:547-02:570, 02:573-02:576, 02:578-02:590, 02:592, 02:594-02:600, 02:602, 02:604-02:610
5 ⁵	125 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:01:121, 02:04, 02:06:01:01-02:07:08, 02:09-02:11:09, 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, 02:64:01-02:64:02, 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, 02:153:01-02:153:02, 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, 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, 02:448-02:462, 02:464-02:465, 02:467-02:479, 02:481-02:483, 02:485-02:488, 02:490N- 02:491, 02:493-02:494, 02:497-02:502, 02:504, 02:506N, 02:508-02:516N, 02:518-02:526, 02:528, 02:530, 02:533-02:542, 02:545, 02:547-02:556, 02:558-02:567, 02:569-02:571, 02:573-02:576, 02:578-02:581, 02:583-02:590, 02:592, 02:594, 02:596-02:600, 02:602-02:610
			*03:17:01, 03:171, 23:01:01-23:01:18, 23:04- 23:65, 23:67-23:69, 24:02:16, 24:13:01- 24:13:02, 24:18, 24:24, 24:94, 24:188, 24:207, 24:228, 24:315, 30:61, 30:74, 31:67-31:68, 32:28, 32:66, 33:32:01, 68:08:01- 68:08:02, 68:63, 69:01- 69:02, B*51:136, C*07:204, C*07:482
6 ^{5,6}	75 bp	800 bp	*02:02:01:01-02:03:08, 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, 02:463, *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, 68:64-68:107, 68:109- 68:110, 68:112:01- 68:112:02, 68:114, 68:116- 68:128, 68:130-68:133, 68:135-68:136, 68:138- 68:142N

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7 ⁷	170 bp 210 bp	1070 bp	*02:02:01:01-02:02:03, 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, 02:484, 02:489, 02:492, 02:495-02:496, 02:507, 02:517, 02:531-02:532, 02:542, 02:546, 02:572, 02:577, 02:591, 02:593, 02:601 *02:540N	
8	415 bp 505 bp	1070 bp	*02:02:01:01-02:02:02, 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, 02:484, 02:489, 02:492, 02:495-02:496, 02:507, 02:517, 02:531-02:532, 02:546, 02:572, 02:577, 02:591, 02:593, 02:601 *02:32N	
9 ⁵	105 bp	1070 bp	*02:03:01, 02:03:02 ^w , 02:03:03-02:03:08, 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, 02:463, 02:466, 02:480, 02:505, 02:529, 02:544, 02:557, 02:568, 02:595	*24:99, 26:10
10 ⁵	115 bp	800 bp	*02:03:01, 02:03:02 ^w , 02:03:03-02:03:08, 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, 02:463, 02:466, 02:480, 02:489, 02:505, 02:529, 02:541, 02:544, 02:557, 02:568, 02:589, 02:592, 02:595	*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 ^{7,8,9}	135 bp 225 bp 350 bp	1070 bp	*02:506N *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, 24:309, 29:19, 29:48, 29:74, 32:08, 33:24, 68:05, 68:20, 74:06, 74:21
12	195 bp 235 bp	1070 bp	*02:85 *02:05:01-02:06:22, 02:08, 02:10, 02:14, 02:21, 02:28, 02:41, 02:44, 02:51, 02:54, 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,	*11:06, 11:18, 26:03:01, 26:06, 26:21, 26:30, 26:78, 26:92, 26:111, 68:05, 68:15, 68:20

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13 ⁸	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, 02:484, 02:489, 02:495, 02:507, 02:527, 02:532, 02:546, 02:572, 02:577, 02:593	*66:21, 68:135
14 ^{5,8}	95 bp 170 bp	800 bp	*02:91, 02:322 *02:07:01-02:07:08, 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, 02:474, 02:477- 02:478, 02:513, 02:541, 02:544, 02:566- 02:567, 02:575, 02:583, 02:586	
15 ^{5,8}	125 bp 265 bp 305 bp	800 bp	*02:21, 02:186, 02:587 *02:87, 02:112, 02:129, 02:136, 02:571 *02:96	*23:01:13, B*53:01:10
16 ⁵	110 bp	800 bp	*02:50, 02:73, 02:93, 02:122, 02:156, 02:172, 02:279, 02:594	*11:119:01-11:119:02, 11:209, 23:31, 23:45, 23:55, 24:15, 24:41, 24:51, 24:92, 24:235, 26:10, 32:28, 32:66, 68:02:01:01-68:02:12, 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, 68:110, 68:119:01- 68:119:02, 68:124-68:125, 68:128, 68:138, B*07:136:02, B*44:59:02, B*44:136, B*51:136, C*07:204, C*07:482, C*12:37
	155 bp		*02:09, 02:49	
17 ⁸	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, 02:604	*23:12, 24:28, 24:30, 24:42, 24:89, 24:309

