

101. 516-24/04 – including *Taq* polymerase, IFU-01
 101. 516-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **94N**

Lot-specific information
Olerup SSP® HLA-B*15

Product number:	101.516-24/04 – including <i>Taq</i> pol. 101.516-24u/04u – without <i>Taq</i> pol.
Lot number:	94N
Expiry date:	2015-January-01
Number of tests:	24 tests – Product No. 101.516-24/24u 4 tests – Product No. 101.516-04/04u
Number of wells per test:	96
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C

This Product Description is only valid for Lot No. 94N.

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP®
 HLA-B*15 LOT (23L)**

The HLA-B*15 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP®* HLA-B*15 lot was made (Lot No. 23L).

The HLA-B*15 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

The Lot-specific information for HLA-B*15 including and without *Taq* polymerase is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

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

Well	5'-primer	3'-primer	rationale
9	Exchanged	-	Exchanged 5'-primer, for improved allelic resolution.
10	-	Added	Improved yield of HLA-specific PCR product.
11	-	-	Exchanged positive control primer pair.

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49	-	Added	Improved yield of HLA-specific PCR product.
55	Added	Added	Primer pair added for the B*15:214 allele.
56	Added	Added	Primer pair added for the B*15:227 allele.
60	Added	Added	Primer pair added for the B*15:228 allele.
72	Added	Added	Primer pair added for the B*15:226N allele.
73	Added	Added	Primer pair added for the B*15:229 allele.
84	Added	-	Primer added for the B*15:211 allele.
88	-	-	Exchanged positive control primer pair.
89	-	Added	Primer added for the B*15:94N allele.
90	-	-	Exchanged positive control primer pair.
96	Added	Added	Primer pair added for the B*15:220 allele.

Change in revision R01 compared to R00:

1. Primer mix 96 does not amplify the B*15:123 and 15:220 alleles. This has been corrected in the specificity and amplification tables. Thus, this lot of the HLA-B*15 subtyping kit cannot distinguish the B*15:03:01-15:03:02 alleles and the B*15:220 allele.

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PRODUCT DESCRIPTION

HLA-B*15 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*15:01:01:01 to B*15:244 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	96

The 96 well cut PCR plate is marked with 'HLA-B*15' in silver/gray ink.

Well No. 1 is marked with the Lot No. '94N'.

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

The interpretation of HLA-B*15 SSP subtypings will be influenced by many other HLA-B alleles. In addition, primer mix 2 will amplify the C*07:02:30 and C*08:16:02 alleles, primer mix 3 will amplify the A*26:68, A*68:56, C*02:56, C*06:20 and C*12:50, primer mix 7 will amplify the C*07:46, primer mix 22 will amplify the C*03:81 and C*15:15, primer mix 26 will amplify the C*07:186, primer mix 27 will amplify the C*03:87, C*05:27 and C*05:39, primer mix 34 will amplify the C*07:68, C*07:140 and C*07:151, primer mix 37 will amplify the C*04:108 and C*15:08, primer mix 39 will amplify the C*07:213, primer mix 50 will amplify the A*68:56, primer mix 54 will amplify the C*12:36, primer mix 59 will amplify the C*06:33, primer mix 59 will amplify the C*06:33, primer mix 64 will amplify the C*03:48 and primer mix 73 will amplify the C*07:02:30 and C*15:24 alleles.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*15 alleles, i.e. **B*15:01 to B*15:244**, recognized by the HLA Nomenclature Committee in April 2012¹ will be amplified by the primers in the HLA-B*15 subtyping kit².

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Lot No.: 94N**Lot-specific information**

The HLA-B*15 kit enables separation of the confirmed HLA- B*15 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- B*15 alleles is listed below.

The HLA- B*15 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 B*15:120 and 15:228 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 60.

The B*15:166 and 15:193 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 86.

The B*15:169 and 15:225 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 87.

The B*15:208 and 15:230 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 70.

The HLA-B*15 subtyping kit cannot distinguish these silent mutations: the B*15:01:01:01, 15:01:03, 15:01:06-15:01:13, 15:01:15-15:01:16 and 15:01:18-15:01:28 alleles, the B*15:02:01-15:02:05 alleles, the B*15:03:01-15:03:02 alleles, the B*15:05:01-15:05:02 alleles, the B*15:07:01-15:07:02 alleles, the B*15:11:01-15:11:02 and 15:11:05 alleles, the B*15:13:01-15:13:02 alleles, the B*15:16:01-15:16:03 alleles, the B*15:17:01:01-15:17:02 alleles, the B*15:18:01 and 15:18:04 alleles, the B*15:25:01-15:25:03 alleles, the B*15:27:01-15:27:03 alleles, the B*15:38:01-15:38:02 alleles, the B*15:39:01-15:39:02 alleles, the B*15:47:01-15:47:02 alleles or the B*15:78:01-15:78:03 alleles.

¹HLA-B alleles listed on the IMGT/HLA web page 2012-April-12, release 3.8.0, www.ebi.ac.uk/imgt/hla.

²The B*15:180 and B*56:03 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution primer set.

³This lot of the HLA-B*15 subtyping kit cannot distinguish the B*15:03:01-15:03:02 alleles and the B*15:220 allele.

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ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
B*15:01:01:01	Confirmed	B*15:17:01:02	Unconfirmed	B*15:69	Confirmed	B*15:128	Unconfirmed	B*15:189	Unconfirmed
B*15:01:01:02N	Confirmed	B*15:17:02	Confirmed	B*15:70	Unconfirmed	B*15:129	Unconfirmed	B*15:190N	Confirmed
B*15:01:02	Confirmed	B*15:18:01	Confirmed	B*15:71	Confirmed	B*15:131	Unconfirmed	B*15:191	Unconfirmed
B*15:01:03	Unconfirmed	B*15:18:02	Confirmed	B*15:72	Unconfirmed	B*15:132	Confirmed	B*15:192	Unconfirmed
B*15:01:04	Unconfirmed	B*15:18:03	Unconfirmed	B*15:73	Confirmed	B*15:133	Unconfirmed	B*15:193	Unconfirmed
B*15:01:06	Confirmed	B*15:18:04	Confirmed	B*15:74	Confirmed	B*15:134	Unconfirmed	B*15:194	Unconfirmed
B*15:01:07	Unconfirmed	B*15:19	Unconfirmed	B*15:75	Confirmed	B*15:135	Confirmed	B*15:195	Unconfirmed
B*15:01:08	Unconfirmed	B*15:20	Confirmed	B*15:76	Unconfirmed	B*15:136	Unconfirmed	B*15:196	Unconfirmed
B*15:01:09	Confirmed	B*15:21	Confirmed	B*15:77	Unconfirmed	B*15:137	Unconfirmed	B*15:197	Unconfirmed
B*15:01:10	Confirmed	B*15:23	Confirmed	B*15:78:01	Confirmed	B*15:138	Unconfirmed	B*15:198	Unconfirmed
B*15:01:11	Confirmed	B*15:24	Confirmed	B*15:78:02	Unconfirmed	B*15:139	Unconfirmed	B*15:199	Unconfirmed
B*15:01:12	Unconfirmed	B*15:25:01	Confirmed	B*15:78:03	Unconfirmed	B*15:140	Unconfirmed	B*15:200	Unconfirmed
B*15:01:13	Confirmed	B*15:25:02	Confirmed	B*15:79N	Unconfirmed	B*15:141	Confirmed	B*15:201	Unconfirmed
B*15:01:14	Confirmed	B*15:25:03	Unconfirmed	B*15:80	Unconfirmed	B*15:142	Unconfirmed	B*15:202	Unconfirmed
B*15:01:15	Confirmed	B*15:26N	Unconfirmed	B*15:81	Unconfirmed	B*15:143	Unconfirmed	B*15:203	Unconfirmed
B*15:01:16	Confirmed	B*15:27:01	Confirmed	B*15:82	Unconfirmed	B*15:144	Unconfirmed	B*15:204	Confirmed
B*15:01:17	Unconfirmed	B*15:27:02	Unconfirmed	B*15:83	Unconfirmed	B*15:145	Unconfirmed	B*15:205	Unconfirmed
B*15:01:18	Unconfirmed	B*15:27:03	Unconfirmed	B*15:84	Unconfirmed	B*15:146	Confirmed	B*15:206	Unconfirmed
B*15:01:19	Unconfirmed	B*15:28	Unconfirmed	B*15:85	Unconfirmed	B*15:147	Confirmed	B*15:207	Confirmed
B*15:01:20	Unconfirmed	B*15:29	Confirmed	B*15:86	Confirmed	B*15:148	Unconfirmed	B*15:208	Confirmed
B*15:01:21	Unconfirmed	B*15:30	Confirmed	B*15:87	Unconfirmed	B*15:149N	Unconfirmed	B*15:209N	Unconfirmed
B*15:01:22	Unconfirmed	B*15:31	Confirmed	B*15:88	Unconfirmed	B*15:150	Confirmed	B*15:210	Unconfirmed
B*15:01:23	Unconfirmed	B*15:32	Confirmed	B*15:89	Confirmed	B*15:151	Unconfirmed	B*15:211	Confirmed
B*15:01:24	Unconfirmed	B*15:33	Confirmed	B*15:90	Unconfirmed	B*15:152	Unconfirmed	B*15:212	Unconfirmed
B*15:01:25	Unconfirmed	B*15:34	Confirmed	B*15:91	Unconfirmed	B*15:153	Confirmed	B*15:213	Unconfirmed
B*15:01:26	Unconfirmed	B*15:35	Confirmed	B*15:92	Unconfirmed	B*15:154	Confirmed	B*15:214	Unconfirmed
B*15:01:27	Unconfirmed	B*15:36	Unconfirmed	B*15:93	Unconfirmed	B*15:155	Confirmed	B*15:215	Unconfirmed
B*15:01:28	Unconfirmed	B*15:37	Confirmed	B*15:94N	Unconfirmed	B*15:156	Unconfirmed	B*15:216	Unconfirmed
B*15:02:01	Confirmed	B*15:38:01	Confirmed	B*15:95	Unconfirmed	B*15:157	Confirmed	B*15:217	Unconfirmed
B*15:02:02	Unconfirmed	B*15:38:02	Confirmed	B*15:96	Unconfirmed	B*15:158	Confirmed	B*15:218Q	Unconfirmed
B*15:02:03	Unconfirmed	B*15:39:01	Confirmed	B*15:97	Unconfirmed	B*15:159	Confirmed	B*15:219	Unconfirmed
B*15:02:04	Confirmed	B*15:39:02	Unconfirmed	B*15:98	Unconfirmed	B*15:160	Confirmed	B*15:220	Confirmed
B*15:02:05	Unconfirmed	B*15:40	Confirmed	B*15:99	Unconfirmed	B*15:161	Confirmed	B*15:221	Unconfirmed
B*15:03:01	Confirmed	B*15:42	Confirmed	B*15:101	Unconfirmed	B*15:162	Confirmed	B*15:222	Unconfirmed
B*15:03:02	Confirmed	B*15:43	Unconfirmed	B*15:102	Unconfirmed	B*15:163	Unconfirmed	B*15:223	Unconfirmed
B*15:03:03	Confirmed	B*15:44	Unconfirmed	B*15:103	Unconfirmed	B*15:164	Unconfirmed	B*15:224	Unconfirmed
B*15:04	Confirmed	B*15:45	Confirmed	B*15:104	Unconfirmed	B*15:165	Unconfirmed	B*15:225	Unconfirmed
B*15:05:01	Confirmed	B*15:46	Confirmed	B*15:105	Unconfirmed	B*15:166	Unconfirmed	B*15:226N	Unconfirmed
B*15:05:02	Confirmed	B*15:47:01	Confirmed	B*15:106	Confirmed	B*15:167	Confirmed	B*15:227	Unconfirmed
B*15:06	Confirmed	B*15:47:02	Unconfirmed	B*15:107	Unconfirmed	B*15:168	Unconfirmed	B*15:228	Confirmed
B*15:07:01	Confirmed	B*15:48	Unconfirmed	B*15:108	Unconfirmed	B*15:169	Unconfirmed	B*15:229	Confirmed
B*15:07:02	Unconfirmed	B*15:49	Unconfirmed	B*15:109	Unconfirmed	B*15:170	Confirmed	B*15:230	Unconfirmed
B*15:08	Confirmed	B*15:50	Confirmed	B*15:110	Unconfirmed	B*15:171	Confirmed	B*15:231	Unconfirmed
B*15:09	Confirmed	B*15:51	Unconfirmed	B*15:111N	Unconfirmed	B*15:172	Confirmed	B*15:232	Unconfirmed
B*15:10:01	Confirmed	B*15:52	Confirmed	B*15:112	Unconfirmed	B*15:173	Confirmed	B*15:233	Unconfirmed
B*15:10:02	Confirmed	B*15:53	Confirmed	B*15:113	Confirmed	B*15:174	Unconfirmed	B*15:234	Unconfirmed
B*15:11:01	Confirmed	B*15:54	Confirmed	B*15:114	Unconfirmed	B*15:175	Unconfirmed	B*15:235	Confirmed
B*15:11:02	Confirmed	B*15:55	Confirmed	B*15:115	Unconfirmed	B*15:176	Confirmed	B*15:236	Confirmed
B*15:11:03	Unconfirmed	B*15:56	Confirmed	B*15:116	Unconfirmed	B*15:177	Unconfirmed	B*15:237	Unconfirmed
B*15:11:04	Unconfirmed	B*15:57	Unconfirmed	B*15:117	Unconfirmed	B*15:178	Unconfirmed	B*15:238	Unconfirmed
B*15:11:05	Unconfirmed	B*15:58	Confirmed	B*15:118	Unconfirmed	B*15:179	Unconfirmed	B*15:239	Unconfirmed
B*15:12	Confirmed	B*15:60	Unconfirmed	B*15:119	Unconfirmed	B*15:180	Confirmed	B*15:240	Unconfirmed
B*15:13:01	Confirmed	B*15:61	Confirmed	B*15:120	Unconfirmed	B*15:181N	Confirmed	B*15:241	Unconfirmed
B*15:13:02	Unconfirmed	B*15:62	Confirmed	B*15:121	Unconfirmed	B*15:182N	Unconfirmed	B*15:242	Unconfirmed
B*15:14	Confirmed	B*15:63	Confirmed	B*15:122	Unconfirmed	B*15:183	Confirmed	B*15:243	Unconfirmed
B*15:15	Confirmed	B*15:64	Confirmed	B*15:123	Unconfirmed	B*15:184	Unconfirmed	B*15:244	Unconfirmed
B*15:16:01	Confirmed	B*15:65	Unconfirmed	B*15:124	Unconfirmed	B*15:185	Unconfirmed		
B*15:16:02	Unconfirmed	B*15:66	Unconfirmed	B*15:125	Confirmed	B*15:186	Unconfirmed		
B*15:16:03	Unconfirmed	B*15:67	Confirmed	B*15:126	Unconfirmed	B*15:187	Unconfirmed		
B*15:17:01:01	Confirmed	B*15:68	Confirmed	B*15:127	Unconfirmed	B*15:188	Unconfirmed		

¹ Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-April-12, release 3.8.0, www.ebi.ac.uk/imgt/hla.

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Lot-specific information
SPECIFICITY TABLE

HLA-B*15 SSP subtyping

Specificities and sizes of the PCR products of the 96 primer mixes used for HLA-B*15 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*15 alleles ³	Other amplified Class I alleles ⁴
1	395 bp	800 bp	*15:01:01:01-15:01:04, 15:01:06-15:07:02, 15:12-15:15, 15:19-15:20, 15:24-15:28, 15:30-15:36, 15:38:01-15:40, 15:42-15:43, 15:45-15:50, 15:53-15:55, 15:57-15:58, 15:60-15:65, 15:69-15:71, 15:73, 15:75, 15:77-15:79N, 15:81-15:89, 15:91-15:92, 15:94N, 15:96, 15:98, 15:102-15:107, 15:109-15:113, 15:116-15:118, 15:120-15:123, 15:125-15:129, 15:131-15:132, 15:135-15:138, 15:140-15:142, 15:144-15:147, 15:150-15:151, 15:154-15:160, 15:163-15:167, 15:169-15:175, 15:178-15:179, 15:181N-15:185, 15:187-15:188, 15:190N, 15:192-15:195, 15:199, 15:201-15:207, 15:210-15:214, 15:217-15:220, 15:223-15:225, 15:227-15:228, 15:231-15:235, 15:237, 15:239-15:242, 15:244	*40:12
2	290 bp	1070 bp	*15:01:01:01-15:01:03, 15:01:06-15:02:05, 15:03:03-15:08, 15:10:02-15:11:03, 15:11:05-15:15, 15:17:01:01-15:17:02, 15:19-15:21, 15:24-15:28, 15:30-15:36, 15:38:01-15:40, 15:42-15:46, 15:48, 15:50, 15:55-15:58, 15:60, 15:63, 15:65-15:66, 15:70-15:71, 15:73, 15:75-15:79N, 15:81-15:89, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:107, 15:109-15:113, 15:116-15:118, 15:120-15:122, 15:125-15:126, 15:128-15:129, 15:135-15:150, 15:152, 15:154-15:155, 15:157, 15:159-15:160, 15:162-15:172, 15:174-15:175, 15:177-15:179, 15:181N-15:185, 15:187-15:196,	*46:01:01-46:30, C*07:02:30, C*08:16:02

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			15:199, 15:201-15:209N, 15:211, 15:213-15:219, 15:223-15:225, 15:227-15:228, 15:230-15:234, 15:236-15:237, 15:239-15:241, 15:244	
3⁵	120 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:01:16, 15:01:17 ^w , 15:01:18-15:01:28, 15:04, 15:07:01-15:08, 15:11:01-15:12, 15:14-15:15, 15:19, 15:24, 15:26N-15:28, 15:30, 15:32, 15:34-15:35, 15:38:01-15:38:02, 15:43, 15:45-15:46, 15:50, 15:53-15:54, 15:56-15:58, 15:60, 15:63, 15:66, 15:68, 15:70-15:71, 15:73, 15:75-15:77, 15:79N, 15:81-15:82, 15:85, 15:87, 15:90, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:105, 15:109-15:111N, 15:113, 15:117-15:118, 15:120, 15:122, 15:125-15:126, 15:128-15:129, 15:135, 15:137, 15:140, 15:142-15:149N, 15:152, 15:154, 15:157, 15:159-15:160, 15:163-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, 15:180-15:184, 15:187, 15:189-15:193, 15:201-15:203, 15:205-15:207, 15:209N, 15:211-15:212, 15:215, 15:217, 15:225, 15:227-15:228, 15:231-15:234, 15:236, 15:239, 15:241, 15:244	*07:100, 13:31, 13:41, 18:19, 27:25, 35:14:01-35:14:02, 35:43-35:44, 35:62, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135, 35:163, 35:185, 39:36, 44:146, 45:05, 46:01:01-46:02, 46:04-46:05, 46:07N, 46:09-46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:27-46:30, 51:61, 52:21, 54:06, 55:21, 56:03, A*26:68, A*68:56, C*02:56, C*06:20, C*12:50
4	180 bp	800 bp	*15:01:01:02N	
5⁸	385 bp	1070 bp	*15:02:01-15:02:05, 15:08-15:11:05, 15:13:01-15:13:02, 15:15, 15:18:01-15:18:04, 15:21, 15:23, 15:29, 15:31, 15:37, 15:44, 15:51-15:52, 15:55, 15:64, 15:72, 15:76, 15:80, 15:88-15:90, 15:93, 15:99, 15:108, 15:112, 15:114-15:115, 15:119, 15:121, 15:124, 15:133-15:134, 15:139, 15:143-15:144, 15:148, 15:153, 15:161, 15:170, 15:176, 15:186, 15:189, 15:191, 15:194, 15:197-15:198, 15:200, 15:209N, 15:213-15:215, 15:221, 15:223, 15:226N, 15:229, 15:238	
6	525 bp	1070 bp	*15:02:01-15:02:05, 15:13:01-15:13:02, 15:21, 15:25:01-15:25:03, 15:36, 15:44, 15:62,	

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			15:77, 15:80, 15:85, 15:88-15:89, 15:106, 15:112, 15:121, 15:139, 15:144, 15:154, 15:165, 15:170, 15:194, 15:204, 15:213-15:214, 15:223, 15:240	
7	330 bp	1070 bp	*15:03:01-15:03:03, 15:09- 15:10:02, 15:18:01-15:18:04, 15:23, 15:29, 15:37, 15:46- 15:47:02, 15:49, 15:51-15:54, 15:61-15:62, 15:64, 15:69, 15:72, 15:74, 15:80, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:106, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131- 15:134, 15:143, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 15:197-15:198, 15:200, 15:210, 15:212, 15:220- 15:221, 15:226N, 15:229, 15:235, 15:238, 15:242-15:243	*40:12, C*07:46
8⁵	105 bp	1070 bp	*15:04, 15:16:01-15:16:03, 15:67, 15:95, 15:137, 15:155, 15:222	*13:04, 13:46, 35:37, 39:06:01- 39:06:02, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 40:86, 40:159, 45:02, 45:09, 49:04-49:05, 50:09, 51:13:01- 51:13:02, 51:37, 51:63, 51:92, 51:97, 52:14, 54:14, 55:13, 55:23, 55:32, 56:22, 59:03, 73:01-73:02
9	365 bp	1070 bp	*15:05:01-15:05:02, 15:31, 15:52, 15:55, 15:84 ^w , 15:86, 15:91, 15:107, 15:114, 15:123-15:124, 15:151, 15:155, 15:185, 15:188, 15:222, 15:224, 15:237 ^w	*46:06, 46:11, 46:13:01-46:13:03, 46:18, 46:21:01-46:21:02, 46:26
10¹⁰	300 bp, 520 bp	1070 bp	*15:06, 15:27:01-15:27:03, 15:37- 15:38:02, 15:84, 15:109, 15:112, 15:185, 15:195	
11⁸	140 bp	800 bp	*15:07:01-15:07:02, 15:45, 15:55, 15:68, 15:126, 15:207	*07:68:01-07:68:03, 07:100, 08:71, 14:05, 14:13, 18:14, 27:32, 35:05:01-35:05:02, 35:22, 35:51, 35:58, 35:66, 35:72, 35:89, 35:97, 35:199, 38:19, 39:03, 39:14, 39:24:01-39:24:02, 39:29, 39:37, 40:35, 40:71, 42:10, 44:54, 44:106, 44:135, 46:12, 48:12, 48:14, 51:64, 53:14, 58:18
12⁷	405 bp	1070 bp	*15:08, 15:29, 15:49, 15:56, 15:191, 15:236	
13¹¹	395 bp, 435 bp	800 bp	*15:09-15:10:02, 15:18:01- 15:18:04, 15:21, 15:23, 15:37, 15:44, 15:51-15:52, 15:66, 15:72,	

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14¹²	465 bp, 515 bp	1070 bp	*15:09-15:10:02, 15:30, 15:37, 15:45, 15:48, 15:63, 15:83, 15:90, 15:99, 15:110, 15:150, 15:188, 15:243	
15^{5,7}	105 bp	1070 bp	*15:01:02, 15:09, 15:243	*07:02:11, 07:05:03, 40:01:06, 40:26, 51:06:01, 51:59, 51:64
16^{5,13}	120 bp, 190 bp	1070 bp	*15:12, 15:19, 15:116, 15:124	*40:52, 40:59, 46:06, 48:23
17	435 bp	1070 bp	*15:13:01-15:13:02, 15:16:01- 15:17:02, 15:23-15:24, 15:67, 15:87, 15:95, 15:157, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230	
18	195 bp	1070 bp	*15:14, 15:91, 15:131, 15:161	*18:56, 35:45, 35:71, 44:17, 44:43:01-44:43:02, 44:144, 45:09, 46:17, 53:22, 58:07
19⁸	395 bp	800 bp	*15:16:01-15:17:02, 15:67, 15:74, 15:95, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230	
20¹⁴	360 bp, 505 bp	1070 bp	*15:16:01-15:16:03, 15:34, 15:62, 15:67, 15:85-15:86, 15:95, 15:105, 15:137, 15:194, 15:222	*46:11, 46:18
21¹⁵	205 bp, 425 bp	1070 bp	*15:16:01-15:16:03, 15:43, 15:67, 15:95, 15:222	
22	190 bp	800 bp	*15:01:01:01-15:01:04, 15:01:06- 15:01:28, 15:03:01-15:05:02, 15:07:01-15:11:05, 15:12 ^w , 15:14- 15:16:03, 15:18:01-15:18:04, 15:19 ^w , 15:20, 15:23-15:24, 15:26N-15:30, 15:32-15:35, 15:37- 15:39:02, 15:43, 15:45-15:46, 15:48, 15:51, 15:53-15:54, 15:56- 15:58, 15:60-15:68, 15:70-15:76, 15:78:01-15:82, 15:84-15:85, 15:87, 15:90-15:92, 15:94N-15:99, 15:101-15:105, 15:107-15:111N, 15:113, 15:115-15:116, 15:118- 15:120, 15:122-15:123, 15:125- 15:127, 15:129, 15:131-15:136, 15:140-15:143, 15:145-15:155, 15:157-15:161, 15:163-15:167, 15:169, 15:171-15:176, 15:178-	*07:20, 07:24, 07:60, 07:100, 07:131, 08:21, 08:25, 13:03-13:04, 13:48, 18:36, 18:56-18:58, 35:01:01-35:03:05, 35:03:07- 35:14:02, 35:16-35:30, 35:32:01- 35:32:02, 35:34, 35:36-35:59, 35:61- 35:64, 35:67-35:72, 35:74-35:85, 35:89-35:92, 35:94-35:95, 35:97- 35:130N, 35:132-35:156, 35:158- 35:163, 35:165N-35:187, 35:189, 35:191-35:200, 38:30, 39:32-39:33, 40:05, 40:26, 40:28, 40:63, 40:71, 40:92, 40:174, 41:17, 44:10, 44:14, 44:17, 44:43:01-44:43:02, 44:45, 44:51, 44:62, 44:77, 44:82, 44:107, 44:123, 44:135, 45:09, 45:14, 46:01:01-46:02, 46:04-46:05, 46:07N-46:17, 46:19-46:20, 46:22-

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23⁷	230 bp	1070 bp	*15:19	*46:24
24¹⁶	205 bp, 300 bp	1070 bp	*15:26N, 15:33, 15:72, 15:78:01- 15:78:03, 15:107, 15:116, 15:141, 15:150, 15:188, 15:209N	*46:06
25¹⁷	315 bp, 385 bp	1070 bp	*15:28, 15:46, 15:53, 15:106, 15:212	
26	230 bp	1070 bp	*15:32	C*07:186
27⁵	115 bp	1070 bp	*15:33	*51:126, 57:54, C*03:87, C*05:27, C*05:39
28	240 bp	1070 bp	*15:35, 15:141	
29	255 bp	1070 bp	*15:37-15:38:02, 15:185	*14:05-14:06:01, 14:13, 18:01:01:01-18:01:05, 18:01:07- 18:01:16, 18:03-18:07:02, 18:09, 18:12-18:15, 18:17N, 18:19-18:20, 18:23N-18:26, 18:28-18:34, 18:36- 18:51, 18:53-18:55, 18:57, 18:59- 18:71, 39:32, 39:43, 39:48, 40:51, 40:113, 40:163, 40:174, 51:06:01, 51:45, 51:62, 51:64, 56:31
30^{8,18}	320 bp, 355 bp	1070 bp	*15:40, 15:47:01-15:47:02, 15:49, 15:52, 15:75, 15:114, 15:117, 15:124, 15:138, 15:238, 15:241	*46:06, 46:30
31¹⁹	320 bp, 395 bp	1070 bp	*15:44, 15:50, 15:69, 15:83, 15:86, 15:93, 15:114, 15:121, 15:153, 15:186, 15:188, 15:199, 15:218Q, 15:224	*46:03, 46:18, 46:21:01-46:21:02, 46:29
32^{7,20}	275 bp, 350 bp,	1070 bp	*15:48, 15:108, 15:136, 15:190N, 15:196, 15:235	*46:19

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380 bp				
33²¹	200 bp, 255 bp, 340 bp	1070 bp	*15:18:03, 15:42, 15:73, 15:86, 15:118, 15:192, 15:224	*46:11, 46:18
34⁸	160 bp	1070 bp	*15:51, 15:179, 15:199, 15:218Q	*08:28, 08:35, 08:37, 18:56, 35:115, 42:09, 44:17, 45:09, 51:97, 53:22, 57:24, C*07:68, C*07:140, C*07:151
35	165 bp	1070 bp	*15:30, 15:58, 15:73, 15:150	*08:70, 13:31, 13:41, 35:44, 39:36, 48:19, 51:61, 52:21, 55:21
36²²	360 bp, 435 bp	800 bp	*15:36, 15:82, 15:89, 15:115	
37	170 bp	1070 bp	*15:47:01-15:47:02, 15:49, 15:65, 15:84, 15:99, 15:221, 15:237	*07:02:01-07:02:17, 07:02:19- 07:02:25, 07:02:27-07:03, 07:05:01- 07:13, 07:15-07:16, 07:18:01- 07:18:02, 07:20-07:24, 07:27, 07:29- 07:33, 07:35-07:42, 07:44, 07:45 ^w , 07:46-07:47, 07:49N-07:51, 07:52 ^w , 07:53-07:54, 07:56:01-07:65, 07:67N-07:79, 07:81-07:95, 07:97- 07:99, 07:101-07:114, 07:116- 07:130, 07:132-07:145, 07:148- 07:154, 08:20, 08:40, 08:79, 13:18, 18:13, 18:21, 18:30, 35:08:01- 35:08:05, 35:18, 35:45, 35:61, 35:66, 35:80, 35:99-35:100, 35:105, 35:142, 35:156, 35:158, 35:172, 35:174, 35:176, 35:187, 35:192, 37:07, 39:08 ^w , 39:11 ^w , 39:33, 40:15- 40:16, 40:23, 40:32, 40:98, 40:128, 40:161, 46:03, 48:05, 48:08, 51:05, 51:29, 51:54, 51:82, 52:24, 53:11, 53:16, 53:24, 54:10, 54:20, 55:09, 55:37, 55:52, 57:02:01-57:02:02, 57:12-57:13, 57:19, 57:28N, 57:30, 57:42, 58:22, C*04:108, C*15:08
38⁶	225 bp	1070 bp	*15:61, 15:70, 15:76, 15:101, 15:180, 15:189, 15:236	*07:29 ^w , 07:65, 07:72, 07:86, 08:01:01 ^w -08:01:17 ^w , 08:04 ^w -08:05 ^w , 08:07 ^w -08:22 ^w , 08:24 ^w -08:25 ^w , 08:26, 08:27 ^w -08:49 ^w , 08:50, 08:51 ^w - 08:53 ^w , 08:55 ^w -08:65 ^w , 08:67N ^w - 08:71 ^w , 08:73 ^w -08:88 ^w , 14:11, 14:28, 35:29:01-35:29:02, 35:69, 35:76, 35:136, 35:186 ^w , 35:198, 39:04, 39:63, 40:43 ^w , 40:166, 44:90, 45:06 ^w , 46:01:01 ^w , 46:01:03 ^w - 46:01:07 ^w , 46:03 ^w -46:04 ^w , 46:06 ^w - 46:30 ^w , 51:20 ^w , 53:23 ^w , 54:01:01- 54:01:02, 54:03-54:11, 54:12 ^w ,