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18¹⁰	175 bp	1070 bp	*02:11:01, 02:11:03-02:11:09, 02:29, 02:69, 02:128, 02:297-02:298, 02:308, 02:395N, 02:457, 02:490N, 02:494, 02:503, 02:514N, 02:579, 02:584, 02:589	
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, 02:543	*11:119:01-11:119:02, 11:209, 24:02:01:01-24:02:15, 24:02:17-24:02:41, 24:02:43-24:05, 24:07:01-24:11N, 24:14-24:15, 24:17, 24:19-24:20, 24:23, 24:25-24:53, 24:55-24:64, 24:66-24:86N, 24:88-24:90:02N, 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, 24:214-24:226:02, 24:229-24:277, 24:279-24:282, 24:284, 24:286-24:288, 24:290-24:298, 24:300-24:314, 24:316-24:326, 24:328-24:334, 33:19, 68:09, 68:26, 68:129, 68:134, 69:03
	165 bp		*02:283	
20⁸	135 bp 170 bp 260 bp 295 bp	1070 bp	*02:200 *02:229 *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	*11:209, 23:01:01-23:02, 23:05-23:42, 23:44-23:69, 24:02:01:01-24:02:41, 24:02:43-24:02:69, 24:02:71-24:02:96, 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, 24:220-24:282, 24:284-24:288, 24:290-24:298, 24:301-24:314, 24:316-24:334, 33:19, 68:26, 68:65, 68:115, 68:131

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23	140 bp 180 bp	800 bp	*02:31, 02:161, 02:360, 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, 24:293
24⁵	75 bp 110 bp 160 bp	1070 bp	*02:230, 02:459 *02:27, 02:393, 02:541, 02:589, 02:592 *02:233	*11:119:01-11:119:02, 24:59, 24:190, 24:210, 24:229, 24:285, C*07:204 , C*07:482 *24:219
25	135 bp 160 bp 190 bp	1070 bp	*02:16, 02:131, 02:226N, 02:487, 02:560 *02:283, 02:468:01N *02:384	*24:55, 24:315, B*07:136:02 *24:02:70
26⁵	125 bp 165 bp 260 bp	800 bp	*02:33 *02:52 *02:198	
27^{5,8}	95 bp 140 bp 175 bp 540 bp	1070 bp	*02:28, 02:155, 02:185, 02:601 *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, 02:304, 02:339, 02:407, 02:409, 02:449, 02:453, 02:527, 02:580, 02:582 *02:597 *02:28, 02:155, 02:185, 02:601	*30:13, 30:16, 30:44, 30:46 *03:123:01-03:123:02, 03:171, 11:16, 11:35, 11:57, 11:73, 11:158, 24:131, 24:138, 24:188, 24:218, 29:51, 29:73, 68:01:01-01- 68:11N, 68:13:01-68:48, 68:51-68:116, 68:118- 68:119:02, 68:121-68:128, 68:130, 68:132-68:142N *68:126
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	*11:199:02, 30:02:14, 34:02:04, 68:01:32
29	220 bp 300 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, 02:571 *02:180	*11:199:02 ^w , 23:01:13, 30:02:14 ^w
30	130 bp 160 bp 210 bp	800 bp	*02:163, 02:583 *02:43N, 02:104 *02:608N	
31^{5,6}	95 bp 220 bp	800 bp	*02:82N *02:45, 02:56:01-02:56:02, 02:78, 02:103, 02:169, 02:195	*23:08N *11:199:02
32	205 bp 240 bp	1070 bp	*02:176 *02:46-02:48, 02:70, 02:129, 02:479, 02:571	*23:01:13
33^{7,8}	230 bp 325 bp	800 bp	*02:165, 02:168, 02:400, 02:420-02:421 *02:19, 02:36-02:37, 02:54, 02:255, 02:417	
34^{5,6,9,13}	120 bp 170 bp	800 bp	*02:88N *02:34-02:35:02, 02:56:01-02:56:02, 02:62, 02:78, 02:103, 02:395N, 02:580	*11:199:02, 30:01:01- 30:01:11, 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,