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39 ²³	305 bp, 325 bp, 380 bp	800 bp	*15:60, 15:95, 15:119	C*07:213
40 ^{7,24}	220 bp, 425 bp	1070 bp	*15:13:01-15:13:02, 15:16:01-15:17:02, 15:23-15:24, 15:67, 15:71, 15:95, 15:157, 15:162, 15:168, 15:175, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230	
41	465 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:08, 15:11:01-15:16:03, 15:18:01-15:19, 15:21, 15:23-15:29, 15:31-15:36, 15:38:01-15:40, 15:43-15:44, 15:46-15:47:02, 15:49-15:57, 15:60-15:62, 15:64-15:72, 15:74-15:76, 15:78:01-15:82, 15:84-15:85, 15:87-15:89, 15:91-15:98, 15:101-15:129, 15:131-15:132, 15:134-15:136, 15:138-15:149N, 15:151-15:161, 15:163-15:167, 15:169-15:176, 15:178-15:187, 15:189-15:195, 15:197-15:207, 15:209N-15:215, 15:217-15:223, 15:225-15:228, 15:231-15:232, 15:234-15:242, 15:244	*35:43, 35:185, 46:01:01-46:10, 46:12-46:17, 46:19-46:30, 56:03
42 ²⁵	345 bp, 460 bp	1070 bp	*15:02:01-15:03:03, 15:05:01-15:06, 15:09-15:10:02, 15:13:01-15:13:02, 15:16:01-15:18:04, 15:21, 15:23, 15:25:01-15:25:03, 15:29, 15:31, 15:36-15:37, 15:39:01-15:40, 15:44, 15:48, 15:52, 15:55, 15:61-15:62, 15:64, 15:67, 15:69, 15:72-15:74, 15:80, 15:86, 15:88 ^w , 15:89-15:91, 15:93, 15:95, 15:98, 15:103, 15:106-15:108, 15:112, 15:114-15:115, 15:119, 15:121, 15:123-15:124, 15:127, 15:131-15:134, 15:136, 15:138-15:139, 15:151, 15:153,	*46:06, 46:08, 46:11, 46:13:01-46:13:03, 46:18-46:19, 46:21:01-46:21:02, 46:26

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43	525 bp	1070 bp	*15:04, 15:16:01-15:16:03, 15:67, 15:83, 15:95, 15:137, 15:155, 15:222	*46:11, 46:18
44	515 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:01:13, 15:01:15-15:01:28, 15:03:01-15:03:03, 15:05:01-15:05:02, 15:07:01-15:11:02, 15:11:04-15:12, 15:14-15:15, 15:17:01:01-15:18:01, 15:18:03-15:19, 15:23-15:24, 15:26N ^w , 15:28-15:31, 15:33-15:35, 15:37-15:40, 15:43, 15:45-15:58, 15:60-15:61, 15:63-15:66, 15:68-15:76, 15:78:01-15:79N, 15:81-15:82, 15:87, 15:90-15:94N, 15:96-15:99, 15:101-15:105, 15:107-15:108, 15:111N, 15:113-15:120, 15:122-15:128, 15:131-15:136, 15:138, 15:140-15:143, 15:145-15:153, 15:156-15:169, 15:171-15:183, 15:185-15:193, 15:196-15:203, 15:205-15:212, 15:215-15:221, 15:224-15:239, 15:241-15:244	*35:43, 35:185, 46:01:01-46:10, 46:12-46:17, 46:19-46:30, 56:03
45	475 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:01:28, 15:03:01-15:05:02, 15:07:01-15:12, 15:14-15:16:03, 15:18:01-15:19, 15:23-15:24, 15:26N-15:30, 15:32-15:35, 15:37-15:40, 15:43, 15:45-15:54, 15:56-15:58, 15:60-15:76, 15:78:01-15:87, 15:90-15:99, 15:101-15:105, 15:107-15:111N, 15:113-15:120, 15:122-15:127, 15:129, 15:131-15:136, 15:138, 15:140-15:143, 15:145-15:155, 15:157-15:161, 15:163-15:167, 15:169, 15:171-15:176, 15:178-15:195, 15:197-15:203, 15:205-15:206, 15:209N-15:210, 15:212, 15:215, 15:217-15:229, 15:231-15:232, 15:234-15:239, 15:241-15:244	*35:43, 35:185, 46:01:01-46:30, 56:03

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46	355 bp	800 bp	*15:01:01:01-15:01:04, 15:01:06-15:04, 15:06-15:19, 15:21, 15:23-15:30, 15:32-15:40, 15:43-15:47:02, 15:49-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:74, 15:76-15:82, 15:85, 15:87, 15:89-15:90, 15:92-15:99, 15:101-15:104, 15:106, 15:108-15:110, 15:112-15:113, 15:115-15:122, 15:125-15:129, 15:131-15:135, 15:137-15:144, 15:146-15:150, 15:152-15:154, 15:156-15:161, 15:163-15:175, 15:177-15:178, 15:180-15:184, 15:187, 15:189-15:199, 15:201-15:217, 15:219-15:221, 15:223, 15:225-15:234, 15:236, 15:238-15:244	*35:43, 35:185, 46:01:01-46:05, 46:07N-46:08, 46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:27-46:30, 56:03
47	320 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:19, 15:21, 15:23-15:39:02, 15:43, 15:45-15:46, 15:48, 15:51, 15:53-15:58, 15:60-15:68, 15:70-15:82, 15:84-15:85, 15:87-15:92, 15:94N-15:99, 15:101-15:113, 15:115-15:116, 15:118-15:120, 15:122-15:123, 15:125-15:129, 15:131-15:137, 15:139-15:185, 15:187, 15:189-15:198, 15:200-15:217, 15:219-15:223, 15:225-15:237, 15:239-15:240, 15:242-15:244	*35:43, 35:185, 46:01:01-46:02, 46:04-46:05, 46:07N-46:17, 46:19-46:20, 46:22-46:28, 56:03
48	420 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:01:16, 15:01:17 ^w , 15:01:18-15:19, 15:21, 15:23-15:32, 15:34-15:40, 15:43-15:58, 15:60-15:71, 15:73-15:77, 15:79N-15:99, 15:101-15:106, 15:108-15:115, 15:117-15:129, 15:131-15:140, 15:142-15:149N, 15:151-15:187, 15:189-15:244	*35:43, 35:185, 46:01:01-46:05, 46:07N-46:30, 56:03
49	135 bp	1070 bp	*15:57, 15:135	*13:39
50^{5,8,26}	85 bp, 185 bp	1070 bp	*15:67, 15:206	*35:110, A*68:56
51	135 bp	1070 bp	*15:98, 15:109, 15:163	
52⁷	345 bp	800 bp	*15:92, 15:213	
53	210 bp	800 bp	*15:96	
54²⁷	250 bp, 410 bp	800 bp	*15:97, 15:187	C*12:36
55²⁸	175 bp, 250 bp	1070 bp	*15:102, 15:214	*07:120, 40:150, 57:29

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56 ^{5,29}	70 bp, 260 bp	1070 bp	*15:103, 15:227	*27:69, 37:23
57	345 bp	1070 bp	*15:111N	
58	170 bp	1070 bp	*15:113	
59 ³⁰	230 bp, 375 bp, 420 bp	800 bp	*15:94N, 15:191, 15:198, 15:234	*35:161, C*06:33
60 ³¹	165 bp, 385 bp	800 bp	*15:20, 15:120, 15:228	*35:01:01:01-35:01:27, 35:01:29-35:30, 35:32:01-35:42:02, 35:44-35:56, 35:58-35:59, 35:61-35:72, 35:74-35:78, 35:80-35:86, 35:88-35:184, 35:186-35:200, 48:02:01-48:02:02, 51:01:01-51:24:04, 51:26-51:41N, 51:43-51:46, 51:48-51:131, 52:01:01:01-52:06:02, 52:08-52:29, 53:01:01-53:27, 56:05:01-56:05:02, 56:21, 58:01:01-58:01:09, 58:02, 58:04-58:10N, 58:12-58:19, 58:21-58:36, 78:01:01-78:07, 81:03, 83:01 [?]
61 ³²	160 bp, 205 bp	1070 bp	*15:125, 15:175	*44:22, 44:105
62 ⁵	105 bp	1070 bp	*15:126	
63	175 bp	1070 bp	*15:127	
64	365 bp	800 bp	*15:122	C*03:48
65	520 bp	1070 bp	*15:129	
66	435 bp	1070 bp	*15:02:01-15:02:05, 15:13:01-15:13:02, 15:20-15:21, 15:25:01-15:25:03, 15:36, 15:44, 15:77, 15:85, 15:88-15:89, 15:112, 15:118, 15:121, 15:139, 15:144, 15:154, 15:194, 15:204, 15:213-15:214, 15:223, 15:240	*13:01:01-13:01:06, 13:06-13:07N, 13:12-13:13, 13:17, 13:20-13:23, 13:25-13:26, 13:28-13:29, 13:36, 13:39, 13:43, 13:50-13:52, 35:46, 40:137, 44:08, 44:57, 44:60, 57:01:01-57:10, 57:12-57:15, 57:17-57:33, 57:34 ^w , 57:35-57:44, 57:46-57:50, 57:52-57:57, 58:36
67 ^{8,33}	265 bp, 300 bp	800 bp	*15:53, 15:132, 15:183, 15:212	*46:10
68	215 bp	1070 bp	*15:134	
69 ⁵	130 bp	1070 bp	*15:57	
70 ^{5,34}	90 bp, 185 bp	1070 bp	*15:138, 15:208, 15:230, 15:241	*07:68:01-07:68:03, 18:35, 35:66, 40:77, 40:87:01-40:87:02, 40:121, 40:158, 44:150, 48:12, 48:14, 48:26
71 ³⁵	315 bp, 400 bp	1070 bp	*15:139, 15:205	
72 ^{5,36}	110 bp, 295 bp, 390 bp	1070 bp	*15:140, 15:201, 15:226N	

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73^{5,37}	110 bp, 155 bp	1070 bp	*15:09, 15:30 ^w , 15:42, 15:58 ^w , 15:73 ^w , 15:142, 15:150 ^w , 15:229, 15:243	*07:05:01-07:06, 07:29, 07:32, 07:34, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 08:01:11, 08:20, 08:56, 08:79, 13:16, 13:20, 13:31 ^w , 13:48, 14:13, 27:20, 27:24, 35:44 ^w , 38:10, 38:32, 39:35, 39:36 ^w , 40:05, 40:15-40:16, 40:23, 40:26, 40:28, 40:51, 40:95, 40:148, 40:158, 40:161, 40:174, 40:183, 48:05, 48:15, 51:01:01- 51:01:18, 51:01:19 ^w , 51:01:20- 51:01:30, 51:01:32-51:02:02, 51:02:04-51:04, 51:06:01-51:07:02, 51:11N-51:14, 51:16, 51:21- 51:24:04, 51:26-51:30, 51:32-51:35, 51:38-51:39, 51:41N, 51:43, 51:46, 51:48-51:53, 51:55-51:60, 51:61 ^w , 51:62-51:71, 51:74-51:80, 51:82- 51:84, 51:86, 51:88-51:89, 51:95- 51:96, 51:98N-51:107, 51:109- 51:114, 51:116-51:121, 51:123- 51:131, 52:01:01:01-52:01:10, 52:02, 52:04-52:09, 52:11, 52:13- 52:18, 52:20, 52:21 ^w , 52:22-52:25, 52:27-52:29, 54:20, 55:01:01- 55:01:09, 55:03, 55:05, 55:09, 55:11, 55:15, 55:17, 55:21 ^w , 55:24- 55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:52-55:55N, 56:05:01-56:06, 56:21, 56:25, 57:49, 57:57, 58:08:01-58:08:02, 78:01:01-78:03, 78:05-78:07, C*07:02:30, C*15:24
74⁵	75 bp	800 bp	*15:145, 15:176	*52:28
75³⁸	280 bp, 390 bp	1070 bp	*15:146, 15:201	
76	475 bp	1070 bp	*15:02:01-15:02:05, 15:06, 15:13:01-15:13:02, 15:17:01:01- 15:17:02, 15:21, 15:25:01- 15:25:03, 15:31, 15:36, 15:44, 15:55, 15:77, 15:88-15:89, 15:106, 15:112, 15:121, 15:128, 15:137, 15:139, 15:144, 15:156, 15:162, 15:168, 15:170, 15:177, 15:196, 15:204, 15:208, 15:213-15:214, 15:216, 15:230, 15:233, 15:240	
77	195 bp	1070 bp	*15:104	
78	385 bp	1070 bp	*15:147	

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79 ³⁹	215 bp, 420 bp	800 bp	*15:148, 15:182N	
80 ⁵	85 bp	1070 bp	*15:149N	
81 ⁸	395 bp	1070 bp	*15:11:01-15:11:05, 15:143, 15:148-15:149N, 15:152, 15:209N, 15:215	
82 ⁵	80 bp	1070 bp	*15:81	
83 ⁸	210 bp	1070 bp	*15:159	*07:23, 40:79, 40:190, 41:14
84 ⁴⁰	155 bp, 195 bp, 235 bp	1070 bp	*15:167, 15:197, 15:211, 15:215	*35:117
85 ^{7,41}	340 bp, 395 bp, 420 bp	1070 bp	*15:76, 15:101, 15:157, 15:164	
86 ⁴²	230 bp, 400 bp	1070 bp	*15:166, 15:193	
87 ^{5,43}	85 bp, 295 bp	1070 bp	*15:71, 15:169, 15:175, 15:204, 15:225	*18:29, 35:50, 37:22, 41:12, 46:14, 49:03, 54:02, 55:16, 56:35, 57:39
88 ⁴⁴	240 bp, 445 bp	800 bp	*15:158, 15:171	
89 ⁴⁵	370 bp, 420 bp	1070 bp	*15:94N, 15:160	
90 ^{5,46}	95 bp, 195 bp	1070 bp	*15:173, 15:202, 15:239	*18:12, 18:63, 35:10, 35:13, 35:16, 35:28, 35:69, 35:80, 37:01:01- 37:01:05, 37:01:07-37:05, 37:07, 37:09-37:27, 37:29-37:33N, 40:185, 44:83, 44:134, 49:03, 50:11, 52:01:01:01-52:01:11, 52:03-52:15, 52:17, 52:19-52:29, 53:17:01- 53:17:02, 78:05-78:06
91 ^{9,47}	135 bp, 325 bp	1070 bp	*15:170, 15:184, 15:203	
92	155 bp	1070 bp	*15:172	
93 ⁷	295 bp	1070 bp	*15:177	
94 ⁴⁸	285 bp, 325 bp	1070 bp	*15:123, 15:178	
95 ⁴⁹	340 bp, 395 bp	1070 bp	*15:40, 15:47:01-15:47:02, 15:49, 15:52, 15:114, 15:117, 15:124, 15:138, 15:181N, 15:238, 15:241	*46:06, 46:30
96 ⁷	185 bp	1070 bp	*15:174	

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-B*15 SSP typings.