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35 ⁵	110 bp	1070 bp	*02:40:01-02:40:02, 02:51, 02:130	*23:01:01-23:01:18, 23:02 ^w , 23:04-23:23, 23:25-23:33, 23:35-23:56, 23:58-23:65, 23:67-23:69, 24:24, 24:71, 24:315, 31:67-31:68, 32:28, 32:66, 33:32:01, 68:51 ^w
	155 bp		*02:77	
36 ⁵	85 bp 445 bp	1070 bp	*02:94N *02:24:01-02:24:02, 02:65, 02:135, 02:137, 02:152, 02:309, 02:507	*01:104, 01:134, 03:09, 03:89:01-03:89:02, 03:108, 03:172, 03:198, 11:06, 11:18, 25:11, 26:03:01, 26:06, 26:21, 26:30, 26:36, 26:78, 26:92, 26:111, 29:19, 29:48, 29:74, 30:13, 30:16, 30:44, 30:46, 32:08, 33:24, 74:06, 74:21, 80:01:01:01 ^w
37	145 bp	1070 bp	*02:38, 02:101:01-02:101:02, 02:154, 02:447, 02:543	*11:119:01-11:119:02, 23:10 ^w , 24:10:01-24:10:02, 24:46 ^w , 24:210, 24:300, 26:10, 68:61, 68:134
38 ⁵	125 bp	800 bp	*02:41, 02:80, 02:117, 02:289:01-02:289:02, 02:304, 02:454	
	225 bp		*02:351	
39 ^{5,6}	80 bp 170 bp 240 bp 265 bp 300 bp	1070 bp	*02:390 *02:18 *02:153:01-02:153:02, 02:293Q, 02:439N *02:159 *02:170, 02:364	
40 ^{5,8}	100 bp 220 bp 250 bp	1070 bp	*02:52, 02:67, 02:404, 02:423 *02:40:01-02:40:02, 02:51, 02:130, 02:500Q *02:153:01-02:153:02	*30:47 *29:22, 31:99, 33:22
41 ⁸	185 bp	1070 bp	*02:02:01:01-02:02:03, 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, 02:484, 02:489, 02:492, 02:495-02:496, 02:507, 02:517, 02:527, 02:531-02:532, 02:546, 02:572, 02:577, 02:591, 02:593, 02:601	*24:94, 24:138, 24:188, 24:228, 24:293, B*15:343 , C*05:125 , C*07:386 , 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, 02:580	*01:13, 01:17, 01:176, 01:194, 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,

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43¹²	180 bp 225 bp	800 bp	*02:71 *02:03:01-02:03:08, 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, 02:463, 02:466, 02:480, 02:505, 02:529, 02:544, 02:557, 02:568, 02:582, 02:595	*26:22, 66:09, 68:83, 68:105, C*02:74
44⁵	125 bp 155 bp 200 bp	800 bp	*02:203 *02:59, 02:513, 02:602 *02:222N, 02:342	
45⁵	105 bp 160 bp 185 bp 270 bp	1070 bp	*02:60:01-02:60:02, 02:254, 02:594 *02:391 *02:19, 02:39, 02:44, 02:79:01-02:79:02, 02:86, 02:400, 02:408, 02:436 *02:501N	*01:20, 01:66, 01:130, 03:95, 24:14, 24:93, 24:324
46^{7,8}	135 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 *02:35:01-02:35:03, 02:48, 02:78, 02:90, 02:331, 02:580 *02:207	*11:199:02, 34:02:04, 68:01:32
48⁵	110 bp	1070 bp	*02:64:01-02:64:02, 02:177-02:178, 02:412	
49⁵	115 bp	1070 bp	*02:27, 02:267, 02:408, 02:590	*11:119:01-11:119:02, 24:59, 24:190, 24:210, 24:229, 24:285, C*07:204, C*07:482
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, 02:527, 02:582	*01:104, 01:134, 03:09, 03:89:01-03:89:02, 03:108, 03:172, 03:198, 11:06, 11:18, 29:19, 29:48, 29:74, 32:08, 33:24, 68:05, 68:20, 74:06, 74:21, 80:01:01:01 ^w
52	175 bp	800 bp	*02:76:01-02:76:02, 02:319, 02:434	*24:02:76, 24:310:02, 30:22
53	215 bp	1070 bp	*02:14, 02:17:01-02:17:03, 02:57-02:58, 02:108, 02:110, 02:300, 02:303, 02:490N, 02:516N	*03:75, 23:01:01-23:01:15, 23:01:17-23:01:18, 23:03:01-23:13, 23:14:02- 23:33, 23:35-23:65, 23:67- 23:69, 24:13:01, 24:18, 24:24, 24:94, 24:188,