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective lengths of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have

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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 two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*15 subtyping.

In addition, wells number 4, 11, 13, 19, 22, 36, 39, 46, 52-54, 59-60, 64, 67, 74, 79 and 88 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

³For several HLA-B alleles 1st, 4th and 5th exon or 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. We assume that unknown sequences in these areas are conserved within allelic groups. We also assume that the B*15- and B*46-specific sequence motifs in the 2nd and 3rd intron are conserved within the HLA-B*15 and HLA-B*46 groups of alleles.

⁴Due to the sharing of sequence motifs between HLA-B alleles, non-HLA-B*15 alleles will be amplified by many HLA-B*15 primer mixes. In addition, primer mix 2 will amplify the C*07:02:30 and C*08:16:02 alleles, primer mix 3 will amplify the A*26:68, A*68:56, C*02:56, C*06:20 and C*12:50, primer mix 7 will amplify the C*07:46, primer mix 22 will amplify the C*03:81 and C*15:15, primer mix 26 will amplify the C*07:186, primer mix 27 will amplify the C*03:87, C*05:27 and C*05:39, primer mix 34 will amplify the C*07:68, C*07:140 and C*07:151, primer mix 37 will amplify the C*04:108 and C*15:08, primer mix 39 will amplify the C*07:213, primer mix 50 will amplify the A*68:56, primer mix 54 will amplify the C*12:36, primer mix 54 will amplify the C*06:33, primer mix 59 will amplify the C*06:33, primer mix 64 will amplify the C*03:48 and primer mix 73 will amplify the C*07:02:30 and C*15:24 alleles.

⁵Short specific PCR fragments are less intense and not as sharp as longer specific bands.

⁶Primer mix 38 may give a lower yield of HLA-specific PCR product than the other HLA-B*15 primer mixes.

⁷Primer mixes 12, 15, 23, 32, 40, 52, 85, 93 and 96 might have a tendency of giving rise to primer oligomer artifacts.

⁸Primer mixes 5, 11, 19, 30, 34, 67, 81 and 83 might give rise to non-specific amplifications.

⁹Primer solution 91 may give rise to a long unspecific amplification product of approximately 800 bp. This should be disregarded when interpreting the B*15 typings.

¹⁰Primer solution 10: Specific PCR fragment of 300 bp in the B*15:37-15:38:02 and 15:185 alleles. Specific PCR fragment of 520 bp in the B*15:06, 15:27:01-15:27:03, 15:84, 15:109, 15:112 and 15:195 alleles.

¹¹Primer solution 13: Specific PCR fragment of 395 bp in the B*15:09-15:10:02, 15:18:01-15:18:04, 15:21, 15:23, 15:37, 15:44, 15:51-15:52, 15:66, 15:72, 15:80, 15:90, 15:93, 15:99, 15:108, 15:114-15:115, 15:119, 15:124, 15:133-15:134, 15:153, 15:161, 15:176, 15:186, 15:189, 15:197-15:198, 15:200, 15:221, 15:226N, 15:229, 15:238 and 15:243 alleles. Specific PCR fragment of 435 bp in the B*15:79N allele.

¹²Primer mix 14: Specific PCR fragment of 465 bp in B*15:09-15:10:02, 15:30, 15:37, 15:45, 15:48, 15:63, 15:83, 15:90, 15:99, 15:150, 15:188 and 15:243 alleles. Specific PCR fragment of 515 bp in the B*15:110 allele.

¹³Primer mix 16: Specific PCR fragment of 120 bp in the B*15:116 and 15:124 and the B*40:52, 40:59, 46:06 and 48:23 alleles. Specific PCR fragment of 190 bp in the B*15:12 and 15:19 alleles.

¹⁴Primer mix 20: Specific PCR fragment of 360 bp in B*15:105 allele. Specific PCR fragment of 505 bp in the B*15:16:01-15:16:03, 15:34, 15:62, 15:67, 15:85-15:86, 15:95, 15:137, 15:194 and 15:222 and the B*46:11 and 46:18 alleles.

¹⁵Primer solution 21: Specific PCR fragment of 205 bp in the B*15:16:01-15:16:03, 15:67, 15:95 and 15:222 alleles. Specific PCR fragment of 425 bp in the B*15:43 allele.

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¹⁶Primer mix 24: Specific PCR fragment of 205 bp in the B*15:26N allele. Specific PCR fragment of 300 bp in the B*15:33, 15:72, 15:78:01-15:78:03, 15:107, 15:116, 15:141, 15:150, 15:188 and 15:209N and the B*46:06 alleles.

¹⁷Primer solution 25: Specific PCR fragment of 315 bp in the B*15:46, 15:53, 15:106 and 15:212 alleles. Specific PCR fragment of 385 bp in the B*15:28 allele.

¹⁸Primer solution 30: Specific PCR fragment of 320 bp in the B*15:40, 15:47:01-15:47:02, 15:49, 15:52, 15:114, 15:117, 15:124, 15:138, 15:238 and 15:241 and the B*46:06 and 46:30 alleles. Specific PCR fragment of 355 bp in the B*15:75 allele.

¹⁹Primer mix 31: Specific PCR fragment of 320 bp in the B*15:44, 15:50, 15:69, 15:83, 15:86, 15:93, 15:121, 15:186, 15:188, 15:199, 15:218Q and 15:224 and the B*46:03, 46:18, 46:21:01-46:21:02 and 46:29 alleles. Specific PCR fragment of 395 bp in the B*15:114 and 15:153 alleles.

²⁰Primer mix 32: Specific PCR fragment of 275 bp in the B*15:196 allele. Specific PCR fragment of 350 bp in the B*15:190N allele. Specific PCR fragment of 380 bp in the B*15:48, 15:108, 15:136 and 15:235 and the B*46:19 alleles.

²¹Primer solution 33: Specific PCR fragment of 200 bp in the B*15:118 allele. Specific PCR fragment of 255 bp in the B*15:18:03, 15:42, 15:73, 15:86 and 15:224 and the B*46:11 and 46:18 alleles. Specific PCR fragment of 340 bp in the B*15:192 allele.

²²Primer solution 36: Specific PCR fragment of 360 bp in the B*15:82 allele. Specific PCR fragment of 435 bp in the B*15:36, 15:89 and 15:115 alleles.

²³Primer solution 39: Specific PCR fragment of 305 bp in the B*15:60 and in the C*07:213 allele. Specific PCR fragment of 325 bp in the B*15:119 allele. Specific PCR fragment of 380 bp in the B*15:95 allele.

²⁴Primer solution 40: Specific PCR fragment of 220 bp in the B*15:71 and B*15:175 alleles. Specific PCR fragment of 425 bp in the B*15:13:01-15:13:02, 15:16:01-15:17:02, 15:23-15:24, 15:67, 15:95, 15:157, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222 and 15:230 alleles.

²⁵Primer mix 42: Specific PCR fragment of 345 bp in the B*15:02:01-15:03:03, 15:05:01-15:06, 15:09-15:10:02, 15:13:01-15:13:02, 15:16:01-15:18:04, 15:21, 15:23, 15:25:01-15:25:03, 15:29, 15:31, 15:36-15:37, 15:39:01-15:40, 15:44, 15:48, 15:52, 15:55, 15:61-15:62, 15:64, 15:67, 15:69, 15:72, 15:74, 15:80, 15:88^w, 15:89-15:91, 15:93, 15:95, 15:98, 15:103, 15:106-15:108, 15:112, 15:114-15:115, 15:119, 15:121, 15:123-15:124, 15:127, 15:131-15:134, 15:136, 15:138-15:139, 15:151, 15:153, 15:155-15:156, 15:158, 15:161-15:162, 15:170, 15:173, 15:176^w, 15:177, 15:185-15:186, 15:188, 15:194-15:198, 15:200^w, 15:204, 15:208, 15:210, 15:213-15:214, 15:216, 15:219-15:220, 15:222-15:223, 15:226N, 15:229-15:230, 15:235, 15:238, 15:240 and 15:242-15:243 and the B*46:06, 46:08, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02 and 46:26 alleles. Specific PCR fragment of 460 bp in the B*15:73 allele. Specific PCR fragments of 345 and 460 bp in the B*15:86 and 15:224 and the B*46:11 and 46:18 alleles.

²⁶Primer mix 50: Specific PCR fragment of 85 bp in the B*15:67 and the B*35:110 and in the A*68:56 alleles. Specific PCR fragment of 185 bp in the B*15:206 allele.

²⁷Primer mix 54: Specific PCR fragment of 250 bp in the B*15:187 and in the C*12:36 alleles. Specific PCR fragment of 410 bp in the B*15:97 allele.

²⁸Primer mix 55: Specific PCR fragment of 175 bp in the B*15:214 and the B*07:120, 40:150 and 57:29 alleles. Specific PCR fragment of 250 bp in the B*15:102 allele.

²⁹Primer mix 56: Specific PCR fragment of 70 bp in the B*15:103 allele. Specific PCR fragment of 260 bp in the B*15:227 and the B*27:69 and 37:23 alleles.

³⁰Primer mix 59: Specific PCR fragment of 230 bp in the B*15:191 and 15:234 and in the C*06:33 alleles. Specific PCR fragment of 375 bp in the B*15:198 and the B*35:161 alleles. Specific PCR fragment of 420 bp in the B*15:94N allele.

³¹Primer mix 60: Specific PCR fragment of 165 bp in the B*15:20 and 15:228 and the B*35:01:01:01-35:01:27, 35:01:29-35:30, 35:32:01-35:42:02, 35:44-35:56, 35:58-35:59, 35:61-35:72, 35:74-35:78, 35:80-35:86, 35:88-35:184, 35:186-35:200, 48:02:01-48:02:02, 51:01:01-51:24:04, 51:26-51:41N, 51:43-51:46, 51:48-51:131, 52:01:01:01-52:06:02, 52:08-52:29, 53:01:01-53:27, 56:05:01-56:05:02, 56:21, 58:01:01-58:01:09, 58:02, 58:04-58:10N, 58:12-58:19, 58:21-58:36, 78:01:01-78:07, 81:03 and 83:01[?] alleles. Specific PCR fragment of 385 bp in the B*15:120 allele.

³²Primer mix 61: Specific PCR fragment of 160 bp in the B*15:175 allele. Specific PCR fragment of 205 bp in the B*15:125 and the B*44:22 and 44:105 alleles.

³³Primer mix 67: Specific PCR fragment of 265 bp in the B*15:53, 15:183 and 15:212 and the B*46:10 alleles. Specific PCR fragment of 300 bp in the B*15:132 allele.

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³⁴Primer mix 70: Specific PCR fragment of 90 bp in the B*15:208 allele. Specific PCR fragment of 185 bp in the B*15:138, 15:230 and 15:241 and the B*07:68:01-07:68:03, 18:35, 35:66, 40:77, 40:87:01-40:87:02, 40:121, 40:158, 44:150, 48:12, 48:14 and 48:26 alleles.

³⁵Primer mix 71: Specific PCR fragment of 315 bp in the B*15:205 allele. Specific PCR fragment of 400 bp in the B*15:139 allele.

³⁶Primer mix 72: Specific PCR fragment of 100 bp in the B*15:226N allele. Specific PCR fragment of 295 bp in the B*15:140 allele. Specific PCR fragment of 390 bp in the B*15:201 allele.

³⁷Primer mix 73: Specific PCR fragment of 110 bp in the B*15:142 and the B*07:29, 08:01:11, 08:56, 51:68 and 57:49 and in the C*07:02:30 alleles. Specific PCR fragment of 155 bp in the B*15:09, 15:30^w, 15:42, 15:58^w, 15:73^w, 15:150^w, 15:229 and 15:243 and the B*07:05:01-07:06, 07:32, 07:34, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 08:20, 08:79, 13:16, 13:20, 13:31^w, 13:48, 14:13, 27:20, 27:24, 35:44^w, 38:10, 38:32, 39:35, 39:36^w, 40:05, 40:15-40:16, 40:23, 40:26, 40:28, 40:51, 40:95, 40:148, 40:158, 40:161, 40:174, 40:183, 48:05, 48:15, 51:01:01-51:01:18, 51:01:19^w, 51:01:20-51:01:30, 51:01:32-51:02:02, 51:02:04-51:04, 51:06:01-51:07:02, 51:11N-51:14, 51:16, 51:21-51:24:04, 51:26-51:30, 51:32-51:35, 51:38-51:39, 51:41N, 51:43, 51:46, 51:48-51:53, 51:55-51:60, 51:61^w, 51:62-51:71, 51:74-51:80, 51:82-51:84, 51:86, 51:88-51:89, 51:95-51:96, 51:98N-51:107, 51:109-51:114, 51:116-51:121, 51:123-51:131, 52:01:01:01-52:01:10, 52:02, 52:04-52:09, 52:11, 52:13-52:18, 52:20, 52:21^w, 52:22-52:25, 52:27-52:29, 54:20, 55:01:01-55:01:09, 55:03, 55:05, 55:09, 55:11, 55:15, 55:17, 55:21^w, 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:52-55:55N, 56:05:01-56:06, 56:21, 56:25, 57:57, 58:08:01-58:08:02, 78:01:01-78:03 and 78:05-78:07 and in the C*15:24 alleles.

³⁸Primer mix 75: Specific PCR fragment of 280 bp in the B*15:146 allele. Specific PCR fragment of 390 bp in the B*15:201 allele.

³⁹Primer mix 79: Specific PCR fragment of 215 bp in the B*15:182N allele. Specific PCR fragment of 420 bp in the B*15:148 allele.

⁴⁰Primer mix 84: Specific PCR fragment of 155 bp in the B*15:167 allele. Specific PCR fragment of 195 bp in the B*15:211 allele. Specific PCR fragment of 235 bp in the B*15*15:197 and 15:215 and the B*35:117 alleles.

⁴¹Primer mix 85: Specific PCR fragment of 340 bp in the B*15:157 allele. Specific PCR fragment of 395 bp in the B*15:76 and 15:101 alleles. Specific PCR fragment of 420 bp in the B*15:164 allele.

⁴²Primer mix 86: Specific PCR fragment of 230 bp in the B*15:166 allele. Specific PCR fragment of 400 bp in the B*15:193 allele.