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				24:207, 24:228, 29:07, 30:52, 30:80, 31:29, 31:60N, C*06:04:02
54 ^{7,8}	240 bp 310 bp 350 bp	800 bp	*02:189-02:190, 02:438 *02:228 *02:74:01-02:74:02	
55 ^{5,6}	85 bp 160 bp 205 bp	1070 bp	*02:343 *02:486 *02:01:83, 02:01:105, 02:01:107, 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, 02:541, 02:547, 02:589, 02:592, 02:598 *02:313	*03:95, 29:22, 31:99, 33:22, C*02:74
56	265 bp 150 bp 275 bp	1070 bp	*02:175, 02:181 *02:53N, 02:81, 02:124	
57 ^{5,7}	105 bp 145 bp	1070 bp	*02:42, 02:310, 02:528 *02:160, 02:175	
58	255 bp	800 bp	*02:11:01-02:11:09, 02:35:01-02:35:03, 02:48, 02:69, 02:78, 02:90, 02:128, 02:297-02:298, 02:308, 02:331, 02:457, 02:490N, 02:494, 02:503, 02:514N, 02:579-02:580, 02:584, 02:589	*11:199:02, 34:02:04, 68:01:32
59 ⁸	145 bp 190 bp 210 bp	800 bp	*02:97:01-02:97:02 *02:305N *02:608N	
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, 26:06, 26:21, 26:30, 26:36, 26:78, 26:92, 26:111, 29:19, 29:48, 29:74, 32:08, 33:24, 68:05, 68:15, 68:20, 74:06, 74:21
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, 29:73, 68:01:01-01-68:11N, 68:13:01-68:43:02, 68:45- 68:48, 68:51-68:82, 68:84- 68:104:02, 68:106-68:116, 68:118-68:128, 68:130, 68:132-68:142N
62	180 bp	800 bp	*02:69, 02:179	*68:01:01-01-68:32, 68:34- 68:95, 68:97-68:142N
63 ⁵	95 bp 155 bp 210 bp	800 bp	*02:259, 02:524 *02:105, 02:301N *02:490N, 02:516N, 02:540N, 02:605Q	*03:51, 23:60, 30:37, 32:46 *31:60N
64 ⁵	125 bp 180 bp	1070 bp	*02:106, 02:145 *02:164, 02:221, 02:392, 02:593	*24:72 *01:44, 01:129, 03:44:01, 11:196, 11:201, 23:41, 24:245, 24:286, 29:15, 31:78
	260 bp		*02:187	

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65⁸	150 bp 185 bp 250 bp	1070 bp	*02:160, 02:251, 02:391, 02:486 *02:107 *02:202, 02:437, 02:440Q, 02:500Q, 02:581	
66	170 bp 200 bp	800 bp	*02:109, 02:434 *02:30, 02:547, 02:598	
67⁵	100 bp 140 bp 180 bp 300 bp	800 bp	*02:91, 02:177, 02:322 *02:111, 02:407, 02:449, 02:460 *02:330 *02:350N	
68	210 bp 255 bp	1070 bp	*02:113:01N-02:113:02N, 02:321N *02:158, 02:184	
69	170 bp 225 bp 335 bp	1070 bp	*02:114, 02:246, 02:279, 02:527, 02:582 *02:260 *02:166	
70⁵	125 bp 180 bp 285 bp	800 bp	*02:115 *02:133, 02:367, 02:487 *02:53N, 02:192, 02:269, 02:433	
71⁸	130 bp 260 bp	800 bp	*02:196, 02:465, 02:553 *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	
73^{5,7}	80 bp 120 bp 200 bp 250 bp	800 bp	*02:263 *02:380, 02:528, 02:553 *02:119 *02:158	*03:52, 31:19
74	175 bp 250 bp	800 bp	*02:120 *02:187, 02:223N	
75^{5,8}	100 bp 165 bp 200 bp	1070 bp	*02:373N *02:166 *02:121, 02:384, 02:425, 02:517	*68:49N *23:47, 24:234, 68:14, 68:81, C*12:37^w
76⁵	115 bp 190 bp 225 bp	800 bp	*02:68 *02:342, 02:392, 02:593 *02:50, 02:122, 02:143, 02:225N, 02:556	*24:245
77⁵	80 bp 115 bp	800 bp	*02:123, 02:295, 02:344 *02:162, 02:525N	
78⁵	80 bp 130 bp 240 bp	1070 bp	*02:01:14Q, 02:193 *02:213, 02:495 *02:124	
79^{5,8}	110 bp 200 bp 225 bp 270 bp	1070 bp	*02:476N, 02:525N *02:227N *02:125N, 02:217:02, 02:419 *02:53N, 02:184, 02:192, 02:433	
80⁵	85 bp 135 bp 230 bp	1070 bp	*02:01:14Q, 02:214 *02:194, 02:558 *02:126	
81^{5,7}	110 bp 235 bp	800 bp	*02:183 *02:165, 02:400, 02:420-02:421	

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	310 bp		*02:127, 02:167, 02:299, 02:477	
82⁷	130 bp 225 bp 255 bp 295 bp 390 bp	1070 bp	*02:131 *02:481 *02:291 *02:199 *02:514N	
83⁵	100 bp 125 bp 240 bp 265 bp	800 bp	*02:132 *02:215, 02:429, 02:467 *02:237, 02:440Q, 02:500Q *02:313	*03:95
84⁷	180 bp 205 bp 250 bp	800 bp	*02:133, 02:164, 02:487 *02:315 *02:250N, 02:348, 02:394	*01:44, 03:44:01
85	170 bp 215 bp 260 bp	800 bp	*02:314N, 02:376, 02:542 *02:481, 02:605Q *02:134	*03:197N, 32:48N
86⁷	180 bp 255 bp 310 bp	800 bp	*02:135, 02:309, 02:454 *02:174 *02:228	
87^{5,7}	110 bp 150 bp 210 bp 260 bp	800 bp	*02:380 *02:138, 02:181 *02:284N *02:394	*03:52, 31:19
88⁷	135 bp 250 bp	800 bp	*02:188, 02:235 *02:139, 02:366N	B*15:67, B*15:343, B*35:110, B*58:77, C*07:386, C*12:94, C*14:48
89^{5,7,8}	120 bp 155 bp 200 bp	800 bp	*02:140, 02:182 *02:324, 02:426, 02:468:01N-02:468:02N *02:227N	*24:133, 26:99, 31:48, 33:15 *24:02:70
90⁵	100 bp 130 bp 190 bp 255 bp	800 bp	*02:72, 02:206, 02:275, 02:377 *02:161 *02:141 *02:01:02, 02:06:05, 02:06:09, 02:50, 02:76:02, 02:122, 02:591	*01:134, 03:09, 03:89:02, 03:108, 03:172, 03:198, 11:06, 11:18, 26:03:01, 26:06, 26:21, 26:30, 26:78, 26:92, 29:19, 29:48, 30:13, 30:16, 30:44, 30:46, 33:24, 68:05, 68:15, 68:20, 74:06, 74:21

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91⁵	115 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, 02:594	*11:119:01-11:119:02, 11:209, 23:31, 23:45, 23:55, 24:15, 24:41, 24:51, 24:92, 24:235, 24:261, 26:10, 32:28, 32:66, 68:02:01:01-68:02:12, 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, 68:76:01-68:78, 68:80-68:82, 68:86, 68:92, 68:97, 68:110, 68:119:01-68:119:02, 68:124-68:125, 68:128, 68:138, B*07:136:02, B*44:59:02, B*44:136, B*51:136, C*07:204, C*07:482, C*12:37
92	180 bp 260 bp	1070 bp	*02:173, 02:496 *02:146, 02:366N	
93⁷	130 bp 245 bp	800 bp	*02:163, 02:583 *02:147, 02:339, 02:348	*03:170, 23:52, 24:73, 24:157, B*15:173, B*18:63, B*39:90
	295 bp		*02:157:01-02:157:02, 02:473	
94^{5,7}	110 bp 150 bp 175 bp 210 bp 360 bp	800 bp	*02:325, 02:377 *02:360 *02:597 *02:150 *02:197, 02:478, 02:494	
95	135 bp	800 bp	*02:52, 02:105, 02:147, 02:151, 02:188, 02:339	*68:06, B*15:343, B*58:77, C*07:386, C*12:94, C*14:48
96¹⁴	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 distributed as outlined in the

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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 13, 15 to 17, 19, 22 to 25, 27 to 29, 31, 32, 34 to 37, 40 to 43, 45, 47, 49, 51 to 53, 55, 58, 60 to 64, 73, 75, 76, 83 to 85, 87, 89 to 91, 93 and 95. In addition, a few HLA-B and HLA-C alleles will be amplified by primer mixes 5, 10, 15, 16, 24, 25, 34, 41, 43, 49, 53, 55, 75, 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, 11, 33, 42, 46, 54, 57, 61, 73, 81, 82, 84, 86, 87, 88, 89, 93 and 94 have a tendency to giving rise to primer oligomer formation, most pronounced in primer mix 46.