⁴³Primer mix 87: Specific PCR fragment of 85 bp in the B*15:71, 15:175, 15:204 and 15:225 and the B*18:29, 35:50, 37:22, 41:12, 46:14, 49:03, 54:02, 55:16, 56:35, 57:39 alleles. Specific PCR fragment of 295 bp in the B*15:169 allele.

⁴⁴Primer mix 88: Specific PCR fragment of 240 bp in the B*15:171 allele. Specific PCR fragment of 445 bp in the B*15:158 allele.

⁴⁵Primer mix 89: Specific PCR fragment of 370 bp in the B*15:160 allele. Specific PCR fragment of 420 bp in the B*15:94N allele.

⁴⁶Primer mix 90: Specific PCR fragment of 95 bp in the B*15:202, 15:239, 18:12, 35:10, 35:13, 35:16, 35:28, 35:69, 35:80, 37:01:01-37:01:05, 37:01:07-37:05, 37:07, 37:09-37:27, 37:29-37:33N, 40:185, 44:83, 44:134, 49:03, 52:01:01:01-52:01:11, 52:03-52:15, 52:17, 52:19-52:29, 53:17:01-53:17:02, 78:05-78:06 alleles. Specific PCR fragment of 195 bp in the B*15:173, 18:63, 50:11 alleles.

⁴⁷Primer mix 91: Specific PCR fragment of 135 bp in the B*15:184 and 15:203 alleles. Specific PCR fragment of 325 bp in the B*15:170 allele.

⁴⁸Primer mix 94: Specific PCR fragment of 285 bp in the B*15:123 allele. Specific PCR fragment of 325 bp in the B*15:178 allele.

⁴⁹Primer mix 95: Specific PCR fragment of 340 bp in the B*15:181N allele. Specific PCR fragment of 395 bp in the B*15:40, 15:47:01-15:47:02, 15:49, 15:52, 15:114, 15:117, 15:124, 15:138, 15:238 and 15:241 and the B*46:06 and 46:30 alleles.

‘w’, might be weakly amplified.

‘?’, nucleotide sequence information not available for the primer matching sequence.

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Lot-specific information

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[illegible]

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Lot-specific information

[illegible]

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[illegible]

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Lot-specific information

Control Allele												Lot Specific Information																								Well No.
HLA-A Allele												HLA-B Allele																								HLA-B Allele ^{2,3}
																																				*15:93
																																				*15:94N
																																				*15:95
																																				*15:96
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																																				*15:98
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																																				*15:150
																																				*15:151
																																				*15:152
																																				*15:153
																																				*15:154
Well No.												Well No.																								Well No.
HLA-A Allele												HLA-B Allele																								HLA-B Allele ^{2,3}

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 94N

Lot-specific information

[illegible]

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Lot No.: **94N**

Lot-specific information

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101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 94N

Lot-specific information

Well No.									Lot specific information																															
HLA-B allele ^{2,3}	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8		
*15:221					+		+						+										+						+						+		+	+	+	+
*15:222								+	+									+		+	+	+	+							+					+	+	+		+	
*15:223	+	+			+	+																	+													+	+		+	
*15:224	+	+							+																					+	+						+	+	+	
*15:226N					+		+					+											+													+	+	+	+	
*15:227	+	+	+	+																			+												+		+	+	+	
*15:229					+		+						+										+												+	+	+	+	+	
*15:233	+	+	+	+																																+		+	+	
*15:234	+	+	+																				+												+	+	+	+	+	
*15:235	+						+																+						+							+	+		+	
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*15:237	+	+							w														+													+	+	+	+	
*15:238					+		+					+																								+	+	+	+	
*15:241	+	+	+	+																																+	+	+	+	
*15:243							+						+	+	+								+													+	+	+	+	
*07:02:01-07:02:10, 07:02:12-07:02:17, 07:02:19-07:02:25, 07:02:27-07:03, 07:07-07:13, 07:15-07:16, 07:18:01-07:18:02, 07:21-07:22:02, 07:27, 07:30-07:31, 07:33, 07:35-07:39, 07:41-07:42, 07:44, 07:46-07:47, 07:49N-07:51, 07:54, 07:56:01-07:59, 07:61-07:64, 07:67N, 07:70-07:71, 07:73-07:77, 07:79, 07:81-07:85, 07:87-07:89, 07:91-07:95, 07:98-07:99, 07:101-07:104, 07:106-07:111N, 07:113-07:114, 07:116-07:119, 07:121-07:122, 07:124-07:130, 07:132-07:136, 07:139, 07:141-07:145, 07:148-07:154, 13:18, 18:21, 40:32, 40:98, 40:128, 48:08, C*04:108, C*15:08																																								
*07:02:11													+																							+				
*07:05:01-07:05:02, 07:05:04-07:06, 07:32, 07:40, 07:53, 07:69, 07:78, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 40:15-40:16, 40:23, 40:161, 48:05																																								
*07:05:03													+																							+				
*07:20, 07:24, 07:60																							+													+				
*07:23																																				+				
*07:29, 08:20, 08:79																																				+	w			
*07:34, 07:80, 13:16, 27:20, 27:24, 38:10, 38:32, 39:35, 40:95, 40:148, 40:183, 48:15, 55:01:08, 55:31, C*15:24																																								
*07:45, 07:52, 39:08, 39:11																																				w				
*07:65, 07:72, 07:86, 54:10, 55:37																																				+	+			
*07:68:01-07:68:03												+																								+				
*07:100			+									+											+																	
*07:120																																				+				
Well No.									Lot specific information																															
HLA-B allele ^{2,3}	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8		

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 94N

Lot-specific information

[illegible]

101. 516-24/04 – including *Taq* polymerase, IFU-01
 101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 94N

Lot-specific information

Well No.									1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
HLA-B allele ^{2,3}	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8		
*07:131, 13:03, 18:58, 35:01:28, 35:57, 38:30, 40:63, 40:92, 41:17, 44:10, 44:14, 44:45, 44:51, 44:62, 44:77, 44:82, 44:107, 44:123, 45:14, 48:25, 56:07, 57:11, 57:16, 57:45, 57:51, 58:01:10-58:01:11, 58:11, 59:04, 82:01-82:03, C*03:81, C*15:15																																								
*08:01:01-08:01:10, 08:01:12-08:01:17, 08:04-08:05, 08:07-08:19N, 08:22, 08:24, 08:27, 08:29-08:34, 08:36, 08:38-08:39, 08:41-08:49, 08:51-08:53, 08:55, 08:57-08:65, 08:67N-08:69, 08:73-08:78, 08:80-08:88, 40:43, 45:06, 54:12, 55:12, 55:49																																								
*08:01:11, 08:56, 55:03, 55:25																																								
*08:21, 08:25																																								
*08:26, 08:50, 14:11, 14:28, 39:04, 39:63, 40:166, 44:90, 54:01:01-54:01:02, 54:04-54:05N, 54:07-54:09, 54:11, 54:13, 54:15-54:19, 54:21-54:22, 54:24-54:26, 55:02:01-55:02:06, 55:04, 55:07, 55:14, 55:19-55:20, 55:22, 55:26-55:27, 55:30, 55:34-55:35, 55:39, 55:41-55:43, 55:46-55:48, 55:50, 55:56, 56:10, 56:12, 56:18-56:19N, 56:32																																								
*08:28, 08:35, 08:37																																								
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*08:70																																								
*08:71																																								
*13:01:01-13:01:06, 13:06-13:07N, 13:12-13:13, 13:17, 13:21-13:23, 13:25-13:26, 13:28-13:29, 13:36, 13:43, 13:50-13:52, 40:137, 44:08, 44:57, 44:60, 57:01:03, 57:04-57:05, 57:25-57:26, 57:32, 57:41, 57:43																																								
*13:04, 49:04																																								
*13:20																																								
*13:31, 39:36																																								
*13:39																																								
*13:41																																								
*13:46, 39:06:01-39:06:02, 39:34, 39:50, 39:57, 39:62, 39:64, 40:86, 40:159, 45:02, 49:05, 50:09, 59:03, 73:01-73:02																																								
*13:48, 40:05, 40:28																																								
*14:05, 18:14																																								
Well No.									1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4
HLA-B allele ^{2,3}	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8		

101. 516-24/04 – including *Taq* polymerase, IFU-01
 101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **94N**

Lot-specific information

4 5 5 5 5 5 5 5				5 5 5 6 6 6 6 6				6 6 6 6 6 7 7 7				7 7 7 7 7 7 7 8				8 8 8 8 8 8 8 8				8 9 9 9 9 9 9 9				9 9 9 9 9 9 9 9				Well No.			
9 0 1 2 3 4 5 6				7 8 9 0 1 2 3 4				5 6 7 8 9 0 1 2				3 4 5 6 7 8 9 0				1 2 3 4 5 6 7 8				9 0 1 2 3 4 5 6				HLA-B allele ^{2,3}							
																															*07:131, 13:03, 18:58, 35:01:28, 35:57, 38:30, 40:63, 40:92, 41:17, 44:10, 44:14, 44:45, 44:51, 44:62, 44:77, 44:82, 44:107, 44:123, 45:14, 48:25, 56:07, 57:11, 57:16, 57:45, 57:51, 58:01:10-58:01:11, 58:11, 59:04, 82:01-82:03, C*03:81, C*15:15
																															*08:01:01-08:01:10, 08:01:12-08:01:17, 08:04-08:05, 08:07-08:19N, 08:22, 08:24, 08:27, 08:29-08:34, 08:36, 08:38-08:39, 08:41-08:49, 08:51-08:53, 08:55, 08:57-08:65, 08:67N-08:69, 08:73-08:78, 08:80-08:88, 40:43, 45:06, 54:12, 55:12, 55:49
																															*08:01:11, 08:56, 55:03, 55:25
																															*08:21, 08:25
																															*08:26, 08:50, 14:11, 14:28, 39:04, 39:63, 40:166, 44:90, 54:01:01-54:01:02, 54:04-54:05N, 54:07-54:09, 54:11, 54:13, 54:15-54:19, 54:21-54:22, 54:24-54:26, 55:02:01-55:02:06, 55:04, 55:07, 55:14, 55:19-55:20, 55:22, 55:26-55:27, 55:30, 55:34-55:35, 55:39, 55:41-55:43, 55:46-55:48, 55:50, 55:56, 56:10, 56:12, 56:18-56:19N, 56:32
																															*08:28, 08:35, 08:37
																															*08:40
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																															*08:71
																															*13:01:01-13:01:06, 13:06-13:07N, 13:12-13:13, 13:17, 13:21-13:23, 13:25-13:26, 13:28-13:29, 13:36, 13:43, 13:50-13:52, 40:137, 44:08, 44:57, 44:60, 57:01:03, 57:04-57:05, 57:25-57:26, 57:32, 57:41, 57:43
																															*13:04, 49:04
																															*13:20
																															*13:31, 39:36
																															*13:39
																															*13:41
																															*13:46, 39:06:01-39:06:02, 39:34, 39:50, 39:57, 39:62, 39:64, 40:86, 40:159, 45:02, 49:05, 50:09, 59:03, 73:01-73:02
																															*13:48, 40:05, 40:28
																															*14:05, 18:14
4 5 5 5 5 5 5 5				5 5 5 6 6 6 6 6				6 6 6 6 6 7 7 7				7 7 7 7 7 7 7 8				8 8 8 8 8 8 8 8				8 9 9 9 9 9 9 9				9 9 9 9 9 9 9 9				Well No.			
9 0 1 2 3 4 5 6				7 8 9 0 1 2 3 4				5 6 7 8 9 0 1 2				3 4 5 6 7 8 9 0				1 2 3 4 5 6 7 8				9 0 1 2 3 4 5 6				HLA-B allele ^{2,3}							

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 94N

Lot-specific information

[illegible]

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 94N

Lot-specific information

[illegible]

101. 516-24/04 – including *Taq* polymerase, IFU-01
 101. 516-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: 94N

Lot-specific information

Well No.									1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4
HLA-B allele ^{2,3}	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	
*35:03:06, 35:15, 35:33, 35:35, 35:65Q, 35:88, 35:93, 35:96, 35:131, 35:157, 35:164, 35:188, 35:190, 51:10, 51:17-51:18, 51:31, 51:36, 51:81, 51:85, 51:93, 53:01:07, 53:07, 58:05, 58:27, 58:35, 81:03																																							
*35:05:01-35:05:02, 35:22, 35:51, 35:58, 35:72, 35:89, 35:97, 35:199, 53:14, 58:18										+											+																		
*35:08:01-35:08:05, 35:18, 35:61, 35:99-35:100, 35:105, 35:142, 35:156, 35:158, 35:172, 35:174, 35:176, 35:187, 35:192, 51:05, 51:54, 53:11, 53:16, 53:24, 58:22																					+							+											
*35:10, 35:13, 35:16, 35:28, 52:03, 52:10:01-52:10:02, 52:12, 52:19, 53:17:01-53:17:02																					+																		
*35:14:01-35:14:02, 35:62, 35:67, 35:102, 35:135, 35:163		+																			+																		
*35:29:01-35:29:02, 35:76, 35:136, 35:198																						+																	
*35:37, 51:37, 51:92								+														+																	
*35:43, 35:185		+																				+									+		+	+	+	+	+		
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*35:45																		+				+																	
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*35:50																						+																	
*35:66										+																			+										
*35:69																						+								+									
*35:71, 58:07																		+				+																	
*35:79		+																				+																	
*35:80																						+								+									
*35:86		+																																					
*35:110																						+																	
*35:115																						+																	
*35:117		+																				+																	
*35:161																						+																	
*35:186, 51:20, 53:23																						+																	
*37:01:01-37:01:05, 37:01:07-37:05, 37:09-37:21, 37:24-37:27, 37:29-37:33N, 40:185, 44:83, 44:134, 50:11																																							
*37:07																														+									
*37:22, 49:03																																							
*37:23																																							
*39:33								+														+								+									
*40:01:06												+																											
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*40:26												+										+																	
*40:51																																							
*40:52, 40:59, 48:23													+																										
*40:71, 44:135										+												+																	
*40:79, 40:190, 41:14																																							
*40:150																																							
Well No.									1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4
HLA-B allele ^{2,3}	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **94N**

Lot-specific information

4 5 5 5 5 5 5						5 5 5 6 6 6 6						6 6 6 6 6 7 7 7						7 7 7 7 7 7 7 8						8 8 8 8 8 8 8 8						8 9 9 9 9 9 9 9						Well No.																	
9 0 1 2 3 4 5 6						7 8 9 0 1 2 3 4						5 6 7 8 9 0 1 2						3 4 5 6 7 8 9 0						1 2 3 4 5 6 7 8						9 0 1 2 3 4 5 6						HLA-B allele ^{2,3}																	
						+																														*35:03:06, 35:15, 35:33, 35:35, 35:65Q, 35:88, 35:93, 35:96, 35:131, 35:157, 35:164, 35:188, 35:190, 51:10, 51:17-51:18, 51:31, 51:36, 51:81, 51:85, 51:93, 53:01:07, 53:07, 58:05, 58:27, 58:35, 81:03																	
						+																														*35:05:01-35:05:02, 35:22, 35:51, 35:58, 35:72, 35:89, 35:97, 35:199, 53:14, 58:18																	
						+																														*35:08:01-35:08:05, 35:18, 35:61, 35:99-35:100, 35:105, 35:142, 35:156, 35:158, 35:172, 35:174, 35:176, 35:187, 35:192, 51:05, 51:54, 53:11, 53:16, 53:24, 58:22																	
						+																								+						*35:10, 35:13, 35:16, 35:28, 52:03, 52:10:01-52:10:02, 52:12, 52:19, 53:17:01-53:17:02																	
						+																														*35:14:01-35:14:02, 35:62, 35:67, 35:102, 35:135, 35:163																	
						+																														*35:29:01-35:29:02, 35:76, 35:136, 35:198																	
						+																														*35:37, 51:37, 51:92																	
						+												W																		*35:43, 35:185																	
						+																														*35:44, 51:61																	
						+						+																								*35:45																	
						+																								+						*35:46, 58:36																	
						+																														*35:50																	
						+																														*35:66																	
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						+																																										*35:115					
						+						+																		+												*35:117											
						+																																										*35:161					
						+																																										*35:186, 51:20, 53:23					
																																				+						*37:01:01-37:01:05, 37:01:07-37:05, 37:09-37:21, 37:24-37:27, 37:29-37:33N, 40:185, 44:83, 44:134, 50:11											
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+																														+						+						*37:22, 49:03											
																																										+						*37:23					
																																																*39:33					
																																																*40:01:06					
																																																*40:12					
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																								+																								*40:51					
																																																*40:52, 40:59, 48:23					
																																																*40:71, 44:135					
+																														+																		*40:79, 40:190, 41:14					
																																																*40:150					
4 5 5 5 5 5 5						5 5 5 6 6 6 6 6						6 6 6 6 6 7 7 7						7 7 7 7 7 7 7 8						8 8 8 8 8 8 8 8						8 9 9 9 9 9 9 9						Well No.																	
9 0 1 2 3 4 5 6						7 8 9 0 1 2 3 4						5 6 7 8 9 0 1 2						3 4 5 6 7 8 9 0						1 2 3 4 5 6 7 8						9 0 1 2 3 4 5 6						HLA-B allele ^{2,3}																	

101. 516-24/04 – including *Taq* polymerase, IFU-01
 101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 94N

Lot-specific information

Well No.									1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
HLA-B allele ^{2,3}	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8			
*40:158																																									
*40:174																			+																						
*41:12, 54:02																																									
*42:09, C*07:68, C*07:140, C*07:151																													+												
*44:22, 44:105																																									
*44:43:01-44:43:02																		+																							
*44:144																		+																							
*45:09								+										+											+												
*46:01:01, 46:01:03-46:01:07, 46:04, 46:07N, 46:15N-46:16, 46:20, 46:22-46:23, 46:27- 46:28		+	+																																						
*46:01:02, 46:02, 46:05		+	+																																						
*46:03		+																																							
*46:06		+							+							+																									
*46:08		+																																							
*46:09		+	+																																						
*46:10		+	+																																						
*46:11		+							+																					+											
*46:12		+	+																																						
*46:13:01-46:13:03, 46:26		+							+																																
*46:14		+	+																																						
*46:17		+	+																																						
*46:18		+							+																																
*46:19		+																																							
*46:21:01-46:21:02		+							+																																
*46:24		+	+																																						
*46:25		+																																							
*46:29		+	+																																						
*46:30		+	+																																						
*48:12, 48:14										+																															
*48:19																																									
*51:01:01-51:01:18, 51:01:20- 51:01:30, 51:01:33-51:02:02, 51:02:04-51:04, 51:06:02- 51:07:02, 51:11N-51:12, 51:14, 51:22-51:24:04, 51:26- 51:28, 51:30, 51:32-51:33, 51:35, 51:38-51:39, 51:41N, 51:43, 51:46, 51:48-51:53, 51:55-51:58, 51:60, 51:65- 51:71, 51:74-51:80, 51:83- 51:84, 51:86, 51:88-51:89, 51:95-51:96, 51:98N-51:100, 51:102-51:107, 51:109- 51:114, 51:116-51:121, 51:123-51:125, 51:127- 51:131, 52:02, 52:16, 52:18, 58:08:01-58:08:02, 78:02:01- 78:02:02																																									
*51:01:19																																									
*51:01:32, 51:16, 51:21, 51:34, 51:101																																									
*51:06:01																																									
*51:13:01-51:13:02, 51:63								+																																	
*51:29																																									
*51:45																																									
*51:59																																									
*51:62																																									
Well No.									1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	
HLA-B allele ^{2,3}	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8			

101. 516-24/04 – including *Taq* polymerase, IFU-01
 101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

4 5 5 5 5 5 5						5 5 5 6 6 6 6						6 6 6 6 6 7 7 7						7 7 7 7 7 7 8						8 8 8 8 8 8 8						8 9 9 9 9 9 9						Well No.	
9 0 1 2 3 4 5 6						7 8 9 0 1 2 3 4						5 6 7 8 9 0 1 2						3 4 5 6 7 8 9 0						1 2 3 4 5 6 7 8						9 0 1 2 3 4 5 6						HLA-B allele ^{2,3}	
												+						+																		*40:158	
																		+																		*40:174	
																								+												*41:12, 54:02	
																																				*42:09, C*07:68, C*07:140, C*07:151	
						+																														*44:22, 44:105	
																																				*44:43:01-44:43:02	
																																				*44:144	
																																				*45:09	
																																				*46:01:01, 46:01:03-46:01:07, 46:04, 46:07N, 46:15N-46:16, 46:20, 46:22-46:23, 46:27-46:28	
																																				*46:01:02, 46:02, 46:05	
																														+						*46:03	
																																				*46:06	
												+																								*46:08	
																																				*46:09	
																																				*46:10	
																																				*46:11	
																																				*46:12	
																								+												*46:13:01-46:13:03, 46:26	
																																				*46:14	
																																				*46:17	
																																				*46:18	
																																				*46:19	
																																				*46:21:01-46:21:02	
																																				*46:24	
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																																				*46:29	
																														+						*46:30	
												+																								*48:12, 48:14	
																																				*48:19	
						+												+																		*51:01:01-51:01:18, 51:01:20-51:01:30, 51:01:33-51:02:02, 51:02:04-51:04, 51:06:02-51:07:02, 51:11N-51:12, 51:14, 51:22-51:24:04, 51:26-51:28, 51:30, 51:32-51:33, 51:35, 51:38-51:39, 51:41N, 51:43, 51:46, 51:48-51:53, 51:55-51:58, 51:60, 51:65-51:71, 51:74-51:80, 51:83-51:84, 51:86, 51:88-51:89, 51:95-51:96, 51:98N-51:100, 51:102-51:107, 51:109-51:114, 51:116-51:121, 51:123-51:125, 51:127-51:131, 52:02, 52:16, 52:18, 58:08:01-58:08:02, 78:02:01-78:02:02	
						+												W																		*51:01:19	
						+												+																		*51:01:32, 51:16, 51:21, 51:34, 51:101	
						+												+																		*51:06:01	
						+												+																		*51:13:01-51:13:02, 51:63	
						+												+																		*51:29	
						+																														*51:45	
						+												+																		*51:59	
						+												+																		*51:62	
4 5 5 5 5 5 5						5 5 5 6 6 6 6 6						6 6 6 6 6 6 7 7 7						7 7 7 7 7 7 8						8 8 8 8 8 8 8						8 9 9 9 9 9 9						Well No.	
9 0 1 2 3 4 5 6						7 8 9 0 1 2 3 4						5 6 7 8 9 0 1 2						3 4 5 6 7 8 9 0						1 2 3 4 5 6 7 8						9 0 1 2 3 4 5 6						HLA-B allele ^{2,3}	

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 94N

Lot-specific information

[illegible]

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 94N

Lot-specific information

[illegible]

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

[illegible]

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*15 subtyping. .

In addition, wells number 4, 11, 13, 19, 22, 36, 39, 46, 52-54, 59-60, 64, 67, 74, 79 and 88 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

²The sequence of B*150105 has been renamed to B*15:120.

The sequence of B*1522 has been named in error and identical to B*35:43.

The sequence of B*1541 has been shown to be identical to B*15:39.

The sequence of B*1559 has been renamed B*35:44.

The sequence of B*9530 has been renamed to B*15:27:02.

The B*15:100 allele has never been assigned.

³HLA-B*15:15 alleles in bold lettering are listed as confirmed alleles on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.8.0, April 2012.

⁴The B*15:180 and B*56:03 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution primer set.

The B*15:120 and 15:228 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 60.

⁶The B*15:166 and 15:193 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 86.

The B*15:169 and 15:225 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 87.

The B*15:208 and 15:230 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 70.

101. 516-24/04 – including *Taq* polymerase, IFU-01
 101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **94N**

Lot-specific information

4 5 5 5 5 5 5 5				5 5 5 6 6 6 6 6				6 6 6 6 6 7 7 7				7 7 7 7 7 7 7 8				8 8 8 8 8 8 8 8				8 9 9 9 9 9 9 9				Well No.
9 0 1 2 3 4 5 6				7 8 9 0 1 2 3 4				5 6 7 8 9 0 1 2				3 4 5 6 7 8 9 0				1 2 3 4 5 6 7 8				9 0 1 2 3 4 5 6				HLA-B Allele ^{2,3}
+																								A*68:56
																								C*03:48
																								C*03:87, C*05:27, C*05:39
																								C*06:33
																								C*07:02:30
																								C*07:46
																								C*07:186
																								C*07:213
																								C*08:16:02
																								C*12:36
4 5 5 5 5 5 5 5				5 5 5 6 6 6 6 6				6 6 6 6 6 7 7 7				7 7 7 7 7 7 7 8				8 8 8 8 8 8 8 8				8 9 9 9 9 9 9 9				Well No.
9 0 1 2 3 4 5 6				7 8 9 0 1 2 3 4				5 6 7 8 9 0 1 2				3 4 5 6 7 8 9 0				1 2 3 4 5 6 7 8				9 0 1 2 3 4 5 6				HLA-B Allele ^{2,3}

⁹Primer solution 10: Specific PCR fragment of 300 bp in the B*15:37-15:38:02 and 15:185 alleles. Specific PCR fragment of 520 bp in the B*15:06, 15:27:01-15:27:03, 15:84, 15:109, 15:112 and 15:195 alleles.

Primer solution 13: Specific PCR fragment of 395 bp in the B*15:09-15:10:02, 15:18:01-15:18:04, 15:21, 15:23, 15:37, 15:44, 15:51-15:52, 15:66, 15:72, 15:80, 15:90, 15:93, 15:99, 15:108, 15:114-15:115, 15:119, 15:124, 15:133-15:134, 15:153, 15:161, 15:176, 15:186, 15:189, 15:197-15:198, 15:200, 15:221, 15:226N, 15:229, 15:238 and 15:243 alleles. Specific PCR fragment of 435 bp in the B*15:79N allele.

Primer mix 14: Specific PCR fragment of 465 bp in B*15:09-15:10:02, 15:30, 15:37, 15:45, 15:48, 15:63, 15:83, 15:90, 15:99, 15:150, 15:188 and 15:243 alleles. Specific PCR fragment of 515 bp in the B*15:110 allele.

Primer mix 16: Specific PCR fragment of 120 bp in the B*15:116 and 15:124 and the B*40:52, 40:59, 46:06 and 48:23 alleles. Specific PCR fragment of 190 bp in the B*15:12 and 15:19 alleles.

Primer mix 20: Specific PCR fragment of 360 bp in B*15:105 allele. Specific PCR fragment of 505 bp in the B*15:16:01-15:16:03, 15:34, 15:62, 15:67, 15:85-15:86, 15:95, 15:137, 15:194 and 15:222 and the B*46:11 and 46:18 alleles.

Primer solution 21: Specific PCR fragment of 205 bp in the B*15:16:01-15:16:03, 15:67, 15:95 and 15:222 alleles. Specific PCR fragment of 425 bp in the B*15:43 allele.

Primer mix 24: Specific PCR fragment of 205 bp in the B*15:26N allele. Specific PCR fragment of 300 bp in the B*15:33, 15:72, 15:78:01-15:78:03, 15:107, 15:116, 15:141, 15:150, 15:188 and 15:209N and the B*46:06 alleles.

Primer solution 25: Specific PCR fragment of 315 bp in the B*15:46, 15:53, 15:106 and 15:212 alleles. Specific PCR fragment of 385 bp in the B*15:28 allele.

Primer solution 30: Specific PCR fragment of 320 bp in the B*15:40, 15:47:01-15:47:02, 15:49, 15:52, 15:114, 15:117, 15:124, 15:138, 15:238 and 15:241 and the B*46:06 and 46:30 alleles. Specific PCR fragment of 355 bp in the B*15:75 allele.

Primer mix 31: Specific PCR fragment of 320 bp in the B*15:44, 15:50, 15:69, 15:83, 15:86, 15:93, 15:121, 15:186, 15:188, 15:199, 15:218Q and 15:224 and the B*46:03, 46:18, 46:21:01-46:21:02 and 46:29 alleles. Specific PCR fragment of 395 bp in the B*15:114 and 15:153 alleles.

Primer mix 32: Specific PCR fragment of 275 bp in the B*15:196 allele. Specific PCR fragment of 350 bp in the B*15:190N allele. Specific PCR fragment of 380 bp in the B*15:48, 15:108, 15:136 and 15:235 and the B*46:19 alleles.

Primer solution 33: Specific PCR fragment of 200 bp in the B*15:118 allele. Specific PCR fragment of 255 bp in the B*15:18:03, 15:42, 15:73, 15:86 and 15:224 and the B*46:11 and 46:18 alleles. Specific PCR fragment of 340 bp in the B*15:192 allele.

Primer solution 36: Specific PCR fragment of 360 bp in the B*15:82 allele. Specific PCR fragment of 435 bp in the B*15:36, 15:89 and 15:115 alleles.

Primer solution 39: Specific PCR fragment of 305 bp in the B*15:60 and in the C*07:213 allele. Specific PCR fragment of 325 bp in the B*15:119 allele. Specific PCR fragment of 380 bp in the B*15:95 allele.

Primer solution 40: Specific PCR fragment of 220 bp in the B*15:71 and B*15:175 alleles. Specific PCR fragment of 425 bp in the B*15:13:01-15:13:02, 15:16:01-15:17:02, 15:23-15:24, 15:67, 15:95, 15:157, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222 and 15:230 alleles.