⁸Primer mixes 11, 13, 14, 15, 17, 20, 27, 33, 40, 41, 42, 46, 54, 59, 60, 61, 65, 71, 75, 79 and 89 may have tendencies of unspecific amplifications, most pronounced in primer mix 27.

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*02:07:01-02:07:08 alleles.

¹²In primer mix 43 the positive control band may be weaker than for other HLA-A*02 primer mixes.

¹³Primer mix 34 may give rise to a lower yield of HLA-specific PCR product than the other HLA-A*02 high resolution primer mixes for the A*30 alleles.

¹⁴Primer mix 96 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 430 base pairs.

'w', might be weakly amplified.

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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	170	415	105	115	135	195
							210	505			225	235
											350	
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'	369 5'-TAg 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'		453 5'-AAA 3'		402 5'-CTg 3'				648 5'-CAA 3'	362 5'-gAg 3'
							409 5'-ggA 3'				737 5'-ggA 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'-CAA 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	140	75
		170	265	155	360		165	170	255		180	110
			305					260				160
								295				
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'	185 5'-CAA 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'			194 5'-Cgg 3'	
											205 5'-ggg 3'	
											368 5'-gTT 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'	413 5'-ggC 3'	880 5'-gAA 3'		506 5'-TgT 3'	524 5'-CAC 3'
			302 5'-ggT 3'			290 5'-CAA 3'		505 5'-gTA 3'				527 5'-CCg 3'
			343 5'-A 3'					538 5'-CCg 3'				571 5'-CCg 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

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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	160	165	140		300	160	220	240	325	170	155	445
		190	260	175		210						
			540									
Length of int. pos. control ¹	1070	800	1070	800	1070	800	800	1070	800	800	1070	1070
5'-primer(s) ²	453 5'-AAA 3'	2 nd I 5'-CCA 3'	160 5'-ACT 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'
			238 5'-AgA 3'			666 5'-gAA 3'	564 5'-TgA 3'			420 5'-TAg 3'		
			391 5'-ACg 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'
	573 5'-AgT 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'	
	575 5'-ggT 3'					835 5'-CTA 3'				497 5'-Tgg 3'		
	604 5'-CgC 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.	145	125	80	100	185	225	180	125	105	135	165	110
PCR product		225	170	220			225	155	160	205	205	
			240	250				200	185		255	
			265						270		305	
			300									
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'		652 5'-CTg 3'		431 5'-CgC 3'
		414 5'-CAA 3'						451 5'-TgT 3'				
								463 5'-TgT 3'				
3'-primer(s) ³	559 5'-CCT 3'	281 5'-AgC 3'	394 5'-gCT 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'	485 5'-CCT 3'	418 5'-gTg 3'	831 5'-TCC 3'	282 5'-gAC 3'	539 5'-TCC 3'	616 5'-CgT 3'	475 5'-Cgg 3'	746 5'-ggA 3'	242 5'-CCA 3'	
			553 5'-CTA 3'	524 5'-CAC 3'					497 5'-TgA 3'		290 5'-CAg 3'	
			564 5'-ACC 3'	524 5'-CAC 3'					585 5'-AgC 3'		340 5'-ggT 3'	
			565 5'-CAT 3'	545 5'-AgT 3'								
			578 5'-Tgg 3'	565 5'-CAT 3'								
			613 5'-gCA 3'									
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

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Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec. PCR product	115	145	410	175	215	240	85	150	105	255	145	345
						310	160	275	145		190	
						350	205				210	
							265					
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 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'
				115 5'-ggA 3'	375 5'-TgA 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'-gTA 3'	355 5'-gAT 3'
						497 5'-Tgg 3'	400 5'-gAA 3'	187 5'-gTA 3'	145 5'-CAT 3'		768 5'-gTg 3'	
						557 5'-TgT 3'	476 5'-CCA 3'	302 5'-ggC 3'	184 5'-gCC 3'		814 5'-CA. 3'	
						595 5'-CCg 3'	517 5'-CgC 3'	324 5'-TAC 3'	187 5'-gTA 3'		835 5'-CTA 3'	
						595 5'-CCT 3'	577 5'-gCA 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. PCR product	185	180	95	125	150	170	100	210	170	125	130	110
			155	180	185	200	140	255	225	180	260	230
			210	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'	369 5'-TAg 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 5'-CCA 3'
			375 5'-TgA 3'	478 5'-CgA 3'	355 5'-CCg 3'	112 5'-CCT 3'	386 5'-gTT 3'		2 nd 5'-CCA 3'			
			375 5'-Tgg 3'	484 5'-ACg 3'		115 5'-ggA 3'	397 5'-gCC 3'					
			420 5'-TAT 3'	484 5'-ACT 3'			406 5'-gCA 3'					
			427 5'-A.g 3'	530 5'-ggT 3'			431 5'-CgC 3'					
			485 5'-CAC 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'	164 5'-gCC 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'	172 5'-CAT 3'	475 5'-CgA 3'
					456 5'-TCg 3'		497 5'-Tgg 3'	252 5'-TCT 3'	578 5'-TgT 3'	221 5'-ACC 3'	298 5'-CAg 3'	506 5'-TgC 3'
					475 5'-Cgg 3'			289 5'-AgC 3'		319 5'-gCT 3'		
					476 5'-CCA 3'			299 5'-CCT 3'		326 5'-TgC 3'		
					559 5'-CTC 3'							
					562 5'-gCg 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