101. 516-24/04 – including *Taq* polymerase, IFU-01
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Primer mix 42: Specific PCR fragment of 345 bp in the B*15:02:01-15:03:03, 15:05:01-15:06, 15:09-15:10:02, 15:13:01-15:13:02, 15:16:01-15:18:04, 15:21, 15:23, 15:25:01-15:25:03, 15:29, 15:31, 15:36-15:37, 15:39:01-15:40, 15:44, 15:48, 15:52, 15:55, 15:61-15:62, 15:64, 15:67, 15:69, 15:72, 15:74, 15:80, 15:88^w, 15:89-15:91, 15:93, 15:95, 15:98, 15:103, 15:106-15:108, 15:112, 15:114-15:115, 15:119, 15:121, 15:123-15:124, 15:127, 15:131-15:134, 15:136, 15:138-15:139, 15:151, 15:153, 15:155-15:156, 15:158, 15:161-15:162, 15:170, 15:173, 15:176^w, 15:177, 15:185-15:186, 15:188, 15:194-15:198, 15:200^w, 15:204, 15:208, 15:210, 15:213-15:214, 15:216, 15:219-15:220, 15:222-15:223, 15:226N, 15:229-15:230, 15:235, 15:238, 15:240 and 15:242-15:243 and the B*46:06, 46:08, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02 and 46:26 alleles. Specific PCR fragment of 460 bp in the B*15:73 allele. Specific PCR fragments of 345 and 460 bp in the B*15:86 and 15:224 and the B*46:11 and 46:18 alleles.

Primer mix 50: Specific PCR fragment of 85 bp in the B*15:67 and the B*35:110 and in the A*68:56 alleles. Specific PCR fragment of 185 bp in the B*15:206 allele.

Primer mix 54: Specific PCR fragment of 250 bp in the B*15:187 and in the C*12:36 alleles. Specific PCR fragment of 410 bp in the B*15:97 allele.

Primer mix 55: Specific PCR fragment of 175 bp in the B*15:214 and the B*07:120, 40:150 and 57:29 alleles. Specific PCR fragment of 250 bp in the B*15:102 allele.

Primer mix 56: Specific PCR fragment of 70 bp in the B*15:103 allele. Specific PCR fragment of 260 bp in the B*15:227 and the B*27:69 and 37:23 alleles.

Primer mix 59: Specific PCR fragment of 230 bp in the B*15:191 and 15:234 and in the C*06:33 alleles. Specific PCR fragment of 375 bp in the B*15:198 and the B*35:161 alleles. Specific PCR fragment of 420 bp in the B*15:94N allele.

Primer mix 60: Specific PCR fragment of 165 bp in the B*15:20 and 15:228 and the B*35:01:01:01-35:01:27, 35:01:29-35:30, 35:32:01-35:42:02, 35:44-35:56, 35:58-35:59, 35:61-35:72, 35:74-35:78, 35:80-35:86, 35:88-35:184, 35:186-35:200, 48:02:01-48:02:02, 51:01:01-51:24:04, 51:26-51:41N, 51:43-51:46, 51:48-51:131, 52:01:01:01-52:06:02, 52:08-52:29, 53:01:01-53:27, 56:05:01-56:05:02, 56:21, 58:01:01-58:01:09, 58:02, 58:04-58:10N, 58:12-58:19, 58:21-58:36, 78:01:01-78:07, 81:03 and 83:01² alleles. Specific PCR fragment of 385 bp in the B*15:120 allele.

Primer mix 61: Specific PCR fragment of 160 bp in the B*15:175 allele. Specific PCR fragment of 205 bp in the B*15:125 and the B*44:22 and 44:105 alleles.

Primer mix 67: Specific PCR fragment of 265 bp in the B*15:53, 15:183 and 15:212 and the B*46:10 alleles. Specific PCR fragment of 300 bp in the B*15:132 allele.

Primer mix 70: Specific PCR fragment of 90 bp in the B*15:208 allele. Specific PCR fragment of 185 bp in the B*15:138, 15:230 and 15:241 and the B*07:68:01-07:68:03, 18:35, 35:66, 40:77, 40:87:01-40:87:02, 40:121, 40:158, 44:150, 48:12, 48:14 and 48:26 alleles.

Primer mix 71: Specific PCR fragment of 315 bp in the B*15:205 allele. Specific PCR fragment of 400 bp in the B*15:139 allele.

Primer mix 72: Specific PCR fragment of 100 bp in the B*15:226N allele. Specific PCR fragment of 295 bp in the B*15:140 allele. Specific PCR fragment of 390 bp in the B*15:201 allele.

Primer mix 73: Specific PCR fragment of 110 bp in the B*15:142 and the B*07:29, 08:01:11, 08:56, 51:68 and 57:49 and in the C*07:02:30 alleles. Specific PCR fragment of 155 bp in the B*15:09, 15:30^w, 15:42, 15:58^w, 15:73^w, 15:150^w, 15:229 and 15:243 and the B*07:05:01-07:06, 07:32, 07:34, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 08:20, 08:79, 13:16, 13:20, 13:31^w, 13:48, 14:13, 27:20, 27:24, 35:44^w, 38:10, 38:32, 39:35, 39:36^w, 40:05, 40:15-40:16, 40:23, 40:26, 40:28, 40:51, 40:95, 40:148, 40:158, 40:161, 40:174, 40:183, 48:05, 48:15, 51:01:01-51:01:18, 51:01:19^w, 51:01:20-51:01:30, 51:01:32-51:02:02, 51:02:04-51:04, 51:06:01-51:07:02, 51:11N-51:14, 51:16, 51:21-51:24:04, 51:26-51:30, 51:32-51:35, 51:38-51:39, 51:41N, 51:43, 51:46, 51:48-51:53, 51:55-51:60, 51:61^w, 51:62-51:71, 51:74-51:80, 51:82-51:84, 51:86, 51:88-51:89, 51:95-51:96, 51:98N-51:107, 51:109-51:114, 51:116-51:121, 51:123-51:131, 52:01:01:01-52:01:10, 52:02, 52:04-52:09, 52:11, 52:13-52:18, 52:20, 52:21^w, 52:22-52:25, 52:27-52:29, 54:20, 55:01:01-55:01:09, 55:03, 55:05, 55:09, 55:11, 55:15, 55:17, 55:21^w, 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:52-55:55N, 56:05:01-56:06, 56:21, 56:25, 57:57, 58:08:01-58:08:02, 78:01:01-78:03 and 78:05-78:07 and in the C*15:24 alleles.

Primer mix 75: Specific PCR fragment of 280 bp in the B*15:146 allele. Specific PCR fragment of 390 bp in the B*15:201 allele.

101. 516-24/04 – including *Taq* polymerase, IFU-01
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Primer mix 79: Specific PCR fragment of 215 bp in the B*15:182N allele. Specific PCR fragment of 420 bp in the B*15:148 allele.

Primer mix 84: Specific PCR fragment of 155 bp in the B*15:167 allele. Specific PCR fragment of 195 bp in the B*15:211 allele. Specific PCR fragment of 235 bp in the B*15*15:197 and 15:215 and the B*35:117 alleles.

Primer mix 85: Specific PCR fragment of 340 bp in the B*15:157 allele. Specific PCR fragment of 395 bp in the B*15:76 and 15:101 alleles. Specific PCR fragment of 420 bp in the B*15:164 allele.

Primer mix 86: Specific PCR fragment of 230 bp in the B*15:166 allele. Specific PCR fragment of 400 bp in the B*15:193 allele.

Primer mix 87: Specific PCR fragment of 85 bp in the B*15:71, 15:175, 15:204 and 15:225 and the B*18:29, 35:50, 37:22, 41:12, 46:14, 49:03, 54:02, 55:16, 56:35, 57:39 alleles. Specific PCR fragment of 295 bp in the B*15:169 allele.

Primer mix 88: Specific PCR fragment of 240 bp in the B*15:171 allele. Specific PCR fragment of 445 bp in the B*15:158 allele.

Primer mix 89: Specific PCR fragment of 370 bp in the B*15:160 allele. Specific PCR fragment of 420 bp in the B*15:94N allele.

Primer mix 90: Specific PCR fragment of 95 bp in the B*15:202, 15:239, 18:12, 35:10, 35:13, 35:16, 35:28, 35:69, 35:80, 37:01:01-37:01:05, 37:01:07-37:05, 37:07, 37:09-37:27, 37:29-37:33N, 40:185, 44:83, 44:134, 49:03, 52:01:01:01-52:01:11, 52:03-52:15, 52:17, 52:19-52:29, 53:17:01-53:17:02, 78:05-78:06 alleles. Specific PCR fragment of 195 bp in the B*15:173, 18:63, 50:11 alleles.

Primer mix 91: Specific PCR fragment of 135 bp in the B*15:184 and 15:203 alleles. Specific PCR fragment of 325 bp in the B*15:170 allele.

Primer mix 94: Specific PCR fragment of 285 bp in the B*15:123 allele. Specific PCR fragment of 325 bp in the B*15:178 allele.

Primer mix 95: Specific PCR fragment of 340 bp in the B*15:181N allele. Specific PCR fragment of 395 bp in the B*15:40, 15:47:01-15:47:02, 15:49, 15:52, 15:114, 15:117, 15:124, 15:138, 15:238 and 15:241 and the B*46:06 and 46:30 alleles.

¹⁰This lot of the HLA-B*15 subtyping kit cannot distinguish the B*15:03:01-15:03:02 alleles and the B*15:220 allele.

w', might be weakly amplified.

'?', nucleotide sequence information not available for the primer matching sequence.

101. 516-24/04 – including *Taq* polymerase, IFU-01
 101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

Primers

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of PCR product(s)	395	290	120	180	385	525	330	105	365	300	140	405
5'-primer(s) ¹	45 5'-ggA 3'	45 5'-ggA 3'	463 5'-TgA 3'	45 5'-ggA 3'	45 5'-ggA 3'	355 5'-TCA 3'	45 5'-ggA 3'	357 5'-Tgg 3'	2 nd I 5'-CAA 3'	360 5'-CAC 3'	363 5'-AgC 3'	45 5'-ggA 3'
										368 5'-gTT 3'		
										583 5'-gAC 3'		
3'-primer(s) ²	272 5'-Tgg 3'	165 5'-Tgg 3'	538 5'-CCA 3'	1 st I 5'-gAC 3'	259 5'-gTT 3'	3 rd I 5'-ATC 3'	206 5'-CCT 3'	419 5'-Cgg 3'	527 5'-CCA 3'	3rd I 5'-ATC 3'	463 5'-gCT 3'	272 5'-TgA 3'
			545 5'-AgA 3'					419 5'-CgA 3'				287 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 PCR product(s)	395	465	105	120	435	195	395	360	205	190	230	205
5'-primer(s) ¹	45 5'-ggA 3'	368 5'-gTg 3'	369 5'-TAC 3'	419 5'-gTC 3'	45 5'-ggA 3'	419 5'-gTC 3'	45 5'-ggA 3'	379 5'-ACC 3'	45 5'-ggA 3'	409 5'-ggC 3'	821 5'-gCT 3'	2 nd I 5'-CAA 3'
		419 5'-gTA 3'						523 5'-CCT 3'				
3'-primer(s) ²	272 5'-TgC 3'	3 rd I 5'-ATC 3'	435 5'-TCT 3'	499 5'-ggA 3'	309 5'-ATC 3'	572 5'-gCg 3'	266 5'-TCC 3'	3 rd I 5'-ATC 3'	83 5'-TgA 3'	559 5'-CAg 3'	916 5'-gAT 3'	369 5'-CCT 3'
	311 5'-ggT 3'			570 5'-CCg 3'			278 5'-TgA 3'		301 5'-gTC 3'			463 5'-gCg 3'
												471 5'-gTT 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of PCR product(s)	315	230	115	240	255	320	320	275	200	160	165	360
5'-primer(s) ¹	45 5'-ggA 3'	368 5'-gTC 3'	485 5'-CAA 3'	362 5'-gAC 3'	369 5'-TAC 3'	526 5'-gTC 3'	488 5'-ggg 3'	2 nd I 5'-CAA 3'	2 nd I 5'-CAA 3'	419 5'-gTC 3'	412 5'-ATA 3'	45 5'-ggA 3'
						560 5'-CgA 3'	560 5'-CAC 3'					
3'-primer(s) ²	193 5'-CgT 3'	558 5'-Agg 3'	559 5'-CAG 3'	559 5'-CAG 3'	583 5'-gTg 3'	3rd I 5'-ATC 3'	3 rd I 5'-ATC 3'	437 5'-AAA 3'	362 5'-TCA 3'	538 5'-gTC 3'	538 5'-CCA 3'	238 5'-CCT 3'
	263 5'-gTA 3'							513 5'-TCT 3'	420 5'-gCT 3'			309 5'-gTg 3'
								544 5'-ggT 3'	505 5'-gCT 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 PCR product(s)	170	225	305	220	465	345	525	515	475	355	320	420
5'-primer(s) ¹	409 5'-ggC 3'	106 5'-CCA 3'	45 5'-ggA 3'	45 5'-ggA 3'	419 5'-gTC 3'	420 5'-TTA 3'	357 5'-Tgg 3'	369 5'-TAC 3'	409 5'-ggC 3'	527 5'-TgA 3'	560 5'-CCT 3'	463 5'-TgA 3'
						539 5'-gCT 3'						
3'-primer(s) ²	538 5'-CCg 3'	292 5'-gTC 3'	181 5'-gTT 3'	97 5'-gTg 3'	3 rd I 5'-ATC 3'	3 rd I 5'-ATC 3'	3 rd I 5'-ATC 3'	3 rd I 5'-ATC 3'	3 rd I 5'-ATC 3'	3 rd I 5'-ATC 3'	3 rd I 5'-ATC 3'	3 rd I 5'-ATC 3'
			203 5'-CTg 3'	302 5'-ggT 3'								
			257 5'-CCT 3'									
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101. 516-24/04 – including *Taq* polymerase, IFU-01
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Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of	135	85	135	345	210	250	175	70	345	170	230	165
PCR		185				410	250	260			375	385
product(s)											420	
5'-primer(s) ¹	209 5'-ggC 3'	463 5'-TgA 3'	106 5'-CCA 3'	45 5'-ggA 3'	419 5'-gTC 3'	45 5'-ggA 3'	3 rd I 5'-Agg 3'	25 5'-CCg 3'	539 5'-gTg 3'	145 5'-CAA 3'	45 5'-ggA 3'	45 5'-ggA 3'
								652 5'-CCA 3'			673 5'-CCA 3'	652 5'-CCg 3'
3'-primer(s) ²	302 5'-ggT 3'	506 5'-TgT 3'	200 5'-TCA 3'	221 5'-ATA 3'	589 5'-CTT 3'	127 5'-CTg 3'	704 5'-CCA 3'	56 5'-TCg 3'	3 rd I 5'-ATC 3'	272 5'-Tgg 3'	107 5'-ACT 3'	261 5'-gTA 3'
		608 5'-gCC 3'	200 5'-TCA 3'			288 5'-gTg 3'	779 5'-CTA 3'	872 5'-TCA 3'			295 5'-TCA 3'	774 5'-ggT 3'
											916 5'-gAT 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	160	105	175	365	520	435	265	215	130	90	315	110
PCR	205						300			185	400	295
product(s)												390
5'-primer(s) ¹	106 5'-CCg 3'	363 5'-AgC 3'	419 5'-gTC 3'	45 5'-ggA 3'	363 5'-AAT 3'	209 5'-ggC 3'	45 5'-ggA 3'	419 5'-gTC 3'	209 5'-ggC 3'	463 5'-TgA 3'	45 5'-ggA 3'	261 5'-AAC 3'
	151 5'-gCC 3'					209 5'-ggC 3'						662 5'-CCT 3'
												754 5'-ACg 3'
3'-primer(s) ²	272 5'-Tgg 3'	425 5'-CgC 3'	554 5'-CCg 3'	242 5'-CCA 3'	3 rd I 5'-ATC 3'	353 5'-TgA 3'	142 5'-ggT 3'	593 5'-CgC 3'	299 5'-TCA 3'	510 5'-CAA 3'	189 5'-gCT 3'	331 5'-CTA 3'
						362 5'-TCA 3'	177 5'-AAA 3'			605 5'-gCT 3'	277 5'-ggC 3'	916 5'-gAT 3'
Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of	110	75	280	475	195	385	215	85	395	80	210	155
PCR	155		390				420					195
product(s)												235
5'-primer(s) ¹	97 5'-TCg 3'	523 5'-CCg 3'	662 5'-CCT 3'	409 5'-ggT 3'	3 rd I 5'-Agg 3'	495 5'-CAC 3'	45 5'-ggA 3'	267 5'-Ag 3'	45 5'-ggA 3'	106 5'-CCA 3'	322 5'-gCC 3'	363 5'-AgT 3'
	412 5'-ATA 3'		769 5'-Agg 3'									404 5'-CCT 3'
												446 5'-CgT 3'
3'-primer(s) ²	165 5'-Tgg 3'	559 5'-Cag 3'	916 5'-gAT 3'	3 rd I 5'-ATC 3'	723 5'-Tgg 3'	3 rd I 5'-ATC 3'	93 5'-AAC 3'	311 5'-ggT 3'	272 5'-TgT 3'	146 5'-CCg 3'	3 rd I 5'-TCg 3'	559 5'-Cag 3'
	527 5'-CCT 3'						296 5'-CTT 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	96
Length of	340	230	85	240	370	95	135	155	295	285	340	185
PCR	395	400	295	445	420	195	325			325	395	
product(s)	420											
5'-primer(s) ¹	45 5'-ggA 3'	2 nd I 5'-CAA 3'	97 5'-TCC 3'	45 5'-ggA 3'	45 5'-ggA 3'	206 5'-gAC 3'	45 5'-ggA 3'	463 5'-TgA 3'	45 5'-ggA 3'	2 nd I 5'-CAA 3'	2 nd I 5'-CAA 3'	47 5'-AgT 3'
			2 nd I 5'-CAA 3'			463 5'-TgA 3'	365 5'-gAC 3'			767 5'-ggg 3'		463 5'-TgA 3'
							376 5'-gCA 3'					
3'-primer(s) ²	218 5'-gCA 3'	394 5'-gCT 3'	142 5'-TgC 3'	118 5'-gCT 3'	247 5'-ATg 3'	259 5'-CTC 3'	203 5'-TCT 3'	578 5'-TgT 3'	173 5'-TCC 3'	487 5'-CgT 3'	502 5'-CTA 3'	106 5'-CAT 3'
	272 5'-TgT 3'	565 5'-CAT 3'	457 5'-gTA 3'	323 5'-AgA 3'	295 5'-TCA 3'	616 5'-CgT 3'	463 5'-gCT 3'			916 5'-gAT 3'	559 5'-CTC 3'	605 5'-gCA 3'
	296 5'-CTg 3'											
Well No.	85	86	87	88	89	90	91	92	93	94	95	96

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **94N**

Lot-specific information

¹The nucleotide position, in the 1st, 2nd, 3rd or 4th exons or 2nd or 3rd intron, 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. 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.

²The nucleotide position, in the 2nd, 3rd or 5th exons or the 1st or 3rd intron, 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. We assume that the B*15- and B*46-specific sequence motifs in the 2nd and 3rd intron are conserved within the HLA-B*15 and HLA-B*46 groups of alleles.

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 94N

Lot-specific information

[illegible]

101. 516-24/04 – including *Taq* polymerase, IFU-01
 101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **94N**

Lot-specific information

CELL LINE VALIDATION SHEET					Well															
HLA-B*15 SSP subtyping kit																				
				Prod. No.:	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
					200849917	200849918	200849919	200849920	200967221	200849922	200849923	201184024	200849925	200849926	200849927	200849928	200849929	200849930	200849931	201184032
	IHWC cell line	B*																		
1	9001 SA	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*52:01	*73:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*52:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*15:10	*53:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*37:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*39:01	*51:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
8	9025 DEU	*35:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*54:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*44:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*57:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*27:05			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*15:01	*15:20		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*08:01	*55:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*14:01	*56:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
20	9059 SLE005	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*15:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*35:03			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*40:02	*56:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*58:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:05	*51:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*44:02	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*44:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*42:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
32	9297 HAG	*41:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*44:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*15:01	*35:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*15:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*08:01	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*13:02	*46:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*46:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*46:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*42:01	*50:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*51:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*35:01	*44:03		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-

101. 516-24/04 – including *Taq* polymerase, IFU-01
 101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **94N**

Lot-specific information

CELL LINE VALIDATION SHEET																							
HLA-B*15 SSP subtyping kit																							
						Well																	
						33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
					Prod. No.:	201184033	200849934	200849935	200967236	200849937	200849938	200849939	200967240	200849941	200849942	200849943	200967244	200967245	200849946	200849947	200849948		
	IHWC cell line		B*																				
1	9001	SA	*07:02			-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-		
2	9280	LK707	*52:01	*73:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3	9011	E4181324	*52:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	9275	GU373	*15:10	*53:01		-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-		
5	9009	KAS011	*37:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
6	9353	SM	*39:01	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
7	9020	QBL	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
8	9025	DEU	*35:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
9	9026	YAR	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
10	9107	LKT3	*54:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-		
11	9051	PITOUT	*44:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
12	9052	DBB	*57:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
13	9004	JESTHOM	*27:05			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
14	9071	OLGA	*15:01	*15:20		-	-	-	-	-	-	-	-	+	+	-	+	+	+	+	+		
15	9075	DKB	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
16	9037	SWEIG007	*40:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
17	9282	CTM3953540	*08:01	*55:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-		
18	9257	32367	*14:01	*56:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-		
19	9038	BM16	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
20	9059	SLE005	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
21	9064	AMALA	*15:01			-	-	-	-	-	-	-	-	+	-	-	+	+	+	+	+		
22	9056	KOSE	*35:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
23	9124	IHL	*40:02	*56:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-		
24	9035	JBUSH	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
25	9049	IBW9	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
26	9285	WT49	*58:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
27	9191	CH1007	*07:05	*51:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-		
28	9320	BEL5GB	*44:02	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
29	9050	MOU	*44:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
30	9021	RSH	*42:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
31	9019	DUCAF	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
32	9297	HAG	*41:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
33	9098	MT14B	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
34	9104	DHIF	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
35	9302	SSTO	*44:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
36	9024	KT17	*15:01	*35:01		-	-	-	-	-	-	-	-	+	-	-	+	+	+	+	+		
37	9065	HHKB	*07:02			-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-		
38	9099	LZL	*15:01			-	-	-	-	-	-	-	-	+	-	-	+	+	+	+	+		
39	9315	CML	*08:01	*27:05		-	-	-	-	-	W	-	-	-	-	-	-	-	-	-	-		
40	9134	WHONP199	*13:02	*46:01		-	-	-	-	-	+	-	-	+	-	-	+	+	+	+	+		
41	9055	H0301	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
42	9066	TAB089	*46:01			-	-	-	-	-	+	-	-	+	-	-	+	+	+	+	+		
43	9076	T7526	*46:01			-	-	-	-	-	+	-	-	+	-	-	+	+	+	+	+		
44	9057	TEM	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
45	9239	SHJO	*42:01	*50:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
46	9013	SCHU	*07:02			-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-		
47	9045	TUBO	*51:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
48	9303	TER-ND	*35:01	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

101. 516-24/04 – including *Taq* polymerase, IFU-01
 101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **94N**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*15 SSP subtyping kit																				
					Well															
				Prod. No.:	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
					201203449	201203450	200967251	201203452	200849953	201184054	201203455	201203456	200849957	200849958	201184059	201203460	200967261	200849962	200849963	200849964
	IHCW cell line		B*																	
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
23	9124	IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
27	9191	CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-

101. 516-24/04 – including *Taq* polymerase, IFU-01
 101. 516-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **94N**

Lot-specific information

CELL LINE VALIDATION SHEET																						
HLA-B*15 SSP subtyping kit																						
					Well																	
					Prod. No.:	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
						200849965	200967266	201184067	200849968	200849969	201184070	201184071	201203472	201203473	200849974	201184075	200849976	200849977	200849978	201203479	200967280	
	IHCW cell line		B*																			
1	9001	SA	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280	LK707	*52:01		*73:01	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
3	9011	E4181324	*52:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
4	9275	GU373	*15:10		*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	9009	KAS011	*37:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	9353	SM	*39:01		*51:01	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
7	9020	QBL	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	9025	DEU	*35:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	9026	YAR	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107	LKT3	*54:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	9051	PITOUT	*44:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052	DBB	*57:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004	JESTHOM	*27:05			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071	OLGA	*15:01		*15:20	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	9075	DKB	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037	SWEIG007	*40:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	9282	CTM3953540	*08:01		*55:01	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
18	9257	32367	*14:01		*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19	9038	BM16	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	9059	SLE005	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21	9064	AMALA	*15:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22	9056	KOSE	*35:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23	9124	IHL	*40:02		*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24	9035	JBUSH	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	9049	IBW9	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26	9285	WT49	*58:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	9191	CH1007	*07:05		*51:01	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
28	9320	BEL5GB	*44:02		*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
29	9050	MOU	*44:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021	RSH	*42:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
31	9019	DUCAF	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32	9297	HAG	*41:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
33	9098	MT14B	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	9104	DHIF	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	9302	SSTO	*44:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	9024	KT17	*15:01		*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
37	9065	HHKB	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
38	9099	LZL	*15:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
39	9315	CML	*08:01		*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
40	9134	WHONP199	*13:02		*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	9055	H0301	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
42	9066	TAB089	*46:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
43	9076	T7526	*46:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	9057	TEM	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	9239	SHJO	*42:01		*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
46	9013	SCHU	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	9045	TUBO	*51:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
48	9303	TER-ND	*35:01		*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

101. 516-24/04 – including *Taq* polymerase, IFU-01
 101. 516-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **94N**

Lot-specific information

CELL LINE VALIDATION SHEET																					
HLA-B*15 SSP subtyping kit																					
					Well																
					Prod. No.:	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
						200967281	200967282	200967283	201203484	201184085	201184086	201184087	201203488	201203489	201203490	201184091	200967292	201203493	200967294	201184095	201203496
	IHWC cell line		B*																		
1	9001	SA	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*52:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02	*56:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101. 516-24/04 – including *Taq* polymerase, IFU-01
 101. 516-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **94N**

Lot-specific information
CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-B*15 SSP

Product number: **101.516-24/04 – including *Taq* pol.
 101.516-24u/04u – without *Taq* pol.
 94N**
 Lot number: **2015-January-01**
 Expiry date: **24 tests – Product No. 101.516-24/24u
 4 tests – Product No. 101.516-04/04u**
 Number of tests: **96**
 Number of wells per test:

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2009-672-01	33	2011-840-33	65	2008-499-65
2	2009-672-02	34	2008-499-34	66	2009-672-66
3	2008-499-03	35	2008-499-35	67	2011-840-67
4	2009-672-04	36	2009-672-36	68	2008-499-68
5	2008-499-05	37	2008-499-37	69	2008-499-69
6	2008-499-06	38	2008-499-38	70	2011-840-70
7	2009-672-07	39	2008-499-39	71	2011-840-71
8	2008-499-08	40	2009-672-40	72	2012-034-72
9	2012-034-09	41	2008-499-41	73	2012-034-73
10	2012-034-10	42	2008-499-42	74	2008-499-74
11	2012-034-11	43	2008-499-43	75	2011-840-75
12	2008-499-12	44	2009-672-44	76	2008-499-76
13	2009-672-13	45	2009-672-45	77	2008-499-77
14	2011-840-14	46	2008-499-46	78	2008-499-78
15	2008-499-15	47	2008-499-47	79	2012-034-79
16	2008-499-16	48	2008-499-48	80	2009-672-80
17	2008-499-17	49	2012-034-49	81	2009-672-81
18	2008-499-18	50	2012-034-50	82	2009-672-82
19	2008-499-19	51	2009-672-51	83	2009-672-83
20	2008-499-20	52	2012-034-52	84	2012-034-84
21	2009-672-21	53	2008-499-53	85	2011-840-85
22	2008-499-22	54	2011-840-54	86	2011-840-86
23	2008-499-23	55	2012-034-55	87	2011-840-87
24	2011-840-24	56	2012-034-56	88	2012-034-88
25	2008-499-25	57	2008-499-57	89	2012-034-89
26	2008-499-26	58	2008-499-58	90	2012-034-90
27	2008-499-27	59	2011-840-59	91	2011-840-91
28	2008-499-28	60	2012-034-60	92	2009-672-92
29	2008-499-29	61	2009-672-61	93	2012-034-93
30	2008-499-30	62	2008-499-62	94	2009-672-94
31	2008-499-31	63	2008-499-63	95	2011-840-95
32	2011-840-32	64	2008-499-64	96	2012-034-96

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **94N**

Lot-specific information

The specificity of each primer solution of the kit has been tested against 48 well characterized IHWC cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 4, 10, 11, 18, 24 to 27, 30 to 34, 36, 39, 49 to 65, 67 to 72, 74, 75, 77 to 80, 82 to 89 and 91 to 96 were available. The specificities of the primers in primer solutions 9, 10, 18, 24 to 27, 30, 31, 33, 34, 36, 49, 53, 59, 61, 65, 67, 70, 72, 85, 87, 91 and 94 to 96 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer.

In primer solutions 4, 32, 39, 50 to 52, 54 to 56, 62 to 64, 68, 69, 71, 77, 79, 82, 86, 88, 89, 92 and 93 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solutions 57, 58, 74, 75, 78, 80, 83 and 84 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer solutions 3, 12, 13, 19, 21, 24, 25, 33, 36, 59, 67, 70, 72, 85, 87, 90, 91 and 94 to 96 one or two 3'-primers were not possible to test.

In primer solutions 10, 14, 20, 30, 31, 59, 61, 72, 91, 94 and 96 one or two 5'-primers were not possible to test.

Additional primers in primer solutions 16, 40, 42, 60, 73 and 90 were tested by separately adding one additional 5'-primer or one additional 3'-primer.

Results: No false positive or false negative amplifications were obtained.

Date of approval: 2012-July-13

Approved by:

Production Quality Control

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **94N**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*15
Product number: 101.516-24/24u, -04/04u
Lot number: 94N

Intended use: HLA-B*15 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
Franzengatan 5
SE-112 51 Stockholm, Sweden
Phone: +46-8-717 88 27
Fax: +46-8-717 88 18

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at *Olerup* SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

Notified Body: Lloyd's Register Quality Assurance Limited, Hiramford, Middlesbrough Office Village, Siskin Drive, Coventry CV3 4FJ, United Kingdom.
(Notified Body number: 0088.)

Stockholm, Sweden
2012-July-13

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **94N**

Lot-specific information

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **94N**

Lot-specific information

101. 516-24/04 – including *Taq* polymerase, IFU-01
101. 516-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **94N**

Lot-specific information

ADDRESSES:

Manufacturer:

Olerup SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

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