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

Lot No.: 7D9

Lot-specific information

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	80	175	100	115	80	80	110	85	110	130	100	180
PCR product	120	250	165	190	115	130	200	135	235	225	125	205
	200		200	225		240	225	230	310	255	240	250
	250						270			295	265	
										390		
Length of int. pos. control ¹	800	800	1070	800	800	1070	1070	1070	800	1070	800	800
5'-primer(s) ²	78 5'-TCT 3'	104 5'-ATA 3'	453 5'-AAA 3'	48 5'-gCT 3'	78 5'-TCT 3'	364 5'-ggg 3'	78 5'-TCT 3'	359 5'-CCg 3'	2 nd I 5'-CCA 3'	249 5'-TAG 3'	355 5'-CCg 3'	78 5'-TCT 3'
	488 5'-ggT 3'	395 5'-gCA 3'		441 5'-TAA 3'	385 5'-ggA 3'	417 5'-CAC 3'	453 5'-AAA 3'	404 5'-CCC 3'		341 5'-ggg 3'	808 5'-CgA 3'	415 5'-ACA 3'
	520 5'-CgT 3'	415 5'-ACT 3'		463 5'-TgT 3'		666 5'-gAA 3'		666 5'-gAA 3'		666 5'-gAA 3'		484 5'-ACT 3'
				478 5'-CgA 3'								
				542 5'-gAA 3'								
3'-primer(s) ³	145 5'-CAT 3'	240 5'-ggA 3'	514 5'-CTA 3'	106 5'-CAT 3'	119 5'-ggT 3'	453 5'-TCT 3'	153 5'-ACT 3'	453 5'-TCT 3'	353 5'-CgA 3'	355 5'-gAC 3'	434 5'-CCC 3'	221 5'-ACC 3'
	164 5'-gCC 3'	616 5'-CgT 3'	578 5'-TgT 3'	616 5'-CgT 3'	121 5'-gCA 3'	705 5'-TCT 3'	255 5'-Cgg 3'	705 5'-TCT 3'	482 5'-Tgg 3'	755 5'-CCA 3'	442 5'-gAC 3'	241 5'-CgA 3'
	239 5'-gAT 3'		604 5'-CgC 3'		153 5'-ACT 3'	866 5'-AAA 3'	260 5'-T.T 3'	853 5'-CAT 3'	553 5'-CTT 3'	850 5'-ATT 3'	555 5'-CCA 3'	284 5'-..g 3'
	289 5'-AgC 3'		616 5'-CgC 3'		453 5'-TCT 3'		299 5'-CCT 3'		559 5'-CTT 3'	880 5'-gAA 3'	562 5'-gCg 3'	296 5'-CTT 3'
	559 5'-CgT 3'						319 5'-gCT 3'				577 5'-gCA 3'	616 5'-CgT 3'
							513 5'-TCT 3'				868 5'-CAA 3'	
							610 5'-CTA 3'					
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

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

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Lot No.: **7D9**

Lot-specific information

Well No.	85	86	87	88	89	90	91	92	93	94	95
Length of spec.	170	180	110	135	120	100	115	180	130	110	135
PCR product	215	255	150	250	155	130		260	245	150	
	260	310	210		200	190			295	175	
			260			255				210	
										360	
Length of int.	800	800	800	800	800	800	800	1070	800	800	800
pos. control ¹											
5'-primer(s) ²	375 5'-Tgg 3'	2 nd I 5'-CCA 3'	78 5'-TCT 3'	78 5'-TCT 3'	453 5'-AAA 3'	78 5'-TCC 3'	379 5'-ACC 3'	78 5'-TCT 3'	364 5'-ggT 3'	124 5'-gCA 3'	412 5'-ATg 3'
	409 5'-ggA 3'		392 5'-CTA 3'	419 5'-gTC 3'	652 5'-CTg 3'	143 5'-CgT 3'	379 5'-ACT 3'		364 5'-ggC 3'	160 5'-ACT 3'	
	411 5'-TAg 3'		488 5'-ggT 3'			205 5'-ggg 3'	385 5'-ggC 3'		409 5'-ggC 3'	185 5'-CAA 3'	
	666 5'-gAA 3'					229 5'-TAC 3'	385 5'-ggA 3'		415 5'-ACA 3'	223 5'-Cgg 3'	
						235 5'-AgA 3'			529 5'-TgA 3'	229 5'-TAC 3'	
						244 5'-CgC 3'				2 nd I 5'-CCA 3'	
3'-primer(s) ³	538 5'-CAA 3'	423 5'-TAA 3'	187 5'-gTg 3'	175 5'-CCA 3'	542 5'-CTg 3'	292 5'-gTg 3'	453 5'-TCT 3'	218 5'-gCA 3'	616 5'-CgT 3'	292 5'-gTg 3'	506 5'-TgT 3'
	801 5'-CAC 3'	502 5'-CTg 3'	193 5'-Cgg 3'	277 5'-ggT 3'	572 5'-gCT 3'			295 5'-TCA 3'		605 5'-gCA 3'	
	850 5'-ATT 3'	557 5'-TgT 3'	296 5'-CTT 3'	295 5'-TCA 3'	573 5'-AgT 3'			299 5'-TCg 3'			
	884 5'-ggA 3'		559 5'-CgT 3'	506 5'-TgT 3'	610 5'-CTA 3'						
					727 5'-CCA 3'						
					763 5'-CAT 3'						
Well No.	85	86	87	88	89	90	91	92	93	94	95

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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“Instructions for Use” (IFU)

Lot No.: 7D9

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	
				Prod. No.:	201438701	201203302	201206603	201190204	201557805	201190206	201549107	201190208	201190209	201190210	201549111	201190212	201318013	201190214	201549115	201438716
	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	-	-	-	-	-	-	-	-	-	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.: 7D9

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	
				Prod. No.:	201190217	201318018	201206619	201438720	201666321	201190222	201438723	201328224	201549125	201666326	201666327	201190228	201190229	201666330	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 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

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

Lot No.: 7D9

Lot-specific information

CELL LINE VALIDATION SHEET																					
HLA-A*02 SSP subtyping kit ²																					
				Prod. No.:	Well																
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
	IHWC cell line ¹	A*	A*		201557833	201318034	201328235	201190236	201438737	201549138	201438739	201438740	201190241	201190242	201190243	201328244	201438745	201666346	201206647	201190248	
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.: 7D9

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	
				Prod. No.:	201549149	201190250	201190251	201549152	201549153	201438754	201666355	201190256	201557857	201190258	201666359	201190260	201190261	201190262	201666363	201438764
	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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Lot No.: **7D9**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-A*02 SSP subtyping kit ²																				
				Well																
				65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
				Prod. No.:	201549165	201549166	201557867	201549168	201206669	201328270	201549171	201190272	201557873	201206674	201666375	201438776	201549177	201549178	201549179	201549180
	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 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.: 7D9

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	
				Prod. No.:	201438781	201549182	201438783	201549184	201666385	201438786	201549187	201328288	201549189	201666390	201206691	201328292	201666393	201666394	201190295
	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 CTV3953540	*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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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.: **7D9**

Lot-specific information

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

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

No DNAs carrying the alleles to be amplified by primer solutions 15, 20, 21, 24, 26, 29, 30, 32, 38, 40, 44, 46 to 50, 52, 54, 56, 57, 59, 63 to 89 and 92 to 95 were available.

The specificities of the primers in primer solutions 15, 20, 26, 30, 32, 38, 40, 47, 49, 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, 46, 54, 59, 68, 70, 71, 75, 79, 81 and 89 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

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

In primer solution 50 neither the 5'-primer nor the 3'-primer 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, 47, 55 to 57, 65, 67, 69, 72, 73, 76 to 78, 80, 82 to 88, 92 and 94 one or more of the 3'-primers were not possible to test.

In primer solutions 5, 7, 11, 13, 14, 23, 27, 30, 34, 38, 41, 52, 53, 63, 66, 67, 73, 76 to 78, 80, 82 to 85, 87, 90, 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, 45 and 91 were tested by separately adding either one or two 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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101.412-24/04 – including *Taq* polymerase, IFU-01
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Lot-specific information

